## Competency
**Communication**

### Student Learning Outcome
Communicate with patients/care givers to enable them to make informed decisions concerning the management of their care.

### Student Learning Outcome
Communicate case design to laboratory technicians and evaluate the resultant appliance or prosthesis.

## Competency
**Community Engagement, Social Justice and Equity**

### Student Learning Outcome
Evaluate the patient response to treatment in the context of emerging trends in science health care, social determinants of health, and economics and apply this information to enhance patient care, practice management, professional development, and the needs of patient populations served.

## Competency
**Information Literacy**
### Student Learning Outcome
Evaluate scientific literature, and integrate new knowledge and best research outcomes with patient values and other sources of information to formulate a comprehensive treatment plan and alternatives that address each diagnosis.

### Competency
Patient Centered Care

### Student Learning Outcome
Adhere to standard precautions for infection control for all clinical procedures.

### Student Learning Outcome
Use patient education strategies to maximize oral health and the prevention of disease.

### Competency
Professional Identity and Ethical Behavior

### Student Learning Outcome
Provide oral health care in a manner that manages risk, ensures patient safety and is consistent with jurisprudence (e.g., OSHA and HIPAA) and ethical business and financial operations requirements for dentistry and healthcare.

### Student Learning Outcome
Demonstrate a commitment to carrying out professional responsibilities, an adherence to ethical principles, and the qualities required to sustain lifelong personal and professional growth by evaluating outcomes of comprehensive dental care and personal level of skills and knowledge.

### Competency
Professional Knowledge and Skills
**Student Learning Outcome**
Recognize abuse and neglect (e.g. substance, physical, emotional and/potential self-abuse) and refer for appropriate management.

**Student Learning Outcome**
Students will formulate a comprehensive problem list.

**Student Learning Outcome**
1 - Restore orofacial function, structure and esthetics while promoting soft and hard tissue health by preventing and/or managing:
   a. Medical emergencies (e.g., cardiac arrest)
   b. Dental emergencies (e.g., acute pain, hemorrhage, trauma, and infection of the orofacial complex)
   c. Pain during treatment
   d. Endodontic conditions, including pulpal and periradicular diseases
   e. Caries
   f. Periodontal diseases
   g. Oral mucosal and osseous diseases
   h. Restorative needs of the partially or completely edentulous patient
   i. Oral surgical treatment needs
   j. Developmental or acquired occlusal problems
   k. Temporomandibular disorders
   l. Oral esthetic needs of patients
   m. Complications arising from the use of therapeutic and pharmacological agents in patient care

**Student Learning Outcome**
Collect and interpret information from available resources (e.g. patient history, physical exam, diagnostic tools, patient records, and other healthcare professionals) to assess and manage patients.

**Student Learning Outcome**
Select and administer or prescribe pharmacological agents in the treatment of dental patients with consideration of patient systemic health conditions and current medications.

**Student Learning Outcome**
Identify the chief complaint, identify the contributing factors and complete a history of the present illness.
Student Learning Outcome
Demonstrate knowledge of physics and chemistry to explain the characteristics of technologies and materials and how they are utilized.

Student Learning Outcome
Perform head and neck (extraoral and intraoral) and physical examinations within the scope of practice, interpreting and evaluating the clinical findings, recognizing the normal range of clinical presentation and distinguishing significant deviations that require monitoring, treatment, or management.

Student Learning Outcome
Demonstrate knowledge of pathology as well as the principles of genetic, congenital, and developmental diseases and conditions and their clinical features to assess patient risk.

Student Learning Outcome
Demonstrate critical thinking, and understanding of quantitative methods and informatics, in the prevention, diagnosis and management of oral and systemic disease.

Student Learning Outcome
Demonstrate knowledge of sociology, psychology, ethics and other behavioral sciences.

Student Learning Outcome
Demonstrate knowledge of the biology of microorganisms in physiology and pathology, and of the cellular and molecular basis of host defense mechanisms.

Student Learning Outcome
Demonstrate knowledge of physics, chemistry, and molecular, cellular and systems-level scientific principles of development, structure, and function to explain normal biology and pathobiology.
### Student Learning Outcome
Describe the manifestations of systemic disease and the interrelationships with oral health, and how the disease and its management may affect the delivery of dental care.

### Student Learning Outcome
Demonstrate knowledge of pharmacology in the prevention, diagnosis and management of oral and systemic disease.

### Competency
Teamwork

### Student Learning Outcome
Collaborate with dental team members and other health care professionals to promote health and manage disease in communities.

### Student Learning Outcome
Practice within the general dentist's scope of competence and consult with or refer to professional colleagues when indicated.

### Competency
Communication

### Student Learning Outcome
3.1, Apply appropriate interpersonal and communication skills.

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### Competency

**Community Engagement, Social Justice and Equity**

### Student Learning Outcome

3.3, Communicate effectively with individuals from diverse populations.

### Competency

**Information Literacy**

### Student Learning Outcome

1.4, Apply research principles to answer an original research question

1.3, Evaluate and integrate best research outcomes with clinical expertise and patient values for evidence-based practice.

### Student Learning Outcome

1.4, Apply research principles to answer an original research question
Student Learning Outcome
1.3, Evaluate and integrate best research outcomes with clinical expertise and patient values for evidence-based practice.

Competency
Patient Centered Care

Student Learning Outcome
6.2, Prevent, identify, and manage trauma, oral disease and other disorder of pulpal and periradicular origin.

Student Learning Outcome
6.1, Manage the endodontic oral health care of the child, adolescent, and adult, as well as the unique needs of the medically compromised and special needs patients.

Student Learning Outcome
6.15, Recognize and manage patient abuse and/or neglect.

Student Learning Outcome
6.16, Recognize and manage substance abuse.

Student Learning Outcome
6.9, Prevent, diagnose, and manage pain and anxiety in the dental patient.
Student Learning Outcome
6.10, Manage endodontic procedures that preserve tooth structure, maintain function, and promote soft and hard tissue health.

Student Learning Outcome
6.3, Obtain and interpret patient/medical data, including a thorough intra/extraoral examination, and use these findings to accurately assess and manage all patients.

Student Learning Outcome
6.9, Prevent, diagnose, and manage pain and anxiety in the dental patient.

Student Learning Outcome
3.2 Apply psychosocial and behavioral principles in patient-centered health care.
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Student Learning Outcome
4.3 Recognize and appreciate the need to contribute to the improvement of oral health beyond those served in traditional practice settings.

Student Learning Outcome
6.2 Prevent, identify, and manage trauma, oral disease and other disorder of pulpal and periradicular origin.

Student Learning Outcome
6.1 Manage the endodontic oral health care of the child, adolescent, and adult, as well as the unique needs of the medically compromised and special needs patients.

Student Learning Outcome
5.3 Apply principles of risk management, including informed consent and appropriate record keeping in patient care.

Student Learning Outcome
6.1 Manage the endodontic oral health care of the child, adolescent, and adult, as well as the unique needs of the medically compromised and special needs patients.

Student Learning Outcome
6.8 Utilize universal infection control guidelines for all clinical procedures.

Student Learning Outcome
6.14 Prevent, recognize, and manage medical and dental emergencies.
### Student Learning Outcome

5.3. Apply principles of risk management, including informed consent and appropriate record keeping in patient care.

### Competency

**Professional Identity and Ethical Behavior**

- 

### Student Learning Outcome

5.5. Demonstrate ability to conduct self-assessment, and use to set performance goals.

### Student Learning Outcome

2.1. Apply ethical and legal standards in the provision of dental care.

### Student Learning Outcome

2.2. Practice within one's scope of competence and consult with or refer to professional colleagues when indicated.

### Student Learning Outcome

6.4 Select, obtain, and interpret diagnostic images for the individual patient.
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### Student Learning Outcome

1.1, Evaluate and integrate emerging trends in health care and the field of endodontology

### Student Learning Outcome

6.17, Diagnose, identify and manage oral mucosal and osseous diseases.

### Student Learning Outcome

6.13, Diagnose and manage endodontic retreatment needs.

### Competency

**Teamwork**

### Student Learning Outcome

3.4, Communicate endodontic skills and endodontic scope of practice effectively to your dental professionals and professional colleagues

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### Student Learning Outcome

4.2, Participate with dental team members and other health care professionals in the management and health promotion of all patients.

### Competency

**Communication**
### Student Learning Outcome

3.1, Apply appropriate interpersonal and communication skills.

### Competency

Community Engagement, Social Justice and Equity

### Student Learning Outcome

3.3, Communicate effectively with individuals from diverse populations.

### Competency

Information Literacy

### Student Learning Outcome

1.4, Apply research principles to answer an original research question
Student Learning Outcome
1.3, Attainment of competency will be demonstrated using a Case Portfolio evaluated with a modified ABE scoring rubric.

Student Learning Outcome
1.4, Apply research principles to answer an original research question

Competency
Patient Centered Care

Student Learning Outcome
6.16 Recognize and manage substance abuse.

Student Learning Outcome
5.3, Apply principles of risk management, including informed consent and appropriate record keeping in patient care.

Student Learning Outcome
6.15, Recognize and manage patient abuse and/or neglect.

Student Learning Outcome
6.2, Prevent, identify, and manage trauma, oral disease and other disorder of pulpal and periradicular origin.
Student Learning Outcome
3.2, Apply psychosocial and behavioral principles in patient-centered health care.

Student Learning Outcome
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### Student Learning Outcome

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Student Learning Outcome
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Student Learning Outcome
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Student Learning Outcome
2.2 Practice within one's scope of competence and consult with or refer to professional colleagues when indicated.
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Student Learning Outcome
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Student Learning Outcome
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### Student Learning Outcome

3.4 Communicate endodontic skills and endodontic scope of practice effectively to your dental professionals and professional colleagues.

### Competency

#### Communication

**Student Learning Outcome**

 Demonstrate a broad knowledge of the dental and scientific literature as it relates to orthodontics and dentofacial orthopedics.

### Competency

#### Community Engagement, Social Justice and Equity

**Student Learning Outcome**

 Correct malocclusion of the teeth and jaws to the standards of the American Board of Orthodontics (ABO) and be able to collect the required patient records and put together case presentations which follow the specific directions of the ABO for their specialty certification clinical examination.

### Competency

#### Information Literacy
### Student Learning Outcome

Demonstrate a broad knowledge of the dental and scientific literature as it relates to orthodontics and dentofacial orthopedics.

### Student Learning Outcome

Initiate and complete a research project and publishable thesis that includes the development of a hypothesis, a critical review of the literature, design methodology, statistical analysis, and interpretation of data.

### Student Learning Outcome

Diagnose and plan the treatment for different types of malocclusion using evidence-based concepts of growth and development, anatomy, histology, pathology, dental materials, and biomechanics.

### Competency

**Patient Centered Care**

### Student Learning Outcome

Correct malocclusion of the teeth and jaws to the standards of the American Board of Orthodontics (ABO) and be able to collect the required patient records and put together case presentations which follow the specific directions of the ABO for their specialty certification clinical examination.

### Competency

**Professional Identity and Ethical Behavior**

### Student Learning Outcome

Demonstrate a broad knowledge of the dental and scientific literature as it relates to orthodontics and dentofacial orthopedics.
### Student Learning Outcome
Manage and treat all types of malocclusion in either the transitional or the permanent dentition including dentofacial, craniofacial, functional, and temporomandibular problems.

### Competency
Professional Knowledge and Skills

### Student Learning Outcome
Correct malocclusion of the teeth and jaws to the standards of the American Board of Orthodontics (ABO) and be able to collect the required patient records and put together case presentations which follow the specific directions of the ABO for their specialty certification clinical examination.

### Student Learning Outcome
Recognize and classify dental and skeletal malocclusion into the types and categories accepted by the Council on Dental Education of the American Dental Association.

### Competency
Teamwork

### Student Learning Outcome
Manage and treat all types of malocclusion in either the transitional or the permanent dentition including dentofacial, craniofacial, functional, and temporomandibular problems.
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Competency
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Competency
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Correct malocclusion of the teeth and jaws to the standards of the American Board of Orthodontics (ABO) and be able to collect the required patient records and put together case presentations which follow the specific directions of the ABO for their specialty certification clinical examination.

Competency
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Student Learning Outcome
Diagnose and plan the treatment for different types of malocclusion using evidence-based concepts of growth and development, anatomy, histology, pathology, dental materials, and biomechanics.
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Initiate and complete a research project and publishable thesis that includes the development of a hypothesis, a critical review of the literature, design methodology, statistical analysis, and interpretation of data.

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Competency
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<td>Information Literacy</td>
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<td>Diplomates of the American Board of Periodontology</td>
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<tr>
<td>Patient Centered Care</td>
<td>Program graduates will be able to conduct research</td>
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### Student Learning Outcome

The Program will demonstrate that patients receive quality care.

### Student Learning Outcome

Graduates of the Program will demonstrate a range of experiences in the full scope of comprehensive periodontal therapy to a patient population with diverse needs.

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**Competency**

Professional Identity and Ethical Behavior

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### Student Learning Outcome

Students participate in teaching activities during their educational program with honesty and integrity.

### Student Learning Outcome

Students will participate as active members of professional periodontal organizations.

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**Competency**

Professional Knowledge and Skills

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### Student Learning Outcome

Graduates of the Program will understand that they have received a comprehensive education that has prepared them to enter the field of Periodontics and pursue life-long learning.

### Student Learning Outcome

Graduates of the Program will be able to apply foundational knowledge in the biomedical sciences and periodontology to establish a periodontal diagnosis, prognosis, and treatment plan.
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<td>Graduates of the Program will demonstrate collaborative care with colleagues to optimize patient outcomes.</td>
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<tr>
<td>Student Learning Outcome</td>
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<tr>
<td>Program graduates will demonstrate active listening, oral and written communication skills</td>
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<tr>
<td>Competency</td>
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<tr>
<td>Community Engagement, Social Justice and Equity</td>
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<tr>
<td>Information Literacy</td>
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<td>Patient Centered Care</td>
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### Competency
Professional Identity and Ethical Behavior

**Student Learning Outcome**
Students participate in teaching activities during their educational program with honesty and integrity.

**Student Learning Outcome**
Students will participate as active members of professional periodontal organizations.

### Competency
Professional Knowledge and Skills

**Student Learning Outcome**
Graduates of the Program will understand that they have received a comprehensive education that has prepared them to enter the field of Periodontics and pursue life-long learning.

**Student Learning Outcome**
Graduates of the Program will be able to apply foundational knowledge in the biomedical sciences and periodontology to establish a periodontal diagnosis, prognosis, and treatment plan.

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Student Learning Outcome
Graduates of the Program will meet the CODA Standard 4-11 for Advanced Specialty Programs in Periodontics in patient pain and anxiety management.

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Competency
Teamwork

Student Learning Outcome
Graduates of the Program will demonstrate collaborative care with colleagues to optimize patient outcomes.