



ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: DLA 2205 Expanded Functions I

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:

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

- Contraindications
- Precautions
- 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

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

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

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. Intrinsic
 - 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

- e. Frequency of use
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:

Text: *Delmar's Dental Assisting: A Comprehensive Approach*, Fifth Edition, Phinney/Halstead, Thompson Delmar Learning, 2018.

www.ADA.org

Hatrick, Carol D, W. Stephan Eakle and William F Bird. *Dental Materials Clinical applications for Dental Assistants and Dental Hygienists*, Third edition, Hatrick Carol . St. Louis: Saunders Elsevier, 2016

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

The Dental Hygienist's Guide to Nutritional Care, 4th Edition, 2015

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

Modern Dental Assisting - Elsevier eBook on VitalSource, 11th Edition, 2015

Doni L. Bird, CDA, RDA, RDH, MA and Debbie S. Robinson, CDA, MS

Course Competency/Assessment Methods Matrix

DLA 2205- Expanded Functions		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	Capstone Projects	Comprehensive Written Exit	Course Embedded	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills)	Oral Exit Interviews	Accreditation	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	D	I	I	I	I	D	D					
Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.																																
Demonstrate a basic understanding of Coronal Polising				X	X			X	X	X		X	X		X			X		X								X	X		X	X
Demonstrate an understanding of a Dental Sealant				X	X			X	X	X		X	X		X			X		X								X	X		X	X
Demonstrate a basic understanding of Topical Anesthetic				X	X			X	X	X		X	X		X			X		X								X	X		X	X
Demonstrate a working understanding of Topical Fluoride				X	X			X	X	X		X	X		X			X		X								X	X		X	X
Demonstrate a basic understanding of Nitrous Oxide				X	X			X	X	X		X	X		X			X		X							X	X		X	X	
Demonstrate a working understanding of Oral Health Awareness		X	X	X																											X	