



ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: DLA 2203 Chairside Assisting II

Date: Spring 2020

Credit Hours: 3

Prerequisite(s): All first semester DLA courses with a C or higher.

Delivery Method:

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

Offered: **Fall** **Spring** **Summer**

CATALOG DESCRIPTION:

This course is a continuation of DLA 1203, Chairside Assisting I. It will require the student to utilize basic chairside assisting skills and principles of four-handed sit-down dentistry, learned in DLA 1203, during dental procedures. Specialty procedures and instrumentation in the areas of restorative, prosthetic, orthodontic, pediatric dentistry, oral surgery, and endodontics will be introduced and practiced. Dental terminology and materials are integrated throughout this course and current OSHA and CDC guidelines for infection control and handling of hazardous materials will be followed.

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 Amalgam Restorative Materials and Procedures.
 - 1.1. Explain the properties of dental amalgam.
 - 1.2. Explain the composition of dental amalgam.
 - 1.3. Explain the manipulation of dental amalgam.
 - 1.4. Identify the armamentarium and the steps of an amalgam procedure
2. Demonstrate a basic understanding of Composite Restorative Materials and Procedures.
 - 2.1. Explain the properties of composite resin.
 - 2.2. Explain the composition of composite resin.
 - 2.3. Explain the manipulation of various composite resins.
 - 2.4. Identify the armamentarium and the steps of a composite restoration.
3. Demonstrate a basic understanding of fixed prosthetic procedures including the armamentarium necessary and the role of the dental assistant.
 - 3.1. Define the scope of fixed prosthodontics.
 - 3.2. Describe the role of the dental assistant in all phases of fixed prosthodontic treatment.
 - 3.3. Explain the dentist's considerations when recommending various prostheses to a patient.
 - 3.4. Describe various types of fixed prostheses and their functions.
 - 3.5. Describe dental materials used in fixed prostheses.
 - 3.6. Identify the general steps for the procedure for fixed prostheses.
 - 3.7. Explain the involvement of the laboratory technician in the fabrication of fixed prostheses.
 - 3.8. Explain the techniques for retaining the prosthesis when there is little or no crown on the tooth, including core buildups, pins, and posts.
 - 3.9. Explain the techniques for maintaining fixed prostheses.
4. Demonstrate a basic understanding of removable prosthodontics and the role of the dental assistant.
 - 4.1. Define removable prostheses and list the reasons for using them.
 - 4.2. Describe considerations about the patient related to removable prosthetic treatment.

- 4.3. Explain the dental assistant's role in removable prosthetic treatment.
- 4.4. Outline the steps of the diagnostic appointment and list the materials needed.
- 4.5. Describe the consultation appointment and the materials required for case presentation.
- 4.6. Describe the advantages and disadvantages of the partial denture, its components, and the appointment schedule.
- 4.7. List the home care instructions for a partial denture.
- 4.8. Describe the complete denture, considerations about the patient, and the appointment schedule.
- 4.9. Discuss the appointment sequence, the advantages & disadvantages, and the construction of an immediate denture.
- 4.10. List the home care instructions for a complete denture.
- 4.11. Explain the types and steps of denture relining procedures.
- 4.12. Describe the procedure for a denture repair.
- 4.13. List the steps to polish a removable prosthetic appliance.
- 4.14. Explain the overdenture and the advantages and disadvantages related to it
5. Demonstrate a basic understanding of Dental Implants, including the armamentarium necessary and the role of the dental assistant.
 - 5.1. Explain the considerations for dental implants, including patient preparedness.
 - 5.2. List the indications and contraindications for dental implants.
 - 5.3. List and describe the types of dental implants and explain the surgical procedures for placing the implants.
 - 5.4. Describe the dental implant surgery and identify the instruments and equipment.
 - 5.5. Explain the steps in the treatment sequence for dental implants.
 - 5.6. Discuss postoperative homecare and maintenance for the patient with dental implants.
6. Demonstrate a basic understanding of endodontic procedures including the armamentarium necessary and the role of the dental assistant.
 - 6.1. Define endodontics and describe what an endodontist does.
 - 6.2. Describe pulpal and periapical disease.
 - 6.3. Identify diagnostic procedures.
 - 6.4. Identify instruments used in endodontic procedures and describe their functions.
 - 6.5. Identify materials used in endodontics and describe their functions.
 - 6.6. Describe endodontic procedures and the responsibilities of the dental assistant.
 - 6.7. Describe endodontic retreatment.
 - 6.8. Explain surgical endodontic procedures and the instruments used.
7. Demonstrate a basic understanding of oral and maxillofacial surgery procedures including the armamentarium necessary and the role of the dental assistant.
 - 7.1. Describe the scope of oral and maxillofacial surgery.
 - 7.2. Identify the surgical instruments used in various types of surgery and describe their functions.
 - 7.3. Explain the aseptic procedures followed in the oral surgeon's office.
 - 7.4. Describe evaluation procedures for new patients.
 - 7.5. Describe how to prepare the patient for surgical treatment.
 - 7.6. Explain surgical procedures, including tray setups and assisting responsibilities.
 - 7.7. List and describe cancer and oral abnormalities detection.
 - 7.8. List and describe biopsy techniques.
 - 7.9. List the postoperative instructions given to patients.
 - 7.10. Explain postsurgical complications.
 - 7.11. Describe temporomandibular joint (TMJ) disease.
 - 7.12. Explain the oral surgeon's relationship with the hospital.
 - 7.13. Explain the function of sutures and when they are placed

- 7.14. List the equipment and supplies needed for suture removal.
- 7.15. Determine and identify the location and number of sutures and how to evaluate the healing process.
- 7.16. Identify the following suture patterns: simple, continuous simple, sling, continuous sling, horizontal, and vertical mattress
- 7.17. List the basic criteria for suture removal.
- 7.18. Explain the steps of removal for identified suture patterns.
8. Demonstrate a basic understanding of orthodontic procedures including the armamentarium necessary and the role of the dental assistant.
 - 8.1. Define orthodontics and describe the orthodontic setting.
 - 8.2. Define the role of the dental assistant in an orthodontic setting.
 - 8.3. Define and describe occlusion and malocclusion.
 - 8.4. Identify the causes of malocclusion.
 - 8.5. Describe preventive, interceptive, and corrective orthodontics.
 - 8.6. Explain the process of tooth movement.
 - 8.7. Describe the preorthodontic appointment for diagnostic records.
 - 8.8. Describe the consultation appointment and the roles of the assistant, patient, and orthodontist.
 - 8.9. Differentiate between fixed and removable appliances.
 - 8.10. Identify and describe the function of basic orthodontic instruments.
 - 8.11. Describe the stages of orthodontic treatment.
 - 8.12. Explain the procedure for removing orthodontic appliances and how the teeth are kept in position after appliance removal
9. Demonstrate a basic understanding of Pediatric Dentistry and its procedures including the armamentarium necessary and the role of the dental assistant.
 - 9.1. Define pediatric dentistry as a specialty.
 - 9.2. Describe the pediatric office and team members.
 - 9.3. Explain the common behavioral characteristics of children of various ages
 - 9.4. Describe child behavior management techniques.
 - 9.5. Explain the role of the parent or guardian in pediatric dentistry.
 - 9.6. Identify common procedures in pediatric dentistry, including preventive procedures, diet, restorative procedures, preventive and interceptive orthodontic treatment, and restorative procedures.
 - 9.7. Identify the equipment unique to pediatric dentistry.
 - 9.8. Explain common emergencies in pediatric dentistry and the treatment for these emergencies.
 - 9.9. Identify the signs of child abuse and the procedure for reporting suspected child abuse cases

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 develop interpersonal capacity	1.4, 2.4, 3.3, 4.4, 4.9, 5.6, 6.10, 7.10, 8.1

COURSE TOPICS AND CONTENT REQUIREMENTS:

- I. Dental Amalgam
 - A. Composition
 - B. Types
 - C. Mercury used
 - D. Forms of dental alloy
 - E. Amalgam properties
 - F. Amalgam manipulation
 - G. Amalgam bonding
 - H. Amalgam procedure
- II. Composite Resin
 - A. Composition
 - B. Properties
 - C. Manipulation
 - D. Modifications
 - E. Types
 - F. Composite Procedure
- III. Fixed Prosthodontics
 - A. Role of the dental assistant
 - B. Patient considerations
 - i. Case presentations
 - C. Types of fixed prostheses
 - i. Crowns
 - ii. Inlays and onlays
 - iii. Bridges
 - iv. Veneers
 - D. Types of materials used for fixed prostheses
 - i. Gold casting alloys
 - ii. Tooth-colored casts
 - iii. Restorations
 - E. General steps in fixed prosthesis procedures
 - F. Retention techniques
 - i. Core build ups
 - ii. Retention pins
 - iii. Post-retained cores
 - iv. Implant retainer
 - v. Prostheses
 - G. Maintenance
- IV. Removable Prosthodontics

- A. Patient considerations
- B. Dental assistants role
- C. Diagnosis and treatment planning
 - i. Consultation appointment
- D. Removable partial denture
 - i. Advantages
 - ii. Considerations
 - iii. Components
 - iv. Procedure
- E. Home care instructions for patient denture
- F. Complete denture
 - i. Considerations
 - ii. Necessities for successful denture tx
 - iii. Components
 - iv. Examination an diagnosis
 - v. Consultation for oral surgery
 - vi. Final impressions
 - vii. Jaw relationship appointments
 - viii. Denture construction appointments
 - ix. Try-in appointments
 - x. Final lab procedures
 - xi. Denture delivery
 - xii. Denture adjustment
- G. Denture reline
- H. Denture repair
- I. Polishing removable prosthesis
- J. Overdenture
 - i. Endosseous implants
- V. Endodontics
 - A. Endo team
 - B. Progress of pulpal and periapical diseases
 - i. Pulpitis
 - ii. Periapical disease
 - C. Endodontic diagnosis
 - i. Medical history
 - ii. Dental history
 - iii. Clinical examination and pulp testing
 - iv. Treatment plan
 - D. Endodontic instruments
 - i. Characteristics of intracanal instruments
 - ii. Barbed broaches
 - iii. Files
 - iv. Rotary intracanal
 - v. Endo organizers
 - vi. Rubber stops
 - vii. Gates-glidden drills
 - viii. Peeso reamers
 - ix. Lentulo spirals
 - x. Endodontic spoon
 - xi. Explorer

- xii. Spreaders, pluggers, and glick #1
 - E. Endodontic materials
 - i. Absorbent paper points
 - ii. Gutta percha
 - iii. Irrigation solutions
 - iv. Root canal disinfecting, cleaning and lubricating
 - v. Root canal sealers/cements
 - F. Equipment
 - G. Sterilization procedures
 - H. Endodontic procedures
 - i. Root canal treatment
 - ii. Endo retreat
 - iii. Pulpectomy
 - iv. Pulpotomy
 - I. Surgical endodontics
 - i. Apicoectomy and apical curettage
 - ii. Root amputation
 - iii. Hemisection
 - iv. Apexification
 - v. apexogenesis
- VI. Oral and Maxillofacial Surgery
 - A. Office
 - B. Team
 - C. Oral surgery instruments
 - i. Scalpel
 - ii. Retractor
 - iii. Mouth prop
 - iv. Hemostat
 - v. Needle holder
 - vi. Surgical scissors
 - vii. Surgical aspirating tops
 - viii. Surgical curettes
 - ix. Surgical chisel and mallet
 - x. Rongeurs
 - xi. Bone file
 - xii. Periosteal elevator
 - xiii. Elevator
 - xiv. Forceps
 - xv. Surgical rotary instruments
 - D. Asepsis
 - E. Patient considerations
 - F. Patient preparation
 - G. Oral surgery procedures
 - i. Routine or uncomplicated
 - ii. Multiple extractions and alveoplasty
 - iii. Impacted teeth
 - iv. Cancer and oral abnormalities detection
 - v. Biopsy procedures
 - H. Postoperative care of the patient
 - I. Postsurgical complications

- i. Alveolitis
 - ii. Paresthesia
 - J. TMD
 - i. Signs and symptoms
 - ii. Diagnosis
 - iii. Treatment options
 - K. Hospital Dentistry
 - i. Orofacial trauma patients
 - L. Advanced chairside
 - i. Suture removal
 - ii. Types of suture patterns
 - iii. Criteria for removal
 - iv. Post-suture removal
- VII. Orthodontics
 - A. Ortho team
 - B. Occlusion and malocclusion
 - i. Normal
 - ii. Malocclusion
 - iii. Malposition of teeth
 - C. Etiology of malocclusion
 - D. Types of orthodontic treatments
 - i. Preventative and interceptive orthodontics
 - ii. Corrective orthodontics
 - E. Process of tooth movement
 - F. Preorthodontic treatment
 - i. Diagnosis and records
 - ii. Medical-dental history
 - iii. Clinical examination
 - iv. Radiographs
 - v. Photographs
 - vi. Study models
 - G. Consultation appointment
 - H. Orthodontic appliances
 - i. Fixed
 - ii. Removable
 - iii. Aesthetic short-term
 - I. 3D orthodontic imaging
 - J. Orthodontic instruments
 - K. Orthodontic treatment
 - i. Separators
 - ii. Selection of ortho bands
 - iii. Band cementation
 - iv. Direct bonding brackets
 - v. Placement of arch wire
 - vi. Periodic office visits for adjustments
 - L. Completion appointment
- VIII. Pediatric Dentistry
 - A. Pediatric team
 - B. Dental assistants role
 - C. Behavioral characteristics of children at various ages

- D. Patient management
 - i. Behavior assessment
 - ii. Behavior management techniques
- E. Patients with special healthcare needs
- F. The role of the parent or guardian
- G. Procedures in pediatric dentistry
 - i. The exam
 - ii. Preventative procedures
 - iii. Restorative
 - iv. Dental dam
 - v. Pulp therapy in primary and young permanent teeth
 - vi. Stainless steel crowns
- H. Emergency treatment for traumatic injuries
 - i. Fractured teeth
 - ii. Traumatic intrusion
 - iii. Displaced teeth
 - iv. Avulsed teeth
- I. Child abuse
 - i. The law and reporting

INSTRUCTIONAL METHODS:

- Lecture
- Classroom Discussion
- Assignments
- Demonstration
- Visual aids - videos, charts & models
- Computers - tutorial software, research
- Exams & quizzes
- Laboratory practice of skills/ Role playing
- Guest lecturers/office observations

INSTRUCTIONAL MATERIALS:

- Textbooks:
 - Dental Assisting: A Comprehensive Approach, Phinney & Halstead, 5th Edition, Delmar, 2018.
 - Dental Assisting: A Comprehensive Approach WORKBOOK, Phinney & Halstead, 5th Edition, Delmar, 2018.
 - Dental Instruments: A Pocket Guide, Boyd, 6th Edition, 2018
- YouTube

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

Lecture: Reading assigned materials, note taking and participation in classroom discussion is expected.

The Contents of the following categories are calculated equally, and will be explained in more detail in the course syllabus.

- (29) Attendance: 10%
- (12) Homework: 20%
- (6) Quizzes: 20%
- (6) Exams: 20%
- (2) Office Observations and Professionalism: 10%
- (1) Final Exam: 20%

Laboratory: Students are required to wear white lab coats (preclinical) or black uniforms (clinical) in the laboratory and follow the posted rules.

All skills must be successfully completed by the student to pass the lab portion, and for continuation in the Dental Assisting Program.

Quizzes will be given to evaluate student comprehension.

Laboratory performance and professionalism notes will be kept by the instructor for each student. These notes, skills evaluations, and quiz grades will be used to determine the students' final laboratory grade.

Final Course Grade: A grade of a 'C' is required in BOTH the lecture portion and in the laboratory portion of this course for graduation from the Dental Assisting Program. If a student does not receive a 'C' in one portion of the course, their grade will be posted as a 'D' and the student must retake the course the following year. The students' final grade will be calculated as follows:

75% Lecture grade
25% Laboratory grade

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						
Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.																																
Demonstrate a basic understanding of Dental Amalgam and its procedures including the armamentarium necessary and the role of the dental assistant (DA).				X			X	X			X	X		X					X			X	X	X	X	X	X	X	X			X
Demonstrate a basic understanding of Composite Resin and its procedures including the armamentarium necessary and the role of the DA.				X			X	X			X	X		X					X			X	X	X	X	X	X	X	X			X
Demonstrate a basic understanding of Fixed Prosthodontics and its procedures including the armamentarium necessary and the role of the DA.				X			X	X			X	X		X					X			X	X	X	X	X	X	X	X			X

Demonstrate a basic understanding of Removable Prosthodontics and its procedures including the armamentarium necessary and the role of the DA.				X			X	X			X	X	X			X			X	X	X	X	X	X	X	X		X	
Demonstrate a basic understanding of Dental Implants, including the armamentarium necessary and the role of the DA.				X			X	X			X	X	X			X			X	X	X	X	X	X	X	X	X		X
Demonstrate a basic understanding of Endodontics and its procedures including the armamentarium necessary and the role of the DA.				X			X	X			X	X	X			X			X	X	X	X	X	X	X	X	X		X
Demonstrate a basic understanding of oral surgery procedures including the armamentarium necessary and the role of the DA.				X			X	X			X	X	X			X			X	X	X	X	X	X	X	X	X		X
Demonstrate a basic understanding of orthodontic procedures including the armamentarium necessary and the role of the DA.				X			X	X			X	X	X			X			X	X	X	X	X	X	X	X	X		X
Demonstrate a basic understanding of pediatric dentistry including the armamentarium necessary and the role of the DA.				X			X	X			X	X	X			X			X	X	X	X	X	X	X	X	X		X