

# PROGRAM REQUIREMENTS

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## Student Learning Outcomes

The student learning outcomes (competencies) listed below are the minimum levels of performance that are expected of the dentist graduate of UMKC School of Dentistry. Due to special interests, experiences and opportunities many students may exceed these expectations in various areas. However, every dental student must demonstrate competence as described below to graduate.

- Apply the fundamental principles of the biomedical and behavioral sciences as they relate to the promotion and provision of oral health care.
- Apply legal, ethical and regulatory principles to the provision of oral health care, including practice management.
- Apply interpersonal and communication skills to empathetically and effectively care for diverse patient populations and function in the health care environment.
- Apply critical thinking and problem solving skills to provide evidence-based patient-centered care.
- Evaluate various models of oral health management and care delivery.
- Participate in improving the oral health of individuals, families, and groups in the community through oral health promotion, education and interaction with other health professions.
- Manage medical emergencies and complications that may occur during dental treatment.
- Recognize and manage pain and anxiety, trauma, hemorrhage, and infection of the orofacial complex by selection, administration or prescription of pharmacological or non-pharmacologic agents in the treatment of dental patients.
- Demonstrate competence in providing oral health care within the scope of general dentistry for children, adolescents, adults, and special needs patients. This includes:
  - Perform a complete dental examination to arrive at a diagnosis, risk assessment and prognosis of the patient's oral condition/s.
  - Develop, present and implement an integrated treatment plan, including the risks and benefits of various options, to address a patient's oral health needs.
  - Prevent, identify and manage periodontal conditions.
  - Prevent, identify and manage pulpal and periradicular conditions.
  - Identify and manage patients with oral surgical needs.
  - Identify and manage malocclusions (including management of space/s).
  - Manage restorative procedures for single defective teeth, or to restore function in patients with partial or complete edentulism.
  - Treat patients with oral mucosal and osseous disorders and oral manifestations of systemic diseases.
  - Evaluate outcomes of treatment, including recall strategies, and prognosis.
- Demonstrate the ability to self-assess competency and plan for lifelong learning.

## Program Requirements

The school offers a four-year, eight-semester, two-summer-term curriculum leading to the doctor of dental surgery (D.D.S.) degree. This curriculum is designed to prepare graduates in dentistry to deliver patient care with a scientific basis and a caring manner. As such, it provides a sound background in the biomedical, behavioral and clinical sciences with an emphasis on comprehensive oral health care. Exposure to clinical dentistry in the first semester of the first year is a hallmark of this curriculum.

The first year of dental school focuses on instruction in the biomedical sciences that provide a foundation for clinical studies. The first-year student also studies introductory courses in oral diagnosis, preventive periodontics and dental restorative techniques in a pre-clinical setting. Early clinical exposure is further emphasized through clinic-based courses in both the first and the second semesters. Acquisition of basic diagnostic skills and background knowledge is a goal of the first year of the curriculum.

Biomedical science courses extend into the second year; however, the major thrust of the second year is devoted to pre-clinical technique coursework of increasing complexity. In the preclinical laboratory courses, students continue learning the fundamental procedures of dentistry: operative dentistry, prosthodontics (fixed and removable), and endodontics. Clinically, students are introduced to the basic essential skills needed in preventive periodontics. Classroom lecture sessions are also conducted in each of these areas of dentistry along with didactic courses in periodontics, oral diagnosis, oral radiology, and oral surgery.

The primary emphasis of the third year of the curriculum is the clinical practice of dentistry. The general clinic is organized into subunits called teams. Each team includes an established set of faculty and staff. Patients are assigned to students for comprehensive care, from diagnosis and treatment planning through procedures necessary for successful case completion. While the emphasis of the third and fourth years of the dental curriculum is gaining clinical experience, students also attend advanced classes in periodontics, prosthodontics, oral surgery, orthodontics, pediatric dentistry, operative dentistry and oral diagnosis/oral medicine.

The fourth year involves extensive clinical practice. There are a few seminar sessions and formal courses (e.g., practice management), but the student's major responsibility is to perfect diagnostic, patient-management and technical-treatment skills and demonstrate competence in all the skills required by the faculty of the School of Dentistry.

An outline of the four-year curriculum by semester is given below.

Code	Title	Credits
<b>Year I</b>		
<b>Fall</b>		
BMS 9300	Human Gross Anatomy I	5
BMS 9308	Histology	2.5
DENT 6306	Transitions: An Introduction to the Profession and Practice of Dentistry	0.5
DENT 6310C	Patient Care I	3
DENT 6313	Applied Biochemistry	4
DENT 6316	Dental Morphology	3
DENT 6319	Ethics and Professionalism	1
DENT 6328	Clinical Decision Making in Dentistry	1
<b>Spring</b>		
BMS 9301	Human Gross Anatomy II	5
DENT 6305	Operative Dentistry I Lecture	1
DENT 6305L	Operative Dentistry I Laboratory	2
DENT 6307	Transitions: Introduction to the Profession & Practice of Dentistry II	0.5
DENT 6314C	Patient Care II	2
DENT 6416	Complete Removable Prosthodontics	1
DENT 6416L	Complete Removable Prosthodontics I Laboratory	2
DENT 6317	Fundamentals of Occlusion and Fixed Prosthodontics	3
DENT 6350	Introduction To The Histopathology Of Oral Tissues	2
LS-PHYS 401	Physiology Lecture	5
Total Credits		43.5

Code	Title	Credits
<b>Year II</b>		
<b>Fall</b>		
DENT 6315C	Patient Care III	3
DENT 6402	Transitions: Introduction to the Profession and Practice of Dentistry III	0.5
DENT 6410	Operative Dentistry II Lecture	1
DENT 6410L	Operative Dentistry II Laboratory	2
DENT 6412	Anesthesiology I Lecture	1
DENT 6414	Pathology I Lecture	4
DENT 6417	Removable Partial Prosthodontics	1
DENT 6417L	Removable Partial Prosthodontics Laboratory	2
DENT 6422	Fixed Prosthodontics I Lecture	1
DENT 6422L	Fixed Prosthodontics I Laboratory	2
DENT 6426	Oral Radiology Lecture	2
DENT 6435	Endodontics I Lecture	1
DENT 6436	Orthodontics: Growth And Development	1
LS-MCRB 4180	Microbiology	4
<b>Spring</b>		
DENT 6352	Patient Care IV	1
DENT 6403	Transitions: Introduction to the Profession & Practice of Dentistry IV	0.5
DENT 6415	Pathology II	2
DENT 6420	Periodontics I	2
DENT 6423	Fixed Prosthodontics II Lecture	1
DENT 6423L	Fixed Prosthodontics II Laboratory	2

DENT 6424	Dental Management of the Medically Complex Patient	2
DENT 6431	Pediatric Dentistry I Lecture	1
DENT 6439	Medical Emergencies in the Dental Office	1
DENT 6440	Oral Surgery I	1
DENT 6442	Endodontics II Lecture	1
DENT 6442L	Endodontics Laboratory	2
DENT 6460C	Review of Pre-Clinical Dentistry	0.5
DENT 6526	Orthodontics I	1
DENT 6526L	Orthodontics I Laboratory	2
DENT 6527	Pharmacology and Therapeutics I	2
DENT 6556	Radiographic Interpretation	1
DENT 6595	Introduction To Implant Dentistry	1
<b>Summer</b>		
DENT 6537	Oral Oncology	0.5
DENT 6566	Bridge Course	2
DENT 6501C	Intro to Comprehensive Patient Care	8
DENT 6558C	Treatment Planning I	1
Total Credits		61

Code	Title	Credits
<b>Year III</b>		
<b>Fall</b>		
DENT 6312	Dental Behavioral Science I	1
DENT 6318	Dental Biomaterials	1
DENT 6502	Grand Rounds I	1
DENT 6515	Periodontics II	1
DENT 6518	Transitions: Introduction to the Profession & Practice of Dentistry V	1
DENT 6521	Oral Surgery II Lecture	1
DENT 6524	Principles of Oral Medicine and Diagnosis	1
DENT 6538	Orthodontics II	1
DENT 6509C	Comprehensive Patient Care I	8
DENT 6531C	Oral Diagnosis Clinical I	1
DENT 6591C	Professional Development I	1
<b>Spring</b>		
DENT 6411	Operative Dentistry III Lecture	1
DENT 6520	Transitions: Introduction to the Profession & Practice of Dentistry VI	1
DENT 6522	Oral Surgery Lecture III	1
DENT 6534	Advanced Predoctoral Prosthodontics	1
DENT 6559	Diagnosis and Management of Orofacial Pain	1
DENT 6564	Pharmacology and Therapeutics II	2
DENT 6602	Grand Rounds II	1
DENT 6633	Introduction To Dental Public Health	1
DENT 6634	Community-Based Dental Education (CODE) I	1
DENT 6510C	Comprehensive Patient Care II	4
DENT 6521C	Periodontics Clinical I	1
DENT 6542C	Operative Dentistry Clinical I	1
DENT 6551CR	Oral Surgery Clinical	2
DENT 6592C	Professional Development II	1
DENT 6606C	Pediatric Dentistry Clinical I	1
DENT 6636C	Oral Radiology Clinical	1
<b>Summer</b>		
DENT 6613	Periodontal Treatment Planning	1

DENT 6617	Pediatric Dentistry Seminar	0.5
DENT 6650	Applied Ethics	0.5
DENT 6593C	Professional Development III	1
DENT 6609C	Comprehensive Patient Care III	8
Total Credits		50

Code	Title	Credits
<b>Year IV</b>		
<b>Fall</b>		
DENT 6429	Dental Behavioral Science II	1
DENT 6514	Pathology III Lecture	1
DENT 6603	Grand Rounds III	1
DENT 6614	Dentistry For The Special Patient	2
DENT 6615	Transitions: Introduction to the Profession & Practice of Dentistry VII	1
DENT 6626	Clinical Treatment Planning	1
DENT 6635	Community-Based Dental Education (CODE) II	1
DENT 6607C	Pediatric Dentistry Clinical II	1
DENT 6610C	Comprehensive Patient Care Iv	5
DENT 6691C	Professional Development IV	1
<b>Spring</b>		
DENT 6600	Review Of Clinical Dentistry	1
DENT 6604	Grand Rounds IV	1
DENT 6605	Review Of Clinical Dentistry II	0.5
DENT 6562C	Removable Prosthodontics Clinical	1
DENT 6601C	Endodontics Clinical	2
DENT 6608C	Pediatric Dentistry Clinical III	1
DENT 6611C	Fixed Prosthodontics Clinical I	1
DENT 6614C	Comprehensive Patient Care V	10
DENT 6621C	Periodontics Clinical II	1
DENT 6625	Oral Surgery Clinical II	1
DENT 6642C	Operative Dentistry Clinical II	1
DENT 6656C	Orthodontic Clinical I	1
DENT 6692C	Professional Development V	1
Total Credits		37.5

**Total Credits: 192**