2018 Clinical and Didactic Core Curriculum
(Specific Program Goals and Objectives)

1) Anxiety, Sedation and Pain Control
2) Clinical Performance (Year 1 & 2)
3) Emergency Dentistry
4) Endodontics
5) Year-2 Advanced Topics in Endodontics
6) Implant Dentistry
7) Year-2 Advanced Topics in Implant Dentistry
8) Journal Club / Literature Seminars (Year 1 & 2)
9) Medical Risk Assessment
10) Occlusion
11) Oral and Maxillofacial Surgery
12) Year-2 Advanced Topics in Oral & Maxillofacial Surgery
13) Oral Medicine
14) Oral Pathology
15) Oral Photography
16) Orofacial Pain
17) Orthodontics
18) Pediatric Dentistry
19) Periodontics
20) Year-2 Advanced Topics in Periodontics
21) Practice Management
22) Radiology and Interpretation
23) Restorative Dentistry (Year 1 & 2)
   a) Esthetic
   b) Operative
   c) Fixed
   d) Removable
   e) Comprehensive Prosthodontics
   f) Occlusion
24) Year-2 Advanced Topics in Restorative Dentistry
25) Treatment Planning & Diagnosis (Year 1 & 2)
26) Dental Ethics
27) Clinical Protocol
a) Safety and Infection Control, Biohazardous Waste
b) Guideline review
c) Axium
Program Goals/Objectives:

Graduates of the University of Florida Advanced Education in General Dentistry program at Hialeah will:

ANXIETY, SEDATION AND PAIN CONTROL
from OMFS 1
1. Evaluate / identify apprehensive patients requiring behavioral, sedative and/or analgesic intervention
2. Select appropriate anesthetic drugs
3. Perform anesthetic techniques by appropriate routes
4. Identify complications secondary to anesthesia
5. Monitor vital signs
6. Be knowledgeable of the pharmacology of drugs selected for administration
7. Manage emergency drugs and equipment

CLINICAL PERFORMANCE
8. Increase understanding and competence in diagnosing and managing dental disease.
9. Broaden knowledge, skills and experience in a wide variety of clinical disciplines and contemporary techniques.
10. Increase competence and confidence in the provision of independent practice in all dental disciplines.

EMERGENCY DENTISTRY (from OMFS 2)
11. Appropriately respond to dental emergency patients that present to the dental clinic
12. Evaluate the course of the patient’s chief complaint
13. Prescribe and/or carry out the definitive procedures necessary to relieve the patient’s chief complaint
14. Consult with dental specialists, attending dentists, as needed
15. Refer the patient for proper follow-up care

ENDODONTICS
16. Diagnose pulpal and periradicular pathology
17. Utilize contemporary techniques for treating pulpal pathology
18. Treatment plan and treat simple to complex endodontic cases
19. Restore the endodontically treated tooth
20. Understand endodontic access, instrumentation and obturation techniques using current armamentarium

YEAR 2 ADVANCED TOPICS IN ENDODONTICS
21. Treat failing Root Canal Therapy either non-surgically or surgically.
22. Gain expertise in treating geriatric and pediatric patients with advanced endodontic needs.
23. Provide the opportunity to plan, treat and restore increasingly complex endodontic cases.
24. Understand basic concepts of Apexogenisis & Apexification

IMPLANT DENTISTRY
25. Understand patient selection criteria for the placement of dental implants
26. Complete implant pre-surgical diagnostics and treatment planning
27. Place and recover dental implants
28. Provide prosthodontic restorations for dental implants
29. Understand and manage complications that may arise during and after treatment
30. Understand special consideration in treatment planning
31. Facilitate communication between members of the implant team

YEAR 2 ADVANCED TOPICS IN IMPLANT DENTISTRY
32. Understand treatment planning, radiographic or CBCT analysis, patient selection, medical considerations, independent surgical techniques, and patient case presentations for placement and restoration of single and multiple dental implants. Presentations will be made to peers and private practitioners attending the course.

LITERATURE SEMINARS – Evidence Based Dentistry
from the 6-semester course Advanced Clinical Sciences
33. Critically review, analyze and evaluate the current dental literature.

MEDICAL RISK ASSESSMENT
(from OMFS 2)
34. Understand major medical disorders that may impact oral health care.
35. Understand the process in making informed judgments and clinical decisions regarding the potential risk and management of the medically involved or medically compromised patient during operative and surgical dental procedures.

OCCLUSION
36. Record accurate impressions and fabricate satisfactory diagnostic casts.
37. Record an accurate centric registration and correctly mount study casts on the articulator.
38. Diagnose occlusal disharmony and determine if it relates to either signs or symptoms.
39. Gain knowledge about the anterior envelope of function.
40. Adjust occlusion on mounted models to determine if intraoral adjustment is practical.
41. Be aware of the mandibular position when reconstructing the occlusion (maximum intercuspation or centric relations).
42. Diagnose the need for an occlusal splint and fabricate a splint and create a proper occlusal pattern on the splint.

ORAL AND MAXILLOFACIAL SURGERY
43. Perform the comprehensive patient history and physical examination; evaluate the physical diagnosis and medical risk assessment of each patient.
44. Provide routine outpatient oral surgery, deal with complications, manage biopsies.
45. Treat more complex oral surgery and other surgical cases within the scope of experience and training.
46. Identify complications, pathology, injuries and other complex cases requiring referral to the specialist.

YEAR 2
ADVANCED TOPICS IN ORAL AND MAXILLOFACIAL SURGERY
47. Be prepared and competent in the use of emergency equipment and able to respond to emergencies.
48. The resident demonstrates proficiency in the use of Nitrous Oxide and emergency equipment and is capable of directing clinic emergency protocol.

ORAL MEDICINE
49. Understand all systemic diseases with oral manifestations.
50. Recognize oral diseases and aware of the therapy recommended.
51. Recognize all oral diseases that may have systemic manifestations.
52. Recognize the oral manifestations, signs and symptoms that can occur from medications.

ORAL PATHOLOGY - Distance Learning
53. Demonstrate written proficiency in differential diagnosis when provided with clinical cases and histories requiring such decision making.
54. Demonstrate appropriate knowledge of accepted therapy for oral ulcerations and vesiculobullous conditions.
55. Demonstrate appropriate knowledge and understanding of the mechanisms that explain the clinical appearance of oral pathologic processes.
56. Demonstrate appropriate knowledge of salivary gland diseases discussed.
57. Demonstrate appropriate knowledge relative to the etiology, pathogenesis and diagnosis of oral cancer.
58. Demonstrate appropriate knowledge concerning the oral manifestations of systemic diseases.
59. Demonstrate appropriate knowledge and understanding of pathologic processes common to jaws.
60. Identify and diagnose abnormalities and pathological conditions of the oral cavity.

ORAL PHOTOGRAPHY (from Restorative Dentistry)
61. Understand standardized oral photographic techniques
62. Use intraoral and extraoral devices, as well as digital photography
63. Present cases using intraoral photographs

OROFACIAL PAIN
64. Understand basic pain mechanisms and pathways in the head and neck.
65. Understand commonly occurring pain referral patterns in the orofacial region.
66. Understand the rationale and protocol for obtaining a comprehensive history from the orofacial pain patient.
67. Recognize essential differences between acute and chronic pain.
68. Be able to perform a detailed examination of the temporomandibular joint
69. Identify various subgroups of intracapsular disorders
70. Be able to perform a detailed examination of the masticatory and cervical musculature.
71. Identify various subgroups of extracapsular disorders.
72. Understand the role of occlusal factors in TMD
73. Understand the rationale for multidisciplinary evaluation and management of TMD/Orofacial Pain.
74. Recognize non-TMD orofacial pain conditions of neurologic, salivary gland, vascular, anatomic, systemic disease origin.
75. Know the indications for an occlusal orthosis
76. Be able to determine the need for physical therapy

ORTHODONTICS
77. Develop a working knowledge of common occlusal/orthodontic problems.
78. Develop a logical, sequential procedure for diagnosis and analysis of orthodontic problems.
79. Gain familiarity with orthodontic treatment goals.
80. Teach the resident technical methods for treating minor orthodontic problems.

PEDIATRIC DENTISTRY
81. Familiarize the resident with how the anatomic and emotional differences between the pediatric, adolescent, and adult patients impact on treatment.
82. Refine behavioral management skills necessary to effectively treat the pediatric patient.
83. Provide the resident the opportunity to provide comprehensive pediatric dental care in the general practice setting.

PERIODONTOLOGY
84. Increase the resident's diagnostic acumen, ability to treatment plan, and clinically manage and maintain patients with periodontal diseases.
85. Diagnose periodontal defects and know accepted corrective measures.
86. Understand and apply emerging clinical concepts in the treatment of periodontal defects and disease.
87. Recognize and understand when and what clinical skills need to be applied for the treatment of periodontal disease and recognize when to refer as needed

YEAR 2 ADVANCED TOPICS IN PERIODONTICS
88. Develop independent diagnostic and clinical skills in the management of mild, moderate and severe periodontitis.
89. Understand, apply and utilize clinical concepts and traditional and/or emerging armamentarium in the treatment of periodontal defects and disease.

90. Understand the possible interaction of periodontal disease with other diseases and special precautions in patient management necessitated by systemic conditions.

PRACTICE MANAGEMENT
91. Understand business and management issues in dental practice associated with business plans, insurance, practice acquisition and development, management of personnel, dental records, informed consent, quality assurance, peer-review, dental ethics, medico-legal concerns.

92. Be familiar with the daily business and management issues associated with dental practice with emphasis on business plans, practice development, personnel, quality records, and quality assurance.

93. Understand the function of a variety of dental settings, including routine solo and group clinical practices. Graduates will develop interpersonal skills to successfully interact with patients, staff, suppliers, insurance companies, and the business community.

RADIOLOGY AND INTERPRETATION
94. Describe advanced imaging techniques appropriate for the diagnosis of complex conditions including techniques as computed tomography and magnetic resonance imaging

95. Discuss the principles of panoramic imaging and its role in dental practice

96. Describe the options of radiographic examination of dental implant sites and cross sectional anatomy of the mandible and maxilla

97. Be familiar with the fundamentals of digital imaging and its integration into the practice of dentistry

98. Understand the basic principles of radiologic interpretation

RESTORATIVE DENTISTRY
Operative, Fixed, Removable, Comprehensive Prosthodontics courses

100. Be given the opportunity to integrate various disciplines of dentistry, enabling the resident to provide the patient with comprehensive, well sequenced care.

101. Reach sound decisions regarding appropriate referral.

102. Be able to restore teeth to health and function and to understand alternative methods of accomplishing treatment objectives.

103. Have the opportunity to use and evaluate new operative techniques and dental materials.
104. Integrate a variety of therapy with the dental therapeutic needs for the patient.
105. Choose the appropriate design and material to meet the requirements of the patient.
106. Provide treatment options for patients.
107. Evaluate and use impression material selection and techniques
108. Evaluate and select methods of provisional restorations
109. Utilize effective communication with the dental laboratory
110. Be introduced to the restoration of osseo-integrated implants
111. Be aware of abused tissue and intervention; surgical, conditioners, relines, rebases
112. Understand the integration of complex prosthodontic therapy with other dental treatment

Subset:
OPERATIVE DENTISTRY
(from Restorative Dentistry)
Amalgam:
113. Recognize both active and inactive carious processes and initiate appropriate treatment for each.
114. Design and develop the appropriate tooth preparation with respect to both the tooth and the materials used to restore it.
115. Be proficient at patient management for operative dentistry including adequate isolation techniques.
116. Select the appropriate restorative material for restoration of a tooth to best restore form, function and esthetics.
117. Provide adequate pulpal protection from recurrent development of caries and thermal changes.
118. Develop functional occlusal anatomy to preserve the intermaxillary arch relationships.
119. Understand the need for recall and dental maintenance procedures.
Composite:
120. Understand the need for direct esthetic restorations to restore defects secondary to dental caries, developmental disturbances and regressive alterations that may occur.
121. Diagnose and deliver direct esthetic procedures such as diastema closures, direct veneers, anterior and posterior esthetic restoratives.
122. Understand dental biomaterials and properties of composites and dentin bonding materials.
123. Apply isolation techniques, including rubber dam and other contemporary devices.
Subset:
FIXED PROSTHODONTICS (from Restorative Dentistry)
124. Understand proper case selection and pre-treatment requirements for fixed prosthodontics.
125. Complete an adequate case analysis for treatment.
126. Complete appropriate tooth preparations to provide esthetics, function, retention and resistance form.
127. Select appropriate type of retainers.
128. Complete proper impression techniques to capture maxillo-mandibular relationships.
129. Understand articulation and functional development of the protheses.
130. Understand shade selection and contouring of the restoration.
131. Seat the restoration and teach proper care and maintenance.
Subset:
REMOVABLE PROSTHODONTICS
(from Restorative Dentistry)
132. Understand the diagnosis and treatment planning procedures for edentulous or partially edentulous patients.
133. Perform the techniques for fabrication of complete dentures and partially edentulous removable protheses.
134. Understand the need to manage the psycho-social problems of the patient.
135. Understand the multidisciplinary team approach in the laboratory component for the fabrication of complete dentures and partially edentulous protheses.
Subset:
COMPREHENSIVE PROSTHODONTICS
(from Restorative Dentistry)
Year 1
136. Perform a comprehensive oral exam, and collect the necessary clinical data to form a basic prosthodontic/restorative treatment plans.
137. Form a phased and sequenced treatment plan for a basic prosthodontic/restorative patient.
138. Evaluate a patient’s occlusion and diagnosing the potential etiology of some common causes for prosthodontic/restorative needs.
140. Understand the principles of mouth/tooth preparation for cast metal, porcelain fused to metal and all ceramic crowns.
141. Understand the principles of tooth preparation for a veneer crown, an inlay, and an onlay.
142. Understand the principles of restoring the endodontically treated tooth.
143. Understand the basic technique of restoring an implant with a prosthodontic/restorative prosthesis.
144. Understand the technique of fabricating an interim prosthodontic/restorative prosthesis.
145. Communicate with the dental laboratory on fabricating basic prosthodontic/restorative prostheses.

Year 1
146. Evaluate the prosthodontic/restorative laboratory work fabricated by the dental technician.
147. Understand the basic philosophy behind framework and pontic design for the prosthodontic/restorative prosthesis.
148. Understand the evaluation of the abutment tooth for a fixed or removable partial denture.
149. Understand the sequence of fabricating a complete or removable prosthesis.
150. Understand the technique of shade selection, and replicating color in a prosthodontic/restorative prosthesis.
151. Understand the technique of delivering and finishing the previously stated restorations.
152. Understand the maintenance of a prosthodontic/restorative dental prosthesis.

YEAR 2 ADVANCED TOPICS IN RESTORATIVE DENTISTRY
153. Discuss the science of Prosthodontics – Restorative Dentistry
154. Develop strategies to diagnose and treatment plan complex edentulous patients for complete, implant and partial dentures.
155. Gain competency in CAD/CAM and laser treatments
156. Be exposed to differing philosophies of occlusion
157. Discuss the etiology of the worn dentition
158. Develop strategies to sequence complex treatment plans
159. Examine parameters of beauty when considering esthetic dentistry
160. Discuss the importance of dental materials and material selection
161. Understand laboratory communication: from the diagnostic wax-up, to shade selection, to completion of the restoration.
CLINICAL PROTOCOL
SAFETY, INFECTION CONTROL, BIOHAZARDOUS WASTE
164. Gain familiarity with Health and Rehabilitative Services and OSHA (CDC) guidelines as they pertain to safety, infection control, biohazardous waste and hazardous communication.

165. Increase awareness of the avenues available by which to prepare, implement and train employees in programs related to safety, infection control, biohazardous waste and hazardous communication programs.

SPECIAL CARE DENTISTRY
(from OMFS Year 2)
166. Diagnose and treatment plan patients with special needs specifically: head and neck cancer patients, geriatric patients, patients with developmental and acquired problems, and the medically compromise and mentally challenged patients.

167. Examine and triage a patient for oral cancer, refer the patient for definitive treatment and manage the dental needs of the patient.

168. Understand the rationale behind the treatment planning and treatments available for the patient with special needs.

169. Be acquainted with the ability to treat patients in the hospital and the dental care appropriate to the operating room.

170. Understand the need to manage the psycho-social problems of the special needs patient.

171. Understand the multidisciplinary team approach to treatment of the special needs patient specifically cancer and medically compromised patients.

172. Understand the role of dental care in the overall management of the special needs patient.

173. Understand the principles and pharmacology of sedation dentistry and the use of medical positioning devices in the treatment of patients with special needs.

TREATMENT PLANNING AND DIAGNOSIS
(from the 6-semester course Advanced Clinical Sciences)
174. Comprehensively plan all cases in a logical and economically sound manner
175. Sequence dental care to meet the patient’s recognized needs while maximizing health and function.
176. Design alternative plans to address patient’s needs so they make informed decisions about their dental care.
177. Develop comprehensive, sequenced treatment plans for routine and complex dental cases.

DENTAL ETHICS
178. Residents will understand the basis for health care ethics.
179. Residents will identify the mission and values of the profession of dentistry and understand how the ADA determined its code of ethics.

CLINICAL PROTOCOL
180. Residents will understand the basis for the use of published guidelines in health care.