

# UNIVERSITY OF DETROIT MERCY SCHOOL OF DENTISTRY

## AEGD COURSE DESCRIPTIONS

### YEAR 2

The second year AEGD curriculum is designed as an optional continuation of the first year for residents who want to develop general dentistry skills on a more advanced level. Each second-year resident is asked to pursue an area of specific interest (teaching, research, public health, a particular clinical discipline, etc.). Concentrated instruction and clinical experiences will be provided to promote development in the chosen area. This document provides descriptions of program courses which are correlated to overall second year program goals as indicated. Most courses support overall first year goals as well. Please refer to AEGD 2 term schedules for timing of courses in the program.

#### **COURSE AND SEMINAR DESCRIPTIONS:**

##### **Advanced General Dentistry Seminar**

The goal of this course is to provide the second-year resident an opportunity to explore a broad range of topics related to general dentistry. Advanced literature review is expected of the second year resident to focus on clinical care as well as practice management, information technology, ethics, advanced treatment modalities and community service. Second year residents are also expected to lead group discussions with first year residents on general dentistry topics. This portion of the curriculum provides time for patient care and treatment planning conferences. Residents present patient cases they are currently treating. Residents will take clinical photographs and provide case histories and review pertinent literature prior to presentation. Presentations will focus on diagnosis, treatment planning, progress of clinical treatment and treatment outcomes. Specific aspects of the case may be assigned by the program director such as ethics, patients with special needs, health promotion/disease prevention, aspects of practice management or use of an advanced treatment modality. Second year residents are assigned treatment cases that are more complex and beyond the level of a first-year resident. Second year residents are also encouraged to act as leaders during discussion of clinical situations.

*This seminar supports AEGD 2 program goals 1 and 2.*

##### **Independent Study**

The goal of this course is to allow the second-year resident to pursue a specific area of interest. These areas may include teaching, research, public health or a particular clinical discipline. Residents are mentored by qualified faculty in each area of interest and are monitored by the Program Director on an ongoing basis.

*This activity supports AEGD 2 program goals 1 and 2.*

### **Dental Management of Medically Compromised Patients Seminar**

The goal of this course is to provide residents with information regarding oral medicine with a focus on current issues affecting the practice of dentistry, including the needs of underserved populations who are medically complex. Second year residents will conduct advanced literature reviews of topics in oral medicine that have relevancy to clinical dentistry and oral health care delivery. Second year residents are also expected to lead group discussions during presentations with first year residents on topics related to oral medicine. Many discussions will focus on cases of patients currently receiving care in the AEGD clinic.

*This seminar supports AEGD 2 program goals 1 and 2.*

### **Periodontal Case Review**

This portion of the curriculum provides time for residents to present patient cases they are currently treating with an emphasis on periodontal therapy and/or advanced treatment modalities. Resident case presentations include clinical photographs, medical and dental histories, clinical data, diagnosis, treatment planning and treatment outcomes. Residents are required to include relevant scientific literature in these presentations to support treatment planning and treatment techniques. Residents are encouraged to lead discussions during the presentations. In addition, second year residents are expected to lead group discussions.

*This seminar supports AEGD 2 program goals 1 and 2.*

### **Physiology of Bone and Tooth Movement**

The goal of this course is designed to familiarize the residents with the normal physiology of hard tissues such as bone and cementum and to assist the student in understanding and connecting events relevant to biomechanical therapy, growth and skeletal adaptation. Lectures will include topics such as hard tissue types and cells, contributing factors to calcium hemostasis, dynamic nature of the bone modeling and remodeling at a cellular and molecular level, the interaction of the genome with the mechanical load and how that affects bone morphology, periodontal ligament adaption to the mechanical load, how the various factors interact at the cellular and molecular level, tooth movement and root resorption. This course is in lecture format however residents are encouraged to participate in discussions.

*This seminar supports AEGD 2 program goal 1.*