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: 5.00

Total Hours: 207.00

Types of Instruction

<table>
<thead>
<tr>
<th>Instruction Type</th>
<th>Credits/Hours</th>
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<tbody>
<tr>
<td>Lecture</td>
<td>2 CR / 72 HR</td>
</tr>
<tr>
<td>Lab</td>
<td>1.5 CR / 54 HR</td>
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<tr>
<td>Clinical</td>
<td>1.5 CR / 81 HR</td>
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</table>

Course History

Last Approval Date: 4/13/2012

Target Population

Individuals who are preparing for careers as dental assistants.

Pre/Corequisites

Prerequisite: 31508103 Dental Radiography
Prerequisite: 31508302 Dental Chairside
Textbooks


Learner Supplies

Safety Glasses. **Vendor:** Campus Shop. Required.
Utility Gloves. **Vendor:** To be discussed in class. Required.
Lab Coat. **Vendor:** To be discussed in class. Required.

Core Abilities

1. **Apply mathematical concepts.**
   
   Status: **Active**

2. **Demonstrate ability to think critically.**
   
   Status: **Active**

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

4. **Make decisions that incorporate the importance of sustainability.**
   
   Status: **Active**

5. **Transfer social and natural science theories into practical applications.**
   
   Status: **Active**

6. **Use effective communication skills.**
   
   Status: **Active**

7. **Use technology effectively.**
   
   Status: **Active**

Program Outcomes

1. **Perform a variety of advanced supportive dental procedures**
   
   Status: **Active**

2. **Manage infection and hazard control**
   
   Status: **Active**

3. **Demonstrate professional behaviors, ethics and appearance**
   
   Status: **Active**

External Standards

<table>
<thead>
<tr>
<th>Title</th>
<th>Dental Assisting Standards - ADA</th>
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<tbody>
<tr>
<td>Version/Date</td>
<td>2008</td>
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<tr>
<td>Association Status</td>
<td>Active</td>
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<tr>
<td>Sponsoring Organization</td>
<td>American Dental Association</td>
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<td>Origin URL</td>
<td><a href="http://www.ada.org/sections/educationAndCareers/pdfs/da.pdf">www.ada.org/sections/educationAndCareers/pdfs/da.pdf</a></td>
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</table>
Target Standards

2-4 The curriculum must be structured on the basis of, a minimum of, one academic year of full-time study or its equivalent at the postsecondary level.

2-5 The curriculum must be designed to reflect the interrelationship of its general education, biomedical sciences, dental sciences, clinical sciences and clinical practice. This content must be integrated and of sufficient depth, scope, sequence of instruction, quality and emphasis to ensure achievement of the curriculum's defined competencies.

2-6 Written documentation of each course in the curriculum must be provided and include the course description, course outline including topics to be presented, specific instructional objectives, learning experiences including time allocated for each experience and evaluation procedures.

2-7 Graduates must be competent in the knowledge and skill required to systematically collect diagnostic data, including: Medical and dental histories, Vital signs, Extra/intra oral examinations, Dental charting, Radiographs, Preliminary impressions/study casts/occlusal registrations.

2-8.a Manage infection and hazard control protocol consistent with published professional guidelines.
2-8.b Prepare tray setups.
2-8.c Prepare and dismiss patients
2-8.d Apply current concepts of chairside assisting.
2-8.e Assist with and/or apply topical anesthetic.
2-8.f Assist with and/or place and remove rubber dam.
2-8.g Assist with and/or apply fluoride agents.
2-8.h Provide oral health instruction.
2-8.i Provide post-operative instructions prescribed by a dentist.
2-8.j Maintain accurate patient treatment records.
2-8.k Maintain treatment area.
2-8.l Assist in the management of medical and dental emergencies.

2-11 The curriculum must include content in five areas: general education, biomedical sciences, dental sciences, clinical sciences and clinical practice.

2-12 The general education aspect of the curriculum must include content at the familiarity level: a. Oral communications b. Written communications c. Psychology

2-14 The biomedical science aspect of the curriculum must include content at the in-depth level in bloodborne pathogens and hazard communications standards and content must be integrated throughout the didactic, preclinical, laboratory and clinical components of the curriculum.

2-15.c The dental science aspect of the curriculum must include content at the familiarity level in oral pathology.

2-21.a The clinical science aspect of the curriculum must include content at the in-depth level to include general dentistry.
2-21.d The clinical science aspect of the curriculum must include content at the in-depth level to include chairside assisting.
2-21.e The clinical science aspect of the curriculum must include content at the in-depth level to include dental-related environmental hazards.
2-21.f The clinical science aspect of the curriculum must include content at the in-depth level to include oral health education.
2-27 As students progress through the clinical phase of the program, their levels of performance must be expected to elevate.

2-28 Students must maintain a record of their activities in each assignment.

2-32 The program must employ objective student evaluation methods that measure all defined laboratory, preclinical and clinical course objectives. Examples of evidence to demonstrate compliance may include: a. Students and faculty assess progress in relation to the stated course objectives. b. The required competencies are based on generally accepted standards. c. Specific criteria for measuring levels of competence are developed for each component of a given procedure. d. Students' performance is measured against accepted program standards. e. Standards of performance are adjusted upward as students progress through the curriculum.

Course Competencies

1. **Maintain infection control records**

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Linked Core Abilities
- Apply mathematical concepts.
- Demonstrate ability to think critically.
- Demonstrate ability to value self and work ethically with others in a diverse population.
- Make decisions that incorporate the importance of sustainability.
- Transfer social and natural science theories into practical applications.
- Use effective communication skills.
- Use technology effectively.

Linked Program Outcomes
- Perform a variety of advanced supportive dental procedures
- Manage infection and hazard control
- Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
1.1. by preparing an infection control manual in which you maintain infection control records
1.2. given appropriate OSHA forms

Criteria
Your performance will be successful when:
1.1. manual is compliant with OSHA regulations
1.2. manual includes employee training requirements for infection control
1.3. manual includes written exposure control plan
1.4. manual categorizes occupational risk
1.5. manual describes post exposure incident management

Learning Objectives
1.a. Use dental terminology related to infection control appropriately
1.b. Apply the information learned in the Dental Health Safety Course
1.c. Identify the components of an infection control manual
1.d. Select appropriate communication skills in the manual

2. **Counsel patients about nutrition and its relationship to total health**

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Linked Program Outcomes
- Perform a variety of advanced supportive dental procedures
- Manage infection and hazard control
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1.a. Use dental terminology related to infection control appropriately
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2. **Counsel patients about nutrition and its relationship to total health**

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- Demonstrate ability to think critically.
- Demonstrate ability to value self and work ethically with others in a diverse population.
- Transfer social and natural science theories into practical applications.
- Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
2.1. by completing diet evaluation form
2.2. given a completed food diary
2.3. in a role play in which you counsel a peer about nutrition and its relationship to total health using a completed food diary and diet evaluation form

Criteria
Your performance will be successful when:
2.1. you select the correct materials and forms
2.2. you collect a completed food diary
2.3. you record the diet intake of food choices
2.4. you compare diet to the Food Guide Pyramid
2.5. you complete a dietary analysis form that shows the relationship between the food diary and total health
2.6. you communicate professionally with the patient
2.7. food diary and dietary analysis forms are complete and accurate
2.8. patient's records show accurate, up-to-date documentation of counseling session

Learning Objectives
2.a. Use dental terminology related to nutrition appropriately
2.b. Explain the current recommended food guidelines
2.c. Describe the characteristics and function of major nutrients
2.d. Interpret a food label
2.e. Explain the effects of diet on oral/total health
2.f. Identify the health risks related to diet
2.g. Explain the dietary requirements for patients with special needs
2.h. Interpret a food diary into a diet evaluation form
2.i. Identify oral pathology as it relates to nutrition
2.j. Select appropriate communication skills throughout nutritional counseling

3. Adapt dental assisting techniques when assisting with pediatric dentistry

Domain Psychomotor Level Adaptation Status Active

Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
3.1. in a skill demonstration in which you fabricate a stainless steel crown on a prepped tooth on a manikin
3.2. in a skill demonstration in which you assist the instructor with a pulpotomy using a manikin
3.3. in a clinical setting

Criteria
Your performance will be successful when:
3.1. you select the correct armamentarium
3.2. you position yourself and manikin correctly
3.3. you anticipate procedural steps
3.4. you perform all critical 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. stainless steel crown is adapted to the prepped tooth
3.11. patient’s records show accurate, up-to-date documentation of treatment and services

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

4. Assist with a sealant procedure

Domain Psychomotor Level Practice Status Active

Linked Core Abilities
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
4.1. in a skill demonstration in which you assist with a sealant procedure on a manikin
4.2. in a clinical setting

Criteria

Your performance will be successful when:
4.1. you select the correct armamentarium
4.2. you position yourself and patient correctly
4.3. you anticipate procedural steps
4.4. you perform all critical steps in the right order
4.5. you provide post operative instructions
4.6. you communicate professionally with the patient
4.7. you employ safety precautions
4.8. you utilize infection control protocol
4.9. you wear personal protective equipment
4.10. patient’s records show accurate, up-to-date documentation of treatment and services
Learning Objectives
4.a. Use dental terminology related to sealants appropriately
4.b. Explain the purpose of sealants
4.c. Describe the responsibility of the assistant in a sealant procedure
4.d. Differentiate among the types of sealant materials
4.e. Identify the armamentarium and materials used in sealant procedures
4.f. Describe how to prepare a patient for sealants
4.g. Sequence the steps in various sealant procedures
4.h. Select appropriate communication skills throughout the dental procedure
4.i. Determine safety procedures to follow during sealant procedures
4.j. Identify the personal protective equipment required
4.k. Identify appropriate aseptic techniques during sealant procedures

5. Perform coronal polishing procedure
   Domain Psychomotor Level Practice Status Active

Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
5.1. in a skill demonstration in which you perform coronal polishing on a manikin/role-play peer or patient
5.2. in a clinical setting

Criteria
Your performance will be successful when:
5.1. you select the correct armamentarium
5.2. you position yourself and patient correctly
5.3. you perform all critical steps in the right order
5.4. you communicate professionally with the patient
5.5. you employ safety precautions when using handpiece
5.6. you utilize infection control protocol
5.7. you wear personal protective equipment
5.8. patient’s records show accurate, up-to-date documentation of treatment and services

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

6. Apply fluoride agents
Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
6.1. in a skill demonstration in which you apply fluoride agents on a role-play peer or patient
6.2. in a clinical setting

Criteria
Your performance will be successful when:
6.1. you identify that there is a consent form
6.2. you select the correct armamentarium
6.3. you position yourself and patient correctly
6.4. you perform all critical steps in the right order
6.5. you provide post operative instructions
6.6. you communicate professionally with the patient
6.7. you employ safety precautions
6.8. you utilize infection control protocol
6.9. you wear personal protective equipment
6.10. patient's records show accurate, up-to-date documentation of treatment and services

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

7. **Apply topical anesthetic**

Linked Core Abilities
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
7.1. in a skill demonstration in which you apply topical anesthetic on a manikin/role play peer
7.2. in a clinical/lab setting

Criteria
Your performance will be successful when:
7.1. you select the correct armamentarium
7.2. you position yourself and manikin correctly
7.3. you perform all critical steps in the right order
7.4. you communicate professionally with the patient
7.5. you employ safety precautions
7.6. you utilize infection control protocol
7.7. you wear personal protective equipment
7.8. patient's records show accurate, up-to-date documentation of treatment and services

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

8. Position dental dam
Domain Psychomotor Level Practice Status Active

Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
8.1. by completing a skill demonstration in which you position a dental dam on a manikin/role play peer
8.2. in a clinical setting

Criteria
Your performance will be successful when:
8.1. you select correct armamentarium
8.2. you position yourself and manikin/role play peer correctly
8.3. you prepare the dental dam according to operative field
8.4. you position and ligate clamp and frame
8.5. you maintain a dry operative field
8.6. you remove dental dam
8.7. you perform all critical steps in the right order
8.8. you communicate professionally with the patient
8.9. you employ safety precautions
8.10. you utilize infection control protocol
8.11. you wear personal protective equipment

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

9. Adapt dental assisting techniques when assisting during orthodontics

Linked Core Abilities
- Apply mathematical concepts.
- Demonstrate ability to think critically.
- Demonstrate ability to value self and work ethically with others in a diverse population.
- Make decisions that incorporate the importance of sustainability.
- Transfer social and natural science theories into practical applications.
- Use effective communication skills.
- Use technology effectively.

Linked Program Outcomes
- Perform a variety of advanced supportive dental procedures
- Manage infection and hazard control
- Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
9.1. in a skill demonstration in which you assist the instructor with orthodontic treatment using a manikin
9.2. in a clinical setting

Criteria
Your performance will be successful when:
9.1. you select the correct armamentarium
9.2. you position yourself and manikin correctly
9.3. you anticipate procedural steps
9.4. you perform all critical 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. patient's records show accurate, up-to-date documentation of treatment and services

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

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

Domain: Psychomotor  Level: Adaptation  Status: Active

Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
10.1. in a skill demonstration in which you assist the instructor with a simulated surgical procedure using a manikin
10.2. in a skill demonstration in which you trim and remove sutures on a manikin/role-play peer
10.3. in a clinical setting

Criteria
Your performance will be successful when:
10.1. you select the correct armamentarium
10.2. you position yourself and manikin/role play peer correctly
10.3. you anticipate procedural steps
10.4. you perform all critical steps in the right order
10.5. you provide post operative instructions
10.6. you communicate professionally with the patient
10.7. you employ safety precautions
10.8. you utilize infection control protocol
10.9. you wear personal protective equipment
10.10. patient's records show accurate, up-to-date documentation of treatment and services

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

11. **Characterize pharmacological agents commonly used in dentistry**

   **Domain** Cognitive  **Level** Comprehension  **Status** Active

   Linked Core Abilities
   Apply mathematical concepts.
   Demonstrate ability to think critically.
   Demonstrate ability to value self and work ethically with others in a diverse population.
   Make decisions that incorporate the importance of sustainability.
   Transfer social and natural science theories into practical applications.
   Use effective communication skills.
   Use technology effectively.

   Linked Program Outcomes
   Perform a variety of advanced supportive dental procedures
   Manage infection and hazard control
   Demonstrate professional behaviors, ethics and appearance

   Assessment Strategies
   11.1. by creating a chart classifying at least five types of pharmacological agents commonly used in dentistry
   11.2. using references

   Criteria
   Your performance will be successful when:
   11.1. chart includes indications and contraindications of the pharmacological agents
   11.2. chart includes the action of the pharmacological agents
   11.3. chart presents information in an organized manner
   11.4. chart evidences correct grammar, punctuation, and spelling

   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. Classify drugs used in dentistry according to their use
   11.d. Differentiate among the routes of drug administration
   11.e. Explain how drug dosage is determined
   11.f. Describe the reaction and effects of drugs
   11.g. Identify potential contraindications for prescribed medications

12. **Prepare a prescription for a dentist's signature**

   **Domain** Cognitive  **Level** Application  **Status** Active

   Linked Core Abilities
   Apply mathematical concepts.
   Demonstrate ability to think critically.
   Demonstrate ability to value self and work ethically with others in a diverse population.
   Transfer social and natural science theories into practical applications.
   Use effective communication skills.
   Use technology effectively.

   Linked Program Outcomes
   Perform a variety of advanced supportive dental procedures
   Demonstrate professional behaviors, ethics and appearance

   Assessment Strategies
   12.1. given a scenario and a completed medical history
   12.2. by preparing a prescription form for a dentist to sign
   12.3. using references
   12.4. in a clinic/lab setting

   Criteria
Your performance will be successful when:
12.1. you accurately record patient information onto a prescription form
12.2. you will copy medication information onto the prescription as indicated by the dentist
12.3. you will document and duplicate copy of the prescription in the patient's record
12.4. prescription is legible
12.5. prescription exhibits correct spelling
12.6. prescription is in ink and can be photocopied

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

13. **Reinforce a dental prescription for a patient**
   
   **Domain**  Cognitive  **Level**  Application  **Status**  Active

   Linked Core Abilities
   Apply mathematical concepts.
   Demonstrate ability to think critically.
   Demonstrate ability to value self and work ethically with others in a diverse population.
   Transfer social and natural science theories into practical applications.
   Use effective communication skills.
   Use technology effectively.

   Linked Program Outcomes
   Perform a variety of advanced supportive dental procedures
   Demonstrate professional behaviors, ethics and appearance

   Assessment Strategies
   13.1. by reviewing a prescription with a role play peer in a scenario

   Criteria

   Your performance will be successful when:
   13.1. you will clarify the prescription
   13.2. you answer any questions a patient may have on a given prescription
   13.3. you communicate professionally with patient
   13.4. patient's records show accurate, up-to-date documentation of services

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

14. **Adapt dental assisting techniques when assisting during endodontics**

   **Domain**  Psychomotor  **Level**  Adaptation  **Status**  Active

   Linked Core Abilities
   Apply mathematical concepts.
   Demonstrate ability to think critically.
   Demonstrate ability to value self and work ethically with others in a diverse population.
   Make decisions that incorporate the importance of sustainability.
   Transfer social and natural science theories into practical applications.
   Use effective communication skills.
   Use technology effectively.
Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
 Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
14.1. in a skill demonstration in which you assist the instructor with endodontic treatment using a manikin
14.2. by performing a vitalometer test in a skill demonstration using a manikin/role play peer
14.3. in a clinical setting

Criteria
Your performance will be successful when:
14.1. you select the correct armamentarium
14.2. you position yourself and manikin/patient correctly
14.3. you anticipate procedural steps
14.4. you perform all critical 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. patient's records show accurate, up-to-date documentation of treatment and services

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

15. Adapt dental assisting techniques when assisting during fixed prosthodontics

Domain Psychomotor Level Adaptation Status Active

Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
15.1. in a skill demonstration in which you assist the instructor with a crown prep including gingival retraction and impressions using a manikin
15.2. in a skill demonstration in which you place temporary coverage with previously fabricated crown/bridge on a manikin
15.3. in a skill demonstration in which you remove excess supragingival coronal cement on a manikin
15.4. in a skill demonstration in which you prepare a laboratory case for shipment
15.5. in a clinical setting

Criteria

Your performance will be 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 critical 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. laboratory case is prepared for shipment
15.11. patient's records show accurate, up-to-date documentation of treatment and services

Learning Objectives

15.a. Use dental terminology related to fixed prosthodontics appropriately
15.b. Describe the scope of fixed prosthodontics
15.c. Describe the role of an assistant during fixed prosthodontic procedures
15.d. Describe various types of fixed prosthesis and their functions
15.e. Differentiate among various fixed prosthodontic procedures
15.f. Identify the armamentarium and materials used in fixed prosthodontics
15.g. Review cements used for temporary and permanent cementation
15.h. Identify the principles of shade selection
15.i. Sequence the steps in various fixed prosthodontic 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 fixed prosthodontic procedure
15.m. Select appropriate communication skills throughout the dental procedure
15.n. Determine safety procedures to follow during fixed prosthodontic procedures
15.o. Identify the personal protective equipment required

16. Adapt dental assisting techniques when assisting during removable prosthodontics

Domain Psychomotor Level Adaptation Status Active

Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
16.1. in a skill demonstration in which you assist the instructor with removable prosthodontics using a manikin
16.2. by preparing a laboratory case for shipment
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 correctly
16.3. you anticipate procedural steps
16.4. you perform all critical 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. laboratory case meets shipping standards
16.11. patient's records show accurate, up-to-date documentation of treatment and services

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

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

Linked Core Abilities
- Demonstrate ability to think critically.
- Demonstrate ability to value self and work ethically with others in a diverse population.
- Transfer social and natural science theories into practical applications.
- Use effective communication skills.
- Use technology effectively.

Linked Program Outcomes
- Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
17.1. by preparing a written response to a case study pertaining to dental implants

Criteria

*Your performance will be successful when:*
17.1. case study response describes the dental implant procedure and how it would impact the patient
17.2. case study response is supported by relevant evidence
17.3. case study response is well organized
17.4. case study response evidences correct grammar, punctuation, and spelling

Learning Objectives
17.a. Use dental terminology related to dental implants appropriately
17.b. Describe the scope of dental implants in fixed and removable prosthodontics
17.c. Describe the role of an assistant during a dental implant process
17.d. Describe various types of dental implants and their functions
17.e. Identify the armamentarium and materials used in the implant process
17.f. Sequence the steps in dental implant procedures
17.g. Identify post-operative complications
17.h. List post-operative instructions given to a patient following a dental implant
17.i. Select appropriate communication skills throughout the case study
17.j. Determine safety procedures to follow during the dental implant process

18. **Adapt dental assisting techniques when assisting during periodontics**

*Domain* Psychomotor  *Level* Adaptation  *Status* Active

**Linked Core Abilities**
- Apply mathematical concepts.
- Demonstrate ability to think critically.
- Demonstrate ability to value self and work ethically with others in a diverse population.
- Make decisions that incorporate the importance of sustainability.
- Transfer social and natural science theories into practical applications.
- Use effective communication skills.
- Use technology effectively.

**Linked Program Outcomes**
- Perform a variety of advanced supportive dental procedures
- Manage infection and hazard control
- Demonstrate professional behaviors, ethics and appearance

**Assessment Strategies**
18.1. in a skill demonstration in which you assist the instructor with simulated periodontal procedures using the manikin
18.2. in a skill demonstration in which you place and remove periodontal dressing using the manikin/role play peer
18.3. in a clinical setting

**Criteria**

*Your performance will be successful when:*
18.1. you select the correct armamentarium
18.2. you position yourself and manikin/patient correctly
18.3. you anticipate procedural steps
18.4. you perform all critical steps in the right order
18.5. you provide post operative instructions
18.6. you communicate professionally with the patient
18.7. you employ safety precautions
18.8. you utilize infection control protocol
18.9. you wear personal protective equipment
18.10. patient’s records show accurate, up-to-date documentation of treatment and services

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

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

   **Domain**  
   Cognitive

   **Level**  
   Application

   **Status**  
   Active

   **Linked Core Abilities**
   
   Demonstrate ability to think critically.
   Demonstrate ability to value self and work ethically with others in a diverse population.
   Transfer social and natural science theories into practical applications.
   Use effective communication skills.
   Use technology effectively.

   **Linked Program Outcomes**
   
   Perform a variety of advanced supportive dental procedures
   Manage infection and hazard control
   Demonstrate professional behaviors, ethics and appearance

   **Assessment Strategies**
   
   19.1. by preparing a written response to scenarios pertaining to patients with special needs

   **Criteria**
   
   Your performance will be successful when:
   
   19.1. scenario responses describe the patient's special needs
   19.2. scenario responses describe feasible management techniques for the patient with special needs
   19.3. scenario responses are supported by relevant evidence

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

   **Course Learning Plans and Performance Assessment Tasks**

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