Date: November 2018

Credit Hours: 1.5

Prerequisite(s): DLA 1209, DLA 1200, DLA 1205, DLA 1201, DLA 1203, DLA 1204, Must be taken concurrently with DLA 1202, DLA 2203, DLA 2204

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

Offered: Fall Spring Summer

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

CATALOG DESCRIPTION:
This course is designed to acquaint the student with the expanded functions such as, coronal polishing, placing sealants, applying topical anesthetic, application of topical fluorides, and monitoring the patient during Nitrous Oxide. The student will have developed the knowledge necessary to participate in Community Dentistry. This course will prepare the student to take the CPFDA exam and become a Certified Expanded Functions Dental Assistant.
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 appreciate 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 Coronal Polishing
   1.1 Identify the need for an oral prophylaxis
   1.2 Objective of coronal polishing
   1.3 Dental Deposits
   1.4 Dental plaque, dental calculus, material alba
   1.5 Composition
   1.6 Characteristics
   1.7 Significance
   1.8 Relationship to the disease
   1.9 Stages of formation
   1.10 Common locations
   1.11 Stains
   1.12 Formation
   1.13 Classes of stains
      Extrinsic
      Intrinsic
      Exogenous
      Endogenous
   1.14 Coronal Polishing Precautions
   1.15 Fulcrum
      a. Rules for location
      b. Rules for using
   1.16 Handpiece
      a. Speed
      b. Pressure
c. Control
1.17 Identify other precautions necessary while using the handpiece during Coronal Polishing.
   a. Adaptation of polishing cup
   b. Heat production
   c. Removal of tooth structure
   d. Aerosol production
   e. Demineralization
   f. Restorations
   g. Tooth sensitivity
   h. Implants

1.7 Abrasives and polishing agents
   Characteristics
   Selection
   Indications
   Contraindications
   Applications

1.8 Coronal Polishing technique

1.9 Armamentarium

1.10 Positioning (ergonomics)
   Patient
   Operator
   Equipment

1.11 Disclosing
   Purpose
   Types
   Application

1.12 Establish a pattern/sequence

1.13 Stroke (polishing motion)

1.14 Flossing

1.15 Rinsing

1.16 Evaluation

2. Demonstrate an understanding of a dental sealant.

2.1 Purpose of a sealant

2.2 Bacteria collection in pit and fissures

2.3 Dental caries

2.4 Patient education

2.5 Indications and contraindications for sealant application.
   Well-coalesced and uncoalesced teeth
   Presence of decay
   Under erupted teeth

2.6 Acid etching.
   The different types
   Application time
2.7 Sealant Material Classification
   Methods of curing
   Filled or unfilled
   Color
2.8 Sealant Material Application
   Armamentarium
   Preparation of tooth
   Application
   Post-operative care

3. Demonstrate a basic understanding of Topical Anesthetic.
   3.1 Patient education
   3.2 Patient medical history
   3.3 Patient preparation
   3.4 Armamentarium
   3.5 Classifications
      Types
      Agents
   3.6 Precautions and contraindications for use
   3.7 Indications for use
   3.8 Placement of the topical anesthetic

4. Demonstrate a working understanding of Topical Fluoride
   4.1 Basic information about fluoride
   4.2 Metabolism
   4.3 Fluoride in food and liquids
   4.4 Fluoride in medications and supplements
   4.5 Differences between topical and systemic fluoride
   4.6 Indications and contraindications for topical fluoride
   4.7 Benefits of topical fluoride
   4.8 Topical fluoride application
      Professional use
      Home use
      Determining appropriate method
   4.9 Preparation of teeth
   4.10 Armamentarium
   4.11 Fluoride preparations
      Sodium fluoride
      Acidulated phosphoric fluoride
      Stannous fluoride
      Varnish
   4.12 Adverse reactions
   4.13 Patient education
4.14 Care of fluoridated products
4.15 Post-treatment instructions
4.16 Frequency of fluoride treatment
4.17 Research paper and class presentation on fluoride and its application

5. **Demonstrate a basic understanding of Nitrous Oxide Monitoring**
   5.1 Patient considerations
   5.2 Patient medical history
   5.3 Patient consent
   5.4 Taking vital signs

6. **Oral Health Awareness**
   6.1 Community Health Project and Presentation
   6.2 Oral Hygiene Instruction

**MAPPING LEARNING OUTCOMES TO GENERAL EDUCATION GOALS**

<table>
<thead>
<tr>
<th>Goals</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Goal</td>
<td>4.15, 4.17, 6, 6.1, 6.2</td>
</tr>
<tr>
<td>To communicate successfully, both orally and in writing, to a variety of audiences.</td>
<td>4.15- Post-operative instructions to the patient after the application of fluoride</td>
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<tr>
<td></td>
<td>4.17- Research paper and class presentation on fluoride and its application</td>
</tr>
<tr>
<td></td>
<td>6- Oral Health Awareness</td>
</tr>
<tr>
<td></td>
<td>6.1- Community Health Project and presentation</td>
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<tr>
<td></td>
<td>6.1a- the student will be required to make a presentation at local grade schools or health fairs in regards to oral health</td>
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<tr>
<td></td>
<td>6.2- Oral Hygiene Instruction</td>
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<tr>
<td></td>
<td>6.2a- The student will be required to provide OHI on all patients before any expanded function procedures.</td>
</tr>
</tbody>
</table>
COURSE TOPICS AND CONTENT REQUIREMENTS:

1. Coronal Polishing
   a. Dental Deposit
      i. Calculus
      ii. Plaque
   b. Formation of dental deposits
   c. Locations of dental deposits
   d. Stains
      i. Intrinisc
      ii. Extrinsic
      iii. Endogeneous
      iv. Exogeneous
   e. Proper ergonomics
      i. Fulcrum
      ii. Handpiece
   f. Precautions
      i. Safety using handpiece
      1. Aerosols

2. Enamel Sealants
   a. Reasons for enamel sealants
      i. Indications
      ii. Contraindications
   b. Cavity classifications
   c. Sealant material selection
   d. Acid etching
      i. Precautions
   e. Sealant placement technique
      i. Armamentarium
   f. Light curing

3. Topical Anesthetic
   a. Patient medical history
      i. Contraindications
   b. Injection sites
      i. Innervation
   c. Armamentarium

4. Topical Fluoride
   a. Types
      i. Sodium fluoride
      ii. Acidulated phosphoric fluoride
      iii. Stannous fluoride
      iv. Varnish
   b. Application
      i. Home
      ii. Office
   c. Contraindications
   d. Post-op instructions
5. Nitrous Oxide Monitoring
   a. Patient consideration
      i. Patient medical history
      ii. Contraindications
      iii. Indications for use
      iv. Consent
      v. Vital signs
   b. Starting the flow of oxygen
   c. Levels of oxygen and nitrous

6. Oral Health Awareness
   a. Community health project and presentation
      i. Local grade schools
      ii. Health fairs
      iii. Communication to different audiences
   b. Oral hygiene instruction to patients of all ages

INSTRUCTIONAL METHODS:
- Lecture
- Classroom discussion
- Demonstration
- Laboratory Work
- Reading Assignments
- Blackboard
- Visual Aids
- Computers
- Research Papers
- Patient Education Projects
- Dental Health Month Presentations

INSTRUCTIONAL MATERIALS:

www.ADA.org


Models and charts
STUDENT REQUIREMENTS AND METHODS OF EVALUATION:
Reading assigned materials, note taking, and participation in classroom discussion and laboratory demonstrations is expected of students

Written examinations are used to evaluate student progress.

Hands on evaluations of a student’s competency.

Various projects will be assigned throughout the semester and must be completed in order to successfully complete the course.

Plaque checks using disclosing agents will be made on fellow students to evaluate personal oral hygiene.

A grade of "C" is required for graduation from the Dental Assisting Program. The following grading scale will be used as a guide in determining the final grade for this course:

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

OTHER REFERENCES
Cynthia A. Stegeman, RDH, MEd, RD, LD, CDE and Judi Ratliff Davis, MS, CNSD, RD, LD

Doni L. Bird, CDA, RDA, RDH, MA and Debbie S. Robinson, CDA, MS
## Course Competency/Assessment Methods Matrix

### DLA 2205-Expanded Functions

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>Direct</td>
<td>Indirect</td>
</tr>
</tbody>
</table>

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

- **Demonstrate a basic understanding of Coronal Polishing**
  - Direct
  - Indirect

- **Demonstrate an understanding of a Dental Sealant**
  - Direct
  - Indirect

- **Demonstrate a basic understanding of Topical Anesthetic**
  - Direct
  - Indirect

- **Demonstrate a working understanding of Topical Fluoride**
  - Direct
  - Indirect

- **Demonstrate a basic understanding of Nitrous Oxide**
  - Direct
  - Indirect

- **Demonstrate a working understanding of Oral Health Awareness**
  - Direct
  - Indirect