Western Technical College

31508308 Dental Chairside Advanced

Course Outcome Summary

Course Information

Description
Prepares dental auxiliary students to operate x-ray units and expose bitewing, periapical, extra oral, and occlusal radiographs. Emphasis is placed on protection against x-ray hazards. Students also process, mount, and evaluate radiographs for diagnostic value. In this course students demonstrate competency on a manikin. In addition, students expose bitewing radiographs on a peer, role play patient.

Career Cluster
Health Science

Instructional Level
Technical Diploma Courses

Total Credits
5

Textbooks


Learner Supplies


Utility Gloves. Vendor: To be discussed in class. Required.

Lab Coat. Vendor: To be discussed in class. Required.

Utility Gloves. Quantity: 1. Source: Dental Supply Company. Description: Will be ordered once size is determined in class. Required.

Student Program Name Pin. Quantity: 1. Source: Campus Bookstore. Description: Use first name and initial of last name. Required.

Program Uniform. Quantity: 2. Source: Uniform Store. Description: Detailed information will be provided to student at program orientation. Required.

Success Abilities

1. Apply mathematical concepts.

2. Demonstrate ability to think critically.

3. Demonstrate ability to value self and work ethically with others in a diverse population.

4. Make decisions that incorporate the importance of sustainability.

5. Transfer social and natural science theories into practical applications.
6. Use effective communication skills.

7. Use technology effectively.

Course Competencies

1. Adapt dental assisting techniques when assisting with pediatric dentistry

   Assessment Strategies
   1.1. in a skill demonstration in which you fabricate a stainless steel crown
   1.2. in a skill demonstration in which you assist with a pulpotomy
   1.3. in a clinical setting

   Criteria

   You will know you are successful when:
   1.1. you select the correct armamentarium
   1.2. you position yourself and manikin correctly
   1.3. you anticipate procedural steps
   1.4. you perform all steps in the right order
   1.5. you provide post operative instructions
   1.6. you communicate professionally with the patient
   1.7. you employ safety precautions
   1.8. you utilize infection control protocol
   1.9. you wear personal protective equipment
   1.10. you adapt stainless steel crown to the prepped tooth.
   1.11. you maintain patient’s records to show accurate, up-to-date documentation of treatment and services.

   Learning Objectives
   1.a. Use dental terminology related to pediatrics appropriately
   1.b. Describe the scope of pediatric dentistry
   1.c. Identify oral pathology as it relates to pediatric dentistry
   1.d. Describe the role of a pediatric assistant
   1.e. Differentiate among various pediatric procedures
   1.f. Explain the urgent care treatment for pediatric emergencies
   1.g. Identify the armamentarium and materials used in pediatric procedures
   1.h. Describe how to prepare a pediatric patient for treatment
   1.i. Explain the role of the parent/guardian in pediatric dentistry
   1.j. Describe behavior management techniques of the pediatric patient
   1.k. Identify the indications for a stainless steel crown
   1.l. Sequence the steps in fabricating a stainless steel crown
   1.m. Sequence the steps in various pediatric procedures
   1.n. List post-operative instructions following a pediatric procedure
   1.o. Identify the ethical responsibility of noted child abuse
   1.p. Select appropriate communication skills throughout the dental procedure
   1.q. Determine safety procedures to follow during pediatric procedures
   1.r. Identify the personal protective equipment required
   1.s. Identify appropriate aseptic techniques during pediatric procedures

2. Evaluate nutrition and its relationship to total health

   Assessment Strategies
   2.1. in a completed diet assessment

   Criteria

   Your performance will be successful when:
   2.1. you record the diet intake of food choices
   2.2. you compare diet to US government standards
   2.3. you complete a dietary analysis that shows the relationship between the food diary and total health
   2.4. you identify strengths and weaknesses of the diet

3. Assist with a sealant procedure
Assessment Strategies

3.1. in a skill demonstration in which you assist with a sealant procedure on a manikin
3.2. in a clinical setting

Criteria

You will know you are successful when:

3.1. you select the correct armamentarium
3.2. you position yourself and patient correctly
3.3. you anticipate procedural steps
3.4. you perform all steps in the right order
3.5. you provide post operative instructions
3.6. you communicate professionally with the patient
3.7. you employ safety precautions
3.8. you utilize infection control protocol
3.9. you wear personal protective equipment
3.10. you maintain patient's records to show accurate, up-to-date documentation of treatment and services

Learning Objectives

3.a. Use dental terminology related to sealants appropriately
3.b. Explain the purpose of sealants
3.c. Describe the responsibility of the assistant in a sealant procedure
3.d. Differentiate among the types of sealant materials
3.e. Identify the armamentarium and materials used in sealant procedures
3.f. Describe how to prepare a patient for sealants
3.g. Sequence the steps in various sealant procedures
3.h. Select appropriate communication skills throughout the dental procedure
3.i. Determine safety procedures to follow during sealant procedures
3.j. Identify the personal protective equipment required
3.k. Identify appropriate aseptic techniques during sealant procedures

4. Perform coronal polishing procedure

Assessment Strategies

4.1. in a skill demonstration in which you perform coronal polishing on a manikin/role-play peer or patient
4.2. in a clinical setting

Criteria

You will know you are successful when:

4.1. you select the correct armamentarium
4.2. you position yourself and patient correctly
4.3. you perform all steps in the right order
4.4. you communicate professionally with the patient
4.5. you employ safety precautions when using handpiece
4.6. you utilize infection control protocol
4.7. you wear personal protective equipment
4.8. you maintain patient's records to show accurate, up-to-date documentation of treatment and services

Learning Objectives

4.a. Use dental terminology related to coronal polishing appropriately
4.b. Identify the indications for coronal polishing
4.c. Differentiate among the types of abrasives
4.d. Identify the concepts of fulcrum, grasp, speed, and pressure in the use of a low-speed handpiece
4.e. Compare direct and indirect vision techniques when coronal polishing
4.f. Identify the armamentarium and materials used during coronal polishing
4.g. Describe how to prepare a patient for coronal polishing
4.h. Sequence the steps in a coronal polishing procedure
4.i. Select appropriate communication skills throughout the dental procedure
4.j. Determine safety procedures to follow during coronal polishing
4.k. Identify the personal protective equipment required
4.l. Identify appropriate aseptic techniques during coronal polishing

5. Apply fluoride agents
Assessment Strategies

5.1. in a skill demonstration in which you apply fluoride agents on a role-play peer or patient
5.2. in a clinical setting

Criteria

You will know you are successful when:

5.1. you identify that there is a consent form
5.2. you select the correct armamentarium
5.3. you position yourself and patient correctly
5.4. you perform all steps in the right order
5.5. you provide post operative instructions
5.6. you communicate professionally with the patient
5.7. you employ safety precautions
5.8. you utilize infection control protocol
5.9. you wear personal protective equipment
5.10. you maintain patient’s records to show accurate, up-to-date documentation of treatment and services.

Learning Objectives

5.a. Use dental terminology related to fluoride appropriately
5.b. Describe the effectiveness of fluoride on teeth
5.c. Identify the indications for applying fluoride agents
5.d. Differentiate among the types of fluoride
5.e. Differentiate among the techniques of fluoride application
5.f. Identify the armamentarium and materials used during applying fluoride
5.g. Describe how to prepare a patient for a fluoride application
5.h. Sequence the steps in a fluoride application procedure
5.i. Select appropriate communication skills throughout the dental procedure
5.j. Determine safety procedures to follow during fluoride application
5.k. Identify the personal protective equipment required
5.l. Identify appropriate aseptic techniques during fluoride application

6. Apply topical anesthetic

Assessment Strategies

6.1. in a skill demonstration in which you apply topical anesthetic on a manikin/role play peer
6.2. in a clinical/lab setting

Criteria

You will know you are successful when:

6.1. you select the correct armamentarium
6.2. you position yourself and manikin correctly
6.3. you perform all steps in the right order
6.4. you communicate professionally with the patient
6.5. you employ safety precautions
6.6. you utilize infection control protocol
6.7. you wear personal protective equipment
6.8. you maintain patient’s records to show accurate, up-to-date documentation of treatment and services.

Learning Objectives

6.a. Use dental terminology related to topical anesthetic appropriately
6.b. Differentiate among the types of topical anesthetic and their use in dentistry
6.c. Identify the Trigeminal nerve and the branches
6.d. Identify the injection sites for local anesthetic
6.e. Sequence the steps in applying topical anesthetic
6.f. Identify the armamentarium and materials used in applying topical anesthetic
6.g. Select appropriate communication skills throughout the dental procedure
6.h. Determine safety procedures to follow during application of topical anesthetic
6.i. Identify the personal protective equipment required
6.j. Identify appropriate aseptic techniques during application of topical anesthetic

7. Position dental dam

Assessment Strategies

7.1. by completing a skill demonstration in which you position a dental dam on a manikin/role play peer
7.2. in a clinical setting

Criteria

You will know you are successful when:

7.1. you select correct armamentarium
7.2. you position yourself and manikin/role play peer correctly
7.3. you prepare the dental dam according to operative field
7.4. you position and ligate clamp and frame
7.5. you maintain a dry operative field
7.6. you remove dental dam
7.7. you perform all steps in the right order
7.8. you communicate professionally with the patient
7.9. you employ safety precautions
7.10. you utilize infection control protocol
7.11. you wear personal protective equipment

Learning Objectives
7.a. Use dental terminology related to dental dam appropriately
7.b. Explain the purpose of a dental dam
7.c. Identify the armamentarium and materials used in positioning the dental dam
7.d. Describe the various operative fields of exposure
7.e. Sequence the steps in preparing, placing and removing the dental dam
7.f. Select appropriate communication skills throughout the dental procedure
7.g. Determine safety procedures to follow during placement and removal of dental dam
7.h. Identify the personal protective equipment required
7.i. Identify appropriate aseptic techniques during placement and removal of dental dam

8. Adapting dental assisting techniques when assisting during orthodontics

Assessment Strategies
8.1. in a skill demonstration in which you assist with orthodontic treatment using a manikin
8.2. in a clinical setting

Criteria

You will know you are successful when:

8.1. you select the correct armamentarium
8.2. you position yourself and manikin correctly
8.3. you anticipate procedural steps
8.4. you perform all steps in the right order
8.5. you provide post-operative instructions
8.6. you communicate professionally with the patient
8.7. you employ safety precautions
8.8. you utilize infection control protocol
8.9. you wear personal protective equipment
8.10. you maintain patient's records to show accurate, up-to-date documentation of treatment and services.

Learning Objectives
8.a. Use dental terminology related to orthodontics appropriately
8.b. Describe the scope of orthodontics
8.c. Identify oral pathology as it relates to orthodontics
8.d. Identify the causes of malocclusion
8.e. Review Angle's Classification of Malocclusion
8.f. Describe preventive, interceptive, and corrective phases of orthodontic treatment
8.g. Describe the principles of tooth movement
8.h. Describe the assistants role in diagnostic records and consultation appointments
8.i. Differentiate between fixed and removable orthodontic appliances
8.j. Describe the assistants role during various orthodontic treatment procedures
8.k. Identify orthodontic instruments according to function
8.l. Identify the armamentarium and materials used in orthodontic procedures
8.m. Describe how to prepare a patient for orthodontic treatment
8.n. Sequence the steps in various orthodontic treatment procedures
8.o. Identify postoperative complications
8.p. List post-operative instructions given to a patient following an orthodontic procedure
8.q. Select appropriate communication skills throughout the dental procedure
8.r. Determine safety procedures to follow during orthodontic procedures
8.s. Identify the personal protective equipment required
8.t. Identify appropriate aseptic techniques during orthodontic procedures

9. Adapt dental assisting techniques when assisting with oral maxillofacial surgery

Assessment Strategies
9.1. in a skill demonstration in which you assist with a simulated surgical procedure using a manikin
9.2. in a skill demonstration in which you trim and remove sutures on a manikin/role-play peer
9.3. in a clinical setting

Criteria
You will know you are successful when:
9.1. you select the correct armamentarium
9.2. you position yourself and manikin/role play peer correctly
9.3. you anticipate procedural steps
9.4. you perform all steps in the right order
9.5. you provide post operative instructions
9.6. you communicate professionally with the patient
9.7. you employ safety precautions
9.8. you utilize infection control protocol
9.9. you wear personal protective equipment
9.10. you maintain patient's records to show accurate, up-to-date documentation of treatment and services.

Learning Objectives
9.a. Use dental terminology related to oral surgery appropriately
9.b. Describe the scope of oral and maxillofacial surgery
9.c. Identify oral pathology as it relates to oral and maxillofacial surgery
9.d. Describe the role of an oral surgery assistant
9.e. Identify oral surgery instruments according to function
9.f. Differentiate among various surgical procedures
9.g. Identify the armamentarium and materials used in oral surgery procedures
9.h. Describe how to prepare a patient for surgical treatment
9.i. Sequence the steps in various oral surgery procedures
9.j. Identify postsurgical complications
9.k. List post-operative instructions given to a patient following a surgical procedure
9.l. Explain the types and function of sutures
9.m. Identify the armamentarium and materials used for suture removal
9.n. Sequence the steps in suture removal
9.o. List post-operative patient care
9.p. Select appropriate communication skills throughout the dental procedure
9.q. Determine safety procedures to follow during oral surgery procedures
9.r. Identify the personal protective equipment required
9.s. Identify appropriate aseptic techniques during oral surgery procedures

10. Characterize pharmacological agents commonly used in dentistry

Assessment Strategies
10.1. by creating a chart classifying types of pharmacological agents commonly used in dentistry

Criteria
You will know you are successful when:
10.1. you chart indications and contraindications of the pharmacological agents.
10.2. you chart the action of the pharmacological agents.
10.3. you chart information in an organized manner.
10.4. chart evidences correct grammar, punctuation, and spelling

Learning Objectives
10.a. Use dental terminology related to drugs used in dentistry appropriately
10.b. Identify the sources of accurate drug information
10.c. Classify drugs used in dentistry according to their use
10.d. Differentiate among the routes of drug administration
10.e. Explain how drug dosage is determined
10.f. Describe the reaction and effects of drugs
10.g. Identify potential contraindications for prescribed medications

11. Prepare a prescription for a dentist's signature
Assessment Strategies

11.1. given a scenario and a completed medical history
11.2. by preparing a prescription form for a dentist to sign
11.3. in a clinic/lab setting

Criteria

You will know you are successful when:

11.1. you accurately record patient information onto a prescription form
11.2. you copy medication information onto the prescription as indicated by the dentist
11.3. you document and duplicate copy of the prescription in the patient's record
11.4. you spell information on the prescription correctly.
11.5. you write prescription in ink and can be photocopied.

Learning Objectives

11.a. Use dental terminology related to drugs used in dentistry appropriately
11.b. Identify the sources of accurate drug information
11.c. Describe the parts of a written prescription
11.d. Cross reference the English meanings of the Latin abbreviations used for prescriptions
11.e. Identify the method of documentation of a prescription in a patient record
11.f. Select appropriate communication skills with the dentist necessary to prepare a prescription
11.g. Identify appropriate aseptic techniques during preparation of a prescription

12. Reinforce a dental prescription for a patient

Assessment Strategies

12.1. by reviewing a prescription with a role play peer in a scenario

Criteria

You will know you are successful when:

12.1. you clarify the prescription
12.2. you answer any questions a patient may have on a given prescription
12.3. you communicate professionally with patient
12.4. you maintain patient's records to show accurate, up-to-date documentation of treatment and services.

Learning Objectives

12.a. Use dental terminology related to prescriptions appropriately
12.b. Interpret the English meanings of the Latin abbreviations used for prescriptions
12.c. Interpret a prescription into lay terminology
12.d. Select appropriate communication skills when explaining a prescription to a patient
12.e. Identify appropriate aseptic techniques when explaining a prescription to a patient

13. Adapt dental assisting techniques when assisting during endodontics

Assessment Strategies

13.1. in a skill demonstration in which you assist with endodontic treatment using a manikin
13.2. by performing vitality testing
13.3. in a clinical setting

Criteria

You will know you are successful when:

13.1. you select the correct armamentarium
13.2. you position yourself and manikin/patient correctly
13.3. you anticipate procedural steps
13.4. you perform all steps in the right order
13.5. you provide post-operative instructions
13.6. you communicate professionally with the patient
13.7. you employ safety precautions
13.8. you utilize infection control protocol
13.9. you wear personal protective equipment
13.10. you maintain patient's records to show accurate, up-to-date documentation of treatment and services.

Learning Objectives

13.a. Use dental terminology related to endodontics appropriately
13.b. Describe the scope of endodontics
13.c. Identify oral pathology as it relates to endodontics
13.d. Describe diagnostics tests used in endodontics
13.e. Describe the role of an endodontic assistant
13.f. Identify endodontic instruments according to function
13.g. Differentiate among various endodontic procedures
13.h. Identify the armamentarium and materials used in endodontics
13.i. Sequence the steps in various endodontic procedures
13.j. Explain the importance of radiography in endodontics
13.k. Identify post-operative complications
13.l. List post-operative instructions given to a patient following an endodontic procedure
13.m. Select appropriate communication skills throughout the dental procedure
13.n. Determine safety procedures to follow during endodontic procedures
13.o. Identify the personal protective equipment required
13.p. Identify appropriate aseptic techniques during endodontic procedures

14. Adapt dental assisting techniques when assisting during fixed prosthodontics

Assessment Strategies
14.1. in a skill demonstration in which you assist with a crown prep including gingival retraction and impressions using a manikin
14.2. in a skill demonstration in which you place temporary coverage with previously fabricated crown/bridge on a manikin
14.3. in a skill demonstration in which you remove excess supragingival coronal cement on a manikin
14.4. by preparing a laboratory case for shipment
14.5. in a clinical setting

Criteria
You will know you are successful when:
14.1. you select the correct armamentarium
14.2. you position yourself and manikin correctly
14.3. you anticipate procedural steps
14.4. you perform all steps in the right order
14.5. you provide post-operative instructions
14.6. you communicate professionally with the patient
14.7. you employ safety precautions
14.8. you utilize infection control protocol
14.9. you wear personal protective equipment
14.10. you prepare laboratory case shipment.
14.11. you maintain patient's records to show accurate, up-to-date documentation of treatment and services.

Learning Objectives
14.a. Use dental terminology related to fixed prosthodontics appropriately
14.b. Describe the scope of fixed prosthodontics
14.c. Describe the role of an assistant during fixed prosthodontic procedures
14.d. Describe various types of fixed prosthesis and their functions
14.e. Differentiate among various fixed prosthodontic procedures
14.f. Identify the armamentarium and materials used in fixed prosthodontics
14.g. Review cements used for temporary and permanent cementation
14.h. Identify the principles of shade selection
14.i. Sequence the steps in various fixed prosthodontic procedures
14.j. Identify the information needed to complete a laboratory prescription/work authorization
14.k. Identify post-operative complications
14.l. List post-operative instructions given to a patient following a fixed prosthodontic procedure
14.m. Select appropriate communication skills throughout the dental procedure
14.n. Determine safety procedures to follow during fixed prosthodontic procedures
14.o. Identify the personal protective equipment required

15. Adapt dental assisting techniques when assisting during removable prosthodontics

Assessment Strategies
15.1. in a skill demonstration in which you assist with removable prosthodontics using a manikin
15.2. by preparing a laboratory case for shipment
15.3. in a clinical setting

Criteria
You will know you are successful when:

15.1. you select the correct armamentarium
15.2. you position yourself and manikin correctly
15.3. you anticipate procedural steps
15.4. you perform all steps in the right order
15.5. you provide post operative instructions
15.6. you communicate professionally with the patient
15.7. you employ safety precautions
15.8. you utilize infection control protocol
15.9. you wear personal protective equipment
15.10. you ship laboratory case according to shipping standards.
15.11. you maintain patient's records to show accurate, up-to-date documentation of treatment and services.

Learning Objectives

15.a. Use dental terminology related to removable prosthodontics appropriately
15.b. Describe the scope of removable prosthodontics
15.c. Describe the role of an assistant during removable prosthodontic procedures
15.d. Describe various types of removable prosthesis and their functions
15.e. Define the components of a removable prosthesis
15.f. Differentiate among various removable prosthodontic procedures
15.g. Identify the armamentarium and materials used in removable prosthodontics
15.h. Sequence the steps in various removable prosthodontic procedures
15.i. Explain the various materials and steps used in reline procedures
15.j. Identify the information needed to complete a laboratory prescription/work authorization
15.k. Identify post-operative complications
15.l. List post-operative instructions given to a patient following a removable prosthodontic procedure
15.m. Select appropriate communication skills throughout the dental procedure
15.n. Determine safety procedures to follow during removable prosthodontic procedures
15.o. Identify the personal protective equipment required

16. Adapt dental assisting techniques when assisting during periodontics

Assessment Strategies

16.1. in a skill demonstration in which you assist with simulated periodontal procedures using the manikin
16.2. in a skill demonstration in which you place and remove periodontal dressing using the manikin/role play peer
16.3. in a clinical setting

Criteria

Your performance will be successful when:

16.1. you select the correct armamentarium
16.2. you position yourself and manikin/patient correctly
16.3. you anticipate procedural steps
16.4. you perform all steps in the right order
16.5. you provide post operative instructions
16.6. you communicate professionally with the patient
16.7. you employ safety precautions
16.8. you utilize infection control protocol
16.9. you wear personal protective equipment
16.10. patient's records show accurate, up-to-date documentation of treatment and services

Learning Objectives

16.a. Use dental terminology related to periodontics appropriately
16.b. Describe the scope of periodontics
16.c. Identify oral pathology as it relates to periodontics
16.d. Describe the role of an assistant in surgical and nonsurgical periodontal procedures
16.e. Identify periodontal instruments according to function
16.f. Differentiate among various periodontic procedures
16.g. Identify the armamentarium and materials used in periodontic procedures
16.h. Describe how to prepare a patient for periodontal treatment
16.i. Sequence the steps in various periodontic procedures
16.j. Identify postoperative complications
16.k. List post-operative instructions given to a patient following a periodontal procedure
16.l. Explain the purpose of using a periodontal dressing
16.m. Differentiate among the various types of periodontal dressings
16.n. Sequence the steps in preparing, placing and removing a periodontal dressing
16.o. Discuss the causes and treatment of TMJ dysfunction
16.p. Apply the theory of occlusal equilibration to TMJ dysfunction
16.q. List post-operative patient care following TMJ treatment
16.r. Select appropriate communication skills throughout the dental procedure
16.s. Determine safety procedures to follow during periodontic procedures
16.t. Identify the personal protective equipment required
16.u. Identify appropriate aseptic techniques during periodontic procedures

17. **Explain how dental implants can affect and benefit a patient**

**Assessment Strategies**
17.1. in an oral, written, or graphic assessment

**Criteria**

*Your performance will be successful when:*

17.1. you describe the dental implant procedure
17.2. you explain how it would impact the patient
17.3. your response is supported by relevant evidence

18. **Select techniques for assisting patients with special needs**

**Assessment Strategies**
18.1. in an oral, written, or graphic assessment

**Criteria**

*You will know you are successful when:*

18.1. you describe the patient's special needs
18.2. you describe feasible management techniques for the patient with special needs
18.3. you provide relevant evidence

**Learning Objectives**

18.a. Use dental terminology related to special patients appropriately
18.b. Identify the special needs of certain patients
18.c. Describe various management techniques when treating special patients
18.d. Explain the impact of the American Disabilities Act (ADA) on special patients