University of Kentucky
COLLEGE OF DENTISTRY

WELCOME
to the
year
2007-2008

College of Dentistry Bulletin
College of Dentistry

This bulletin is an official publication of the University of Kentucky College of Dentistry. It contains policies, regulations, procedures, and fees in effect as the publication went to press. The College of Dentistry reserves the right to make changes at any time to reflect current board policies, administrative regulations and procedures, amendments by state law, and fee changes.

All applicants meeting the appropriate academic requirements and technical standards shall be considered equally for admission to any academic program thereof regardless of race, color, religion, sex, marital status, beliefs, age, national origin, sexual orientation, or disability.

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Dear Prospective Student Dentist:

Sharon P. Turner, D.D.S., J.D.,
Dean of the University of Kentucky
College of Dentistry

The College of Dentistry at the University of Kentucky is an exciting community . . . a community of highly educated and nationally distinguished faculty, a community of talented and eager students, and a community of caring and dedicated professional staff. Each participant in our community has something unique to contribute and our spirit of community makes possible the contribution of all. We work together as colleagues to fulfill our human potential in the profession of dentistry.

From its beginnings, our College has been acknowledged nationally and internationally as a College of distinction. What makes the UK College of Dentistry outstanding? While I could respond with an array of unique qualities, one characteristic always assumes a position of pre-eminence . . . our commitment to students and to their development as professionals. Kentucky's vanguard always has been its orientation to students. We are a student-centered College. Our reason for existence is to enable students to become extraordinary practitioners of dentistry; to work with them in developing their full potential intellectually, clinically, interpersonally, creatively, and morally. As a College, we continuously reaffirm that this is why we are here and what we are about.

Our philosophy is simple and direct “facilitating student learning.” As a faculty, we seek to model a love of learning and a spirit of inquiry appropriate for students to inculcate into their professional value system. From matriculation, UK’s student dentists are accepted as colleagues in the profession and are respected as such. Only in a climate where human individuality and autonomy are respected can real professional education exist. Dentistry, society, and the world will change; our commitment to students has not and will not.

The University of Kentucky has a tradition of innovation, leadership, and accomplishment unrivaled in dental education. We are a distinctive College, and an integral part of an
exceptional Medical Center, on the campus of Kentucky's only land-grant, comprehensive, research University in Lexington, the heart of the beautiful Bluegrass region.

May I challenge you to consider the exciting opportunities afforded by the profession of dentistry. I also encourage you to consider the advantages of enrolling at the UK College of Dentistry and becoming a part of the outstanding Kentucky tradition.
The University

Founded on Feb. 22, 1865, the University of Kentucky began as the Agricultural Mechanical College of Kentucky University. In 1878, the Agricultural and Mechanical College was separated from Kentucky University and reestablished on land given by Lexington and Fayette County. Kentucky University is now Transylvania University. To provide a separate campus for the new institution, the city of Lexington donated its 50-acre fairground and park which had been used as bivouac area for Union troops during the Civil War. President James K. Patterson, whose service to the institution began in 1869, used his personal savings to supplement the building fund. Thirty years later, the legislature changed the name of the institution to State University, Lexington, Kentucky, and gave it additional financial support. In 1916, the name was changed to the University of Kentucky. UK is now among the 93 state universities and land-grant institutions in America. Other dates have proved pivotal in the history of the University:

Today, UK has about 30,000 students on the Lexington campus and Medical Center. More than 1,700 full-time faculty are employed at the University. UK is a member of the Southern Association of Colleges and Schools.

Pivotal dates in the history of the University:

1954 - UK Albert B. Chandler Medical Center is authorized to include colleges of dentistry, medicine, allied health professions, nursing, and pharmacy.

1960 - 473-bed University of Kentucky Hospital opens.

1962 - College of Dentistry enrolls its first class.
The College of Dentistry

Currently, the College admits 40 Kentucky residents and 16 non residents into its four-year curriculum leading to the Doctor of Dental Medicine (D.M.D.) degree.

Statement of Mission Goals

College Mission

The mission of the College of Dentistry reflects the mission of the University, and its purpose is to promote oral health within Kentucky and beyond by providing:

- a high quality education for students in the doctoral and specialty programs.
- meaningful research in oral health and related areas that is disseminated to the communities of interest.
- service to the University, community, the Commonwealth and the profession.

We will accomplish this through excellent education, research, patient care and public service programs.

The College of Dentistry is one of six colleges in the University of Kentucky Chandler Medical Center. Other colleges include Allied Health Professions, Medicine, Nursing, Pharmacy and Public Health. The UK Hospital, UK Children’s Hospital, Kentucky Clinic, Sanders-Brown Center on Aging and Lucille Parker Markey Cancer Center also are integral components of UK’s health science complex.

The College of Dentistry was established in 1961. In its brief existence, the accomplishments of the College are unparalleled in dental education. From its beginning, it has been acknowledged nationally and internationally as a leader in academic dentistry. Since its founding, more than 1,900 aspiring practitioners have selected the University of Kentucky to prepare them for their chosen profession.

Currently, the College admits 40 Kentucky residents and 16 non-residents into its four-year curriculum leading to the Doctor of Dental Medicine (D.M.D.) degree. The goal of the curriculum is to prepare dentists to meet the oral health needs of the society they are called to serve. The curriculum, developed at Kentucky, and now used extensively throughout the nation,
focuses on integrating learning in the biomedical and clinical sciences. This is accomplished by an introduction to clinical dentistry in the first year, and by extension of study in the biomedical sciences throughout the four years.

The curriculum is increasingly problem oriented, focusing on developing the student dentists’ critical-thinking skills imperative for the contemporary practice of dental medicine. The faculty is committed to inculcating in students an attitude of life-long learning, believing that only such an orientation enables a practitioner to provide competent, state-of-the-art services in a rapidly changing clinical environment. The expanding knowledge base of the profession requires that the curriculum focus on principles of dentistry and on teaching future dentists how to learn and instill in them the desire to continue to learn about the profession.

The College offers advanced educational programs leading to advanced certification in general practice, pediatric dentistry, periodontics, oral and maxillofacial surgery, orofacial pain, and orthodontics. In three of these, periodontics, orofacial pain and orthodontics, students also earn a Master of Science degree from the University of Kentucky Graduate School. Continuing education courses for practicing dental professionals also are an important dimension of the College's educational activities.

The College of Dentistry and all of its programs are accredited by the Commission on Dental Accreditation of the American Dental Association.

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**Accreditation Policy**

The predoctoral educational program at the University of Kentucky College of Dentistry is fully accredited by the American Dental Association Commission on Dental Accreditation.

It is the policy of this institution and the Commission on Dental Accreditation that all students should know how to contact the Commission to obtain a copy of the Accreditation Guidelines and/or to file a complaint.

The Commission on Dental Accreditation will review complaints that relate to a program’s compliance with the accreditation standards. The Commission is interested in the sustained quality and continued improvement of dental and dental-related education programs but does not intervene on behalf of individuals or act as a court of appeal for individuals in matters of admission, appointment, promotion or dismissal of faculty, staff or students.

A copy of the appropriate accreditation standards and/or the Commission’s policy and procedure for submission of complaints may be obtained by contacting the Commission at 211 East Chicago Avenue, Chicago, IL 60611-2678 or by calling 1-800-621-8099 extension 4653, or at the following website: [http://www.ada.org/prof/ed/accred/index.html](http://www.ada.org/prof/ed/accred/index.html)
Goals of the Strategic Plan

The University of Kentucky College of Dentistry has six primary goals listed in its strategic plan:

**Goal 1: Reach for National Prominence**

- The College will increase the role of faculty scholarship.
- The College will enhance the excellence and sustainability of the clinical enterprise.
- The College will strengthen the link between funding decisions, plans and results.
- The College will streamline its business and information technology services.

**Goal 2: Recruit and graduate outstanding students through distinguished academic programs and interdisciplinary curricula**

- The College will admit and enroll an increasingly higher caliber of student.
- The College will engage its professional students in rigorous educational programs and provide an environment conducive to success.

**Goal 3: Attract, develop, and retain a distinguished faculty and staff**

- The College will offer competitive salaries and benefits to attract and retain distinguished faculty.
- The College will offer competitive salaries and benefits to attract and retain superior staff.
- The College will institute policies to attract and retain a distinguished faculty.
- The College will strengthen support to faculty and staff.
- The College will increase the recruitment and support of high-profile faculty capable of conducting influential scholarship and leading major scholarly initiatives.

**Goal 4: Discover, Share, and Apply New Knowledge**

- The College will pursue targeted strategies to increase extramural research funding.
- The College will provide the facilities and equipment necessary to enhance research capacity.
- The College will cultivate the success of diverse efforts in scholarly achievement and research.
- The College will attract and enroll highly qualified doctoral students and postdoctoral scholars.

**Goal 5: Nurture Diversity of Thought, Culture, Gender and Ethnicity.**
• The College will improve the climate for diversity.
• The College will create a diverse workplace and learning community.

**Goal 6: Elevate Quality of Life for Kentuckians**

• The College will continue to engage its people and resources in a continued commitment to outreach.
• The College will collaborate with the College of Agriculture Extension Service and 4-H programs and other stakeholders to increase the numbers of dental applicants and dental students from rural Kentucky and underserved urban areas.
• The College will increase its dental outreach programs, consultations and collaborative activities with other community partners to improve dental access for underserved children and adults.
• The College will develop new delivery and financing models and clinical protocols for oral health prevention and treatment that improve access and improve health.
• The College will increase community-based applied research partnerships that target oral health and general health disparities in Kentucky.
Academic Structure
The College of Dentistry is located in a six-story wing of the University of Kentucky Chandler Medical Center. The College's physical facilities include patient care operatories, technique laboratories, classrooms, conference rooms, and faculty and administrative offices. There are 200 patient care operatories providing support for all dimensions of the College's programming.

In keeping with the College's commitment to progress and innovation, new equipment and facilities are continually being introduced to enhance the education of student dentists. Nearly all of the College's clinical operatories recently have been renovated.

- **DMD Student Clinics**: Recently renovated clinics give UK one of the most modern teaching facility in the United States. Each operatory is designed to meet high infection control standards. Operatories feature chairs that allow for computerized patient positioning, articulating lights, fiber optic units, and photopolymerization units for curing biomaterials. In anticipating the future, the College included provisions for connecting electric handpieces into the 60 operatories. UK is the first institution in the nation with these new features in its clinics. Similar equipment also has been added in oral radiology, orthodontics, and pediatric dentistry. An additional feature in the renovation included preclinical simulations using mannequins in a clinical setting. Also, all operatories on the third floor were wired with ethernet to provide a gateway to the internet and to build a foundation for an electronic patient record. Phase I of the Axium Clinic information systems was initiated in 2005-06.

![Robert Kovarik, D.M.D.](image)

**PROFILE**

Robert Kovarik, D.M.D.

Dr. Kovarik is an associate professor in the Department of Oral Health Practice, Restorative Section and chair of the Department of Oral Health Practice. He received a bachelor's degree in material science engineering from Vanderbilt University and a doctor of dental medicine degree from the University of Kentucky College of Dentistry in 1982. After practicing dentistry for five years in the greater Cincinnati area, he joined the faculty at the Medical College of Georgia School of Dentistry. While on the faculty there, he earned a master's degree in oral biology.

“I returned to teach full-time at the University of Kentucky College of Dentistry because I enjoy the collegiate atmosphere here. This school has a long tradition of treating students with respect and providing a very positive learning environment for both students and faculty. I have never visited or been associated with a dental school that provides a better learning environment for its students.”

continue
- **Technique Lab**: The preclinical technique lab and adjacent support labs also have been renovated to include the most modern laboratory equipment. All workbenches have a dust collector and electric and air-driven handpiece controllers. The instructor podium has access to centralized audio/visual services, the internet, and custom in-room audio/visual equipment.

- **Faculty Clinic**: The faculty clinic was renovated in 1995 to provide eight operatories for College of Dentistry faculty to provide comprehensive dental care to private patients, University employees, and their families.

- **Student Lounge**: Student dentists have a newly renovated area containing 210 lockers, seating for 20 students and a kitchen equipped with a microwave and refrigerator. Pentium computers with ethernet access are also available for student use.

- **Oral and Maxillofacial Surgery Clinic**: Recent renovations and expansions have nearly doubled the College’s clinical facilities in oral and maxillofacial surgery. The clinic now contains 10 operatories, including two large operating rooms for general anesthesia and extensive surgery. The renovation also added space for a student case presentation area, nursing station, resident room, and conference room.

- **Center on Implantology**: The Center on Implantology includes three operatories and an operating room for implant prosthetics and surgery. The oral and maxillofacial surgery, periodontics, and prosthodontics divisions.

- **Kentucky Clinic**: The Kentucky Clinic, a comprehensive ambulatory care center, contains a dental facility with 21 patient care operatories. It is connected to the UK hospital by a covered skywalk, as is the College of Nursing and Health Sciences Learning Center. The top floor of the six-story building contains an audio-visual library and multimedia retrieval study area. The self-instructional programs in the curriculum, which are in the form of computer digitized slides, audio tapes, slide tapes, slide text and videocassettes, are

  *Engrained in our College of Dentistry is an environment whereby teachers and students work together as colleagues for the common goal of providing a modern education in dentistry and quality dental care for our patients at the college. Not only is this environment more enjoyable to students, but it is also more enjoyable and rewarding to faculty and that is why I am a faculty member here at UKCD.”*

  Dr. Kovarik maintains a private practice in the faculty practice clinic, teaches operative dentistry, and participates in research. His research interests are in posterior filling materials and in bonding procedures. “I think of the University of Kentucky College of Dentistry as being a clinically oriented school where you can get a very good education in the actual practice of dentistry (clinical dentistry). However, during the past several years we have become even broader in our educational focus. We provide an outstanding education in the basic sciences and more and more of our students are participating in research which is the foundation of everything we teach. In research, we are constantly discovering better materials and techniques. This translates into better teaching and better patient care.”
available as well is the equipment necessary for their use. The library also has a microcomputer laboratory and a computer classroom with 55 power personal computers.

• **Center for Oral Health (COHR):** in the College of Dentistry of the University of Kentucky was officially approved by the UK Faculty Senate on March 6, 2000. This action brought into reality an initiative started by the administration and faculty of the UKCD in 1997. It created a focus and research infrastructure for the College, which linked it with the Medical Center and the larger UK academic environment. Moreover, the COHR will help to position the UKCD as a leader in accomplishing the goal of UK to become a top 20 institution by 2020. Since 2000, with the creation of the COHR, UKCD research funds have increased to ~$2.5 million/year, a 157% increase. The COHR has propelled the UKCD from near last in NIDCR funding to near the top 20 for 2003. These accomplishments reflect a near 4-fold increase in grant submissions and a >3-fold increase in publications. Another measure of research expertise is the emphasis of the research activities in the UKCD to link with other aspects of the UK academic environment, as well as with national collaborators. These increases were accompanied by substantial increases in collaborative research funds that nearly doubled those awards primarily to faculty in the UKCD.

• **The UK Chandler Medical Center Library:** contains more than 160,000 volumes and receives about 2,000 serial titles. Individual carrels and group study rooms are available for Medical Center students and staff.

Several facilities outside the Medical Center also are used for teaching by the College of Dentistry. These include various state and federal institutions such as the Veterans Affairs Medical Center, which has two locations and many practitioner offices throughout Kentucky. The College also has a self-contained, 40-foot mobile dental unit featuring three operatories which provides dental services to children from low-income families. With this facility, the College has expanded its pediatric services and affords student dentists broader clinical experiences.

**Office of Admissions and Student Affairs**

The College of Dentistry’s Office of Admissions and Student Affairs is organized to support the educational objectives and programs of the College by aiding and enriching student learning and contributing to the welfare and individual growth of students.

The office offers a wide range of services, activities, and programs which include:
• pre-dental advising and admissions counseling
• admission services/application processing
• student financial aid and debt management counseling
• career planning
• registration and academic records keeping
• curriculum support
• tutorial assistance
• testing services (National Board exams)
• academic and personal counseling
• assistance to classes and student organizations
• transcript service and letters of
• liaison and referral to other UK offices (Housing, Health Service, Counseling Center, Student Billing Services, Students Affairs Division, Registrar, etc.)

The Medical Center Library contains more than 160,000 volumes and receives about 2,000 serial titles. Individual carrels and group study rooms are available for Medical Center students and staff.
D.M.D. Program

Admissions

The College of Dentistry seeks to enroll individuals whose academic preparation, personal qualities, and other qualifications suggest that they will experience success in the curriculum and afterwards in the dental profession. Currently 40 resident applicants and 16 non resident candidates are admitted to the entering class each year.

Prospective applicants are encouraged to contact the Office of Admissions and Student Affairs early in their undergraduate careers for guidance on admission requirements. The College desires applicants who have the requisite academic preparation to meet the challenges of a rigorous curriculum. In addition to earning a bachelor’s degree, these individuals should complete courses in both science and non-science subject areas to increase their likelihood of success in the dental program. Although many applicants each year major in the biological and natural sciences, students who pursue studies in other majors also are invited to apply for admission.

The criteria considered by the Admissions Committee includes the quality of the applicant’s pre-professional preparation, Dental Admission Test (DAT) scores, knowledge of and exposure to the dental profession, letters of recommendation and other relevant factors. Timing is always an important element in the application process.

PROFILE

Gaston Toolo

2006 UKCD graduate Gaston Toolo, a native Of Cameroon in Central Africa, has great ambitions for his UK College of Dentistry education. “My dream is to one day build a dental school for the central Africa region,” Toolo said recently. “Ideally, it would be part of the University of Yaounde in Cameroon.”

Gaston came to UK in August 2002 after completing his bachelor’s degree in biochemistry/chemistry at Portland (OR) State University in 1999, and then teaching 9th-12th grade at Rosemary High School. “I looked at UK’s program, and the main thing that made me look closer was its emphasis on equal opportunity. My personal experience has taught me there’s a real need for dentists in inner city arenas,” he said.

Toolo was attracted to the dentistry profession by its demands. “Dentistry requires clinical and ethical judgment, and the ability to make decisions based on cases. It is true science that involves a lot of different disciplines You’ve got to be a true dentist who consults with his patient, provides alternatives and puts into the equation the social aspect that benefits both the patient and community” he said.
Undergraduate Prerequisite Coursework

The College is convinced that certain course work on the undergraduate level is necessary for quality performance in dental school. Therefore, the following courses are required for matriculating students:

- two semesters or three quarters of biology with laboratories;
- two semesters or three quarters of general chemistry with laboratories;
- two semesters or three quarters of organic chemistry with laboratories;
- one semester or two quarters of general physics with laboratory;
- two semesters or three quarters of English with emphasis on communications

Prerequisite course work must be taken for a grade option, not pass-fail. Applicants are encouraged to pursue a well-rounded curriculum including courses both in the sciences and the humanities. Applicants are encouraged to take additional basic science courses. Examples or courses that will be helpful include anatomy (human), biochemistry, cell biology, embryology, genetics, histology, immunology, molecular biology, and physiology (animal and/or human) but only after degree requirements have been completed. An applicant’s curriculum will be enriched if it also includes courses in the social sciences, history, literature, economics, philosophy, and psychology.

The College uses a "rolling admissions system" whereby applicants are interviewed beginning in September, the first offers of admission are made on Dec. 1, and the Admissions Committee continues to interview applicants until the class is filled.
Technical Standards for Dental Students

Policy Objective

To define the non-academic criteria for admission into, continued enrollment in, and graduation from the Doctor of Dental Medicine program.

Policy Statement:

The University of Kentucky College of Dentistry is committed to ensuring that the opportunity to pursue oral health education is available to all qualified persons. In this spirit, all qualified individuals will be considered for admission. Moreover, the College will work to ensure that all qualified students, consistent with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act, will have the opportunity to succeed in the College’s programs of study.

The College recognizes that the Doctor of Dental Medicine (D.M.D.) degree carries with it the full authority of the institution and communicates to those who might seek the services of the bearer that he or she is competent to practice dentistry. The D.M.D. degree is unique in that the graduate is prepared and, when licensed, is allowed to practice all disciplines of the dental profession. Therefore, the student must demonstrate the knowledge, skills, and attitudes that the faculty has determined are essential for the practice of dentistry. The student must acquire both cognitive and technical skills to negotiate the curriculum.

The following technical standards describe the essential functions that students must demonstrate in order to fulfill the requirements of a general dental education, and thus, are prerequisites for entrance, continuation, and graduation from the College. Students must possess the skills and abilities that will allow them to successfully complete the course of study and receive the full benefit of dental education. While enrolled in dental school, students must direct

PROFILE

Dr. Stan Ferguson, D.M.D., M.S.
UKCD – Class of 1992

Dr. Stan Ferguson is a 1992 graduate of the University of Kentucky College of Dentistry, and completed a Master’s in orthodontics in 1995. He currently practices in Lexington, KY and is a past president of the UKCD Alumni Association.

During Dr. Ferguson’s tenure, alumni have been actively involved with the College of Dentistry, including fund raising for scholarships, fall symposiums and alumni reunions, and the purchasing of white coats for each new entering class.

“It has been my pleasure to have served as President of the UK College of Dentistry Alumni Association, and to watch our membership grow. We welcome Dr. Turner to the College as the new Dean, and look forward to the exciting times ahead for the College. My affiliation with UK has been very fulfilling, and I welcome and encourage all prospective dentists to consider the many benefits of the University of Kentucky.”
and perform treatment of the College’s patients. The College has the responsibility for ensuring the safety of the patients. Treatment must be completed safely and within an acceptable time.

The University of Kentucky College of Dentistry will consider for admission any applicant who demonstrates the ability to perform or to learn to perform the skills listed in this document. Continued enrollment and graduation will depend on the successful demonstration of both the knowledge and the skills listed in this document. The College’s Academic Performance Committee will monitor each student’s demonstration of such knowledge and skills. Applicants are not required to disclose the nature of their disability(ies) to the Admissions Committee; however, any applicant with questions about these technical standards is strongly encouraged to discuss the issue with the Admissions Committee Chair before the interview. Upon the request of an applicant or a student, reasonable accommodations will be provided. The ability to meet the following standards is a requirement for admission to the University of Kentucky College of Dentistry.

Technical Standards for Admissions For The University of Kentucky College of Dentistry

1. Motor Skills

GENERAL: A student should have sufficient motor function to execute movements reasonably required to provide general care to patients.

SPECIFIC: A student must possess the motor skills to directly perform palpation, percussion, auscultation and other diagnostic maneuvers, basic laboratory tests, and diagnostic procedures. Such actions require coordination of gross and fine muscular movements, equilibrium, and functional uses of the senses of touch and vision.

SPECIFIC: A student must be able to perform basic life support including CPR, transfer and position disabled patients, physically restrain adults and children who lack motor control, and position and reposition himself or herself around patient and chair in a sitting or standing position. A student must not hinder the ability of co-workers to perform prompt care. A student must be able to operate controls, move high-speed or low-speed dental drills with precision of less than one millimeter, and use hand instrumentation including scalpels for surgical procedures.

2. Sensory/Observation

GENERAL: A student must be able to acquire a predetermined level of required information through demonstrations and experiences in basic and dental science courses.

SPECIFIC: Such information includes, but is not limited to, information conveyed through:
1) physiologic and pharmacological demonstrations in animals;
2) microbiological cultures;
3) microscopic images of microorganisms and tissues in normal and pathologic states; and
4) demonstration of techniques using dental models. A student must be able to acquire information from written documents, and to evaluate information presented as images from paper, films, slides, or video.
5) A student must be able to interpret x-ray and other graphic images. A student must be able to benefit from electronic and other instrumentation that enhances visual, auditory, and somatic sensations needed for examination or treatment.

**GENERAL:** A student must be able to accurately observe a patient, at a distance and close at hand, and observe and accurately interpret non-verbal communications when performing dental operations or administering medications.

**SPECIFIC:** A student must be able to perform dental examinations and treatment that requires the use of sight and touch. He or she must be able to see fine detail, focus at a variety of distances, and discern differences and variations in color, shape, and texture that are necessary to differentiate normal and abnormal soft and hard tissues. He or she must be able to use tactile senses to diagnose directly by palpation and indirectly by sensations transmitted through instruments. A student must also possess the visual acuity to read charts, records, radiographs, small print and handwritten notation, and distinguish colors intra- and extra-orally.

### 3. Communication

**GENERAL:** A student must be able to: communicate effectively and sensitively with patients; convey or exchange information at a level allowing development of a health history; identify problems; explain alternative solutions; and give directions during treatment and post-treatment. Communication includes speech and writing. A student must be able to communicate effectively and efficiently in oral and written English with all members of the health care team.

**SPECIFIC:** A student must have sufficient facility with English to: retrieve information from texts and lectures and communicate concepts on written exams and patient charts; elicit patient backgrounds; describe patient changes in moods, activity, and posture; and coordinate patient care with all members of the health care team. A student must be able to communicate in lay language so that patients and their families can understand the patient’s conditions and, thereby, be more likely to comply with treatment and preventive regimes.
SPECIFIC: In any case where a student's ability to communicate through these sensory modalities is compromised, he or she must demonstrate alternative means of communicating with instructors, patients, and other members of the health care team.

4. Cognitive

GENERAL: A student must be able to measure, calculate reason, analyze, integrate, and synthesize.

SPECIFIC: A student must be able to comprehend three-dimensional relationships and to understand the spatial relationships of structures. Problem solving, a critical skill demanded of dentists, requires all of these intellectual abilities. A student must be able to perform these problem-solving skills in a timely fashion.

5. Behavioral

GENERAL: A student must possess the emotional health required for full use of his/her intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the diagnosis and care of patients, and the development of mature, sensitive, and effective relationships with patients.

SPECIFIC: A student must be able to tolerate physically taxing workloads and to function effectively under stress. He or she must be able to adapt to changing environments, display flexibility, and learn to function in the face of uncertainties inherent in the clinical problems of patients. Compassion, integrity, concern for others, interpersonal skills, interests, and motivation are all personal qualities that will be assessed during the admissions and educational processes. A student must be able to manage apprehensive patients with a range of moods and behaviors in a tactful, congenial, personal manner so as not to alienate or antagonize them. A student must be able to accept criticism and respond by appropriate modification of behavior.

Application Process

An application for admission may be obtained from the American Association of Dental Schools Application Service (AADSAS). Candidates for admission are encouraged to apply early to receive the strongest consideration. The AADSAS electronic application becomes available on May 15. You may contact AADSAS at:

Internet: http://www.adea.org
Telephone: (202) 789 7201
Address: AADSAS
1400 K Street NW, Suite 1100.
Washington, D.C. 20005
The College uses a “rolling admissions system” whereby applicants are interviewed beginning in September, the first offers of admission are made on Dec. 1, and the Admissions Committee continues to interview applicants until the class is filled. The membership of the entering first-year class is usually confirmed by early February. Candidates who apply early in the admissions cycle are at a distinct advantage over those who wait much later to submit their AADSAS application and other credentials. The Office of Admissions and Student Affairs can provide applicants information and sound advice to insure that they complete the process in a timely way.

**Transcripts**

An official transcript from each college or university attended must be enclosed when candidates send in their AADSAS application. A final transcript is required prior to matriculation for all applicants who have been offered admission and who will enroll.

**Letters of Evaluation**

Three letters of evaluation must be included in each candidate’s admission credentials from individuals who are able to provide information regarding the applicant’s potential for success in the dental curriculum. Two letters should come from faculty members and/or preprofessional advisors. The third letter may come from another faculty member, a dentist or someone else who knows the applicant well and can provide an assessment of the individual’s academic qualifications, personal qualities and potential. A preprofessional committee evaluation of a candidate may be substituted for the three letters. Applicants may forward the letters to AADSAS when they submit their packets.

**Dental Admission Test**

Every applicant must take the Dental Admission Test (DAT) and have the results forwarded to the College. The DAT scores are considered, along with a candidate’s academic record and other criteria, in the admissions decision.

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**PROFILE**

Sharon P. Turner, D.D.S., J.D.,
Dean of the University of Kentucky College of Dentistry

“I came to UK as Dean for several reasons. First, I was impressed by the fact that the State of Kentucky has made a serious commitment to enhancing higher education in the state on the premise that such an enhancement would advance the economy and the quality of life for Kentuckians. Secondly, at the College level I saw a very fine clinical school with a reputation for innovativeness in educational methodologies, a collegial atmosphere among faculty, staff and students, a new research program that was taking off like a rocket, and solid financial base. And finally, in Lexington I found the “college town” atmosphere that I so loved during my many years in Chapel Hill, North Carolina.

In fact, the uniqueness of finding arts and sciences, fine arts, engineering, law, agriculture and health affairs all in one campus really intrigued me. Here you find one of the best opera departments in the country along with nationally recognized agriculture and engineering programs. And being a big basketball fan, it was fun to get back where there are passionate fans like myself!”
The examination is offered nationwide by computer through Prometric Testing Centers. The DAT results should not be more than two years old and the highest set of scores will be used. Information on the DAT is available by contacting the American Dental Association at Internet:

www.ada.org
Telephone: (312) 440-2689
Address: Dental Admission Testing Program
American Dental Association
211 East Chicago Ave.
Chicago, IL 60611-2678

Interviews

Only the most competitive applicants are invited to participate in an interview at the College of Dentistry. Interviews are scheduled on specific dates throughout the admissions cycle. All application materials must be received by the Admissions Coordinator before an interview can be scheduled. Since Dec. 1 is the AADSAS national notification date, well-qualified applicants who interview prior to this date have a greater likelihood of being offered admission than those who interview afterwards.

Residency Status

The Council on Postsecondary Education oversees the residency requirements for all public colleges and universities within the Commonwealth of Kentucky. These requirements are listed in the University of Kentucky Bulletin. Questions regarding residency status should be referred to the University’s Registrar Office at http://www.uky.edu/Registrar/.

Personal Health

In accordance with American Dental Association standards, all students must be able to demonstrate prior to and throughout their enrollment that they are physically and mentally qualified to undertake dental studies. The College’s technical standards policy is available from the Office of Admissions and Student Affairs. Each student must submit a medical history form and an immunization record at the time of matriculation. All applicants meeting the appropriate academic requirements and technical standards shall be considered equally for admission to any academic program regardless of race, color, religion, sex, marital status, beliefs, age, national origin, sexual orientation, or disability.

Cost of Attendance

Tuition and fees for the 2007-8 academic year are $21,274 for Kentucky residents and $44,854 for non-residents. Expenditures for instruments and their sterilization, books, clinic
attire, and CPR comprise the remainder of the required curriculum expense. The tuition and fees are subject to change.

**Student Financial Aid**

Primary responsibility for meeting the cost of dental education rests with the student dentist and his or her family. However, the College’s Financial Aid Coordinator, located in the College of Dentistry, assists students in making application for various types of financial assistance. The major sources of funding are loan programs administered by the federal government. Eligibility for financial aid is determined by the following formula:

\[
\text{Cost of Attendance (curriculum & living expenses) minus Expected Family Contribution (as measured by federal formula) equals Financial Need}
\]

The Financial Aid Coordinator, who is a member of the Office of Admissions and Student Affairs, endeavors to meet the demonstrated financial need of all student dentists to the extent of available funds. Since school managed funds are limited, awards from these sources will be determined on the basis of in-state tuition and parent information on the federal application.

About 95 percent of enrolled student dentists qualify for and receive some type of financial assistance. Applicants wishing to investigate financial aid options are encouraged to consult the financial aid coordinator. Financial need is not a criterion for admission to the College of Dentistry.

Additional information on loans, scholarships and work-study programs can be obtained by accessing the UK webpage on financial aid under “Prospective Students.”

Any question related to financial aid should be directed to:

**Office of Admissions and Student Affairs**

University of Kentucky
College of Dentistry
D-155 UK Chandler Medical Center
Lexington, KY 40536-0297
Telephone: (859) 323-6071
Fax: (859) 323-5550
Email: dbrow@uky.edu
Career Planning and Counseling

Student dentists receive formal instruction in the investigation and development of career options and practice planning during all four years of the curriculum. Faculty and staff participate in counseling student dentists. The College maintains career resource information on the distribution of dental manpower and demographic data on all Kentucky counties; limited information regarding other states is also available. The College also provides counseling and placement referral services to student dentists and practitioners. Most individuals incur some indebtedness to help finance their dental education. Since the amount of educational loans received affects the career options available at graduation, debt management counseling is offered throughout the period of enrollment.

Withdrawal and Refund Policy

A student may withdraw from the College of Dentistry at any time. The official withdrawal date is designated as the date the College of Dentistry Registrar receives a written request for withdrawal. If a student officially withdraws from the College of Dentistry, tuition will be adjusted as determined by University regulations using the date the written request was received.

Tuition refunds for students who officially withdraw through the College’s Registrar will be made according to the following schedule: withdraw before the first day of class, 100 percent refund (for first-year students; this does not include the $250 instate/$1000 out of state) enrollment confirmation fee); withdrawal between first day of class to last day to add a class, 80 percent refund; withdrawal after last day to add a class until mid-term date, 50 percent refund; withdrawal after mid-term date, no refund.

PROFILE

Maria Bustamante, D.M.D.-2004

The Hispanic Dental Association (HDA) at the University of Kentucky received national recognition at the 2004 American Dental Education Association’s annual meeting in Seattle, Washington. Maria Bustamante was selected to present on behalf of the UK association at the Quest for Excellence in Dental Education Symposium: Student Excellence in Education and Service.

The project “Spanish Classes for Dental Personnel” involved current HDA dental students teaching UK students and staff basic Spanish phrasing to better serve the growing Hispanic population in the Lexington, Kentucky area. The entry was judged to be one of the most interesting and exciting examples of excellence in student-led projects. The abstract, the system used in evaluating the success of the project, and the specific results and outcomes of Bustamante’s program will be published in the 2004 edition of “Passport to Excellence in Dental Education.”

Maria is a 2004 graduate of the University of Kentucky College of Dentistry and is a general practice resident in Chicago, Illinois.
Refunds are based solely on the date of withdrawal, regardless of whether or not students attend any class (es). No refunds are made automatically. Students must request a refund through the Registrar by the last day of the term in which they officially withdrew.

A student not paying tuition/fees and subsequently leaving or officially withdrawing from school will be held liable for half of those fees. In the case of nonpayment, he or she will be declared delinquent and subject to the penalties imposed by the institution for financial delinquency.

**Academic Affairs**

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**The Curriculum**

The University of Kentucky College of Dentistry, in meeting its responsibility to the Commonwealth, the University, the dental profession and the student, is dedicated to the education of a dentist who meets defined levels of skills and knowledge and has demonstrated ethical behavior and judgment that will benefit the public. The content and sequencing of the curriculum is maintained so that students should be able to complete the curriculum satisfactorily in four years and be awarded the degree of Doctor of Dental Medicine (D.M.D.).

The College of Dentistry offers a curriculum that prepares the student for the general practice of dentistry. Since the health needs of Kentucky and the nation are constantly changing, an effective curriculum in dentistry requires relatively frequent revision of courses and requirements. For this reason, the curriculum described in this bulletin is subject to change from year to year, not only in content and sequencing but also in the educational methodology utilized.

The dental curriculum is composed of four categories of study: biological sciences, behavioral science, preclinical dentistry, and clinical dentistry. Courses in these areas may be taught by lecture, seminar, self-instruction or any combination of the above formats. Laboratory and clinical settings provide supplemental learning experiences for the didactic information which the students receive.

In the clinical setting, students treat patients under the supervision of the clinical faculty. Comprehensive dental care for the patient is emphasized and so, because of the varying needs of individual patients, the objectives of each clinical treatment experience by each student will vary. The concept of comprehensive dental care permits learning experiences in all the clinical disciplines of dentistry.

Students, faculty and staff of the College of dentistry are expected to adhere to the Code of Professional and Academic Responsibility, and the Medical Center’s Behavioral Standards in Patient Care, and The Health Sciences Student Professional Behavior Code. These documents call for high standards of professional and human behavior in caring for patients.
Extramural experience in dental practice is a required component of the curriculum. Students are placed in the offices of dental practitioners, public institutions or other health delivery systems in AHEC approved urban and rural areas throughout the state of Kentucky. One of the goals of the extramural experience is to provide the student with a view of dentistry as it is actually practiced.

In addition to the core, or required curriculum, the College offers a number of elective courses in a variety of biological and clinical dentistry subjects. Electives provide an effective way to satisfy the individual needs and interests of the students. Fourth-year students are required to take two elective courses. Enrollment in additional elective courses requires the approval of the course director and the appropriate Academic Performance Committee.

During the course of study, any student may be denied permission to continue in the formal educational program if, in the opinion of the faculty and administration, that student's character, attitudes, mental or physical fitness cast grave doubt upon the student's capabilities as a dentist. The Doctor of Dental Medicine degree is awarded to those students who have satisfactorily completed every required component of the dental curriculum and have applied for graduation.

**First Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ANA 530</td>
<td>Combined Histology and Special Oral Microanatomy</td>
</tr>
<tr>
<td>ANA 534</td>
<td>Dental Gross Anatomy and Embryology</td>
</tr>
<tr>
<td>ANA 538</td>
<td>Dental Neuroanatomy</td>
</tr>
<tr>
<td>CDE 814</td>
<td>Patients, Dentists and Society I</td>
</tr>
<tr>
<td>CDE 815</td>
<td>Fundamentals of Dental Public Health</td>
</tr>
<tr>
<td>CDS 812</td>
<td>Normal Human Growth and Development</td>
</tr>
<tr>
<td>CDS 813</td>
<td>Management I: Intro to Management for the Dentist</td>
</tr>
<tr>
<td>CDS 815</td>
<td>Introduction to Clinical and Community Practice</td>
</tr>
<tr>
<td>CDS 818</td>
<td>Profession of Dentistry I</td>
</tr>
<tr>
<td>CDS 819</td>
<td>Special Topics in Dentistry</td>
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<tr>
<td>CDS 821</td>
<td>Local Anesthesia</td>
</tr>
<tr>
<td>CDS 824</td>
<td>Introduction to Oral Diagnosis and Planning (Lecture)</td>
</tr>
<tr>
<td>OBI 812</td>
<td>Dental Biochemistry</td>
</tr>
<tr>
<td>OBI 814</td>
<td>Dental Physiology</td>
</tr>
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</tr>
<tr>
<td>ODM 820</td>
<td>Oral and Maxillofacial Radiology and Diagnostic Imaging</td>
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<td>PER 810</td>
<td>Periodontics I</td>
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<tr>
<td>PER 820</td>
<td>Periodontics II</td>
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<td>RSD 810</td>
<td>Fundamentals of Operative Dentistry I</td>
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<tr>
<td>RSD 811</td>
<td>Principles of Dental Anatomy, Morphology and Occlusion Lecture</td>
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<td>RSD 812</td>
<td>Principles of Dental Anatomy, Morphology and Occlusion Lab</td>
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<td>RSD 814</td>
<td>Preclinical Operative Dentistry I</td>
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<td>RSD 816</td>
<td>Esthetic Dentistry I</td>
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<td>RSD 818</td>
<td>Preclinical Esthetic Dentistry I</td>
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**Second Year**

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<th>Course Code</th>
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<tbody>
<tr>
<td>ANA 536</td>
<td>Human Embryology, an Abbreviated Course</td>
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<tr>
<td>CDE 824</td>
<td>Communication in the Dental Health Care Setting</td>
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<tr>
<td>CDS 822</td>
<td>Gerontology/ Geriatric Dentistry</td>
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<tr>
<td>CDS 823</td>
<td>Management II: Intro to Clinical Patient Management</td>
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<tr>
<td>CDS 824</td>
<td>Intro to Oral Diagnosis and Treatment Planning (Lab)</td>
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<tr>
<td>CDS 828</td>
<td>Profession of Dentistry II</td>
</tr>
<tr>
<td>END 820</td>
<td>Anterior Endodontics</td>
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<tr>
<td>END 821</td>
<td>Clinical Endodontics I</td>
</tr>
<tr>
<td>END 822</td>
<td>Posterior Endodontics</td>
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<tr>
<td>OBI 828</td>
<td>Immunity, Infection and Disease for the Student Dentist</td>
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<td>OBI 829</td>
<td>Oral Biology</td>
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<td>ODM 821</td>
<td>Clinical Oral Diagnosis I</td>
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<tr>
<td>OPT 820</td>
<td>General Pathology for Student Dentists</td>
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<tr>
<td>ORT 822</td>
<td>Orthodontics I</td>
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<tr>
<td>OSG 820</td>
<td>Oral Surgery I</td>
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<tr>
<td>PDO 822</td>
<td>Pediatric Dentistry I</td>
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<tr>
<td>PER 821</td>
<td>Clinical Periodontics II</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>PRO 820</td>
<td>Preclinical Complete Denture Prosthodontics Lecture</td>
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<td>PRO 821</td>
<td>Clinical Complete Denture Prosthodontics</td>
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<td>PRO 822</td>
<td>Preclinical Complete Denture Prosthodontics Laboratory</td>
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<td>PRO 824</td>
<td>Removable Partial Dentures</td>
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<td>RSD 821</td>
<td>Clinical Restorative Dentistry I</td>
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<td>RSD 822</td>
<td>Principles of Dental Occlusion and Articulation</td>
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<td>RSD 823</td>
<td>Preclinical Restorative Dentistry II</td>
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<td>RSD 824</td>
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<td>RSD 826</td>
<td>Preclinical Restorative Dentistry II Laboratory</td>
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**Third Year**

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<th>Course Design</th>
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<tr>
<td>CDE 830</td>
<td>Advanced Concepts in Dental Public Health</td>
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<tr>
<td>CDS 831</td>
<td>Conscious Sedation</td>
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<tr>
<td>CDS 833</td>
<td>Management III: Clinical Patient Management</td>
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<tr>
<td>CDS 835</td>
<td>Dental Implantology</td>
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<tr>
<td>CDS 838</td>
<td>Profession of Dentistry III</td>
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<tr>
<td>END 830</td>
<td>Endodontics II</td>
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<td>END 831</td>
<td>Clinical Endodontics II</td>
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<td>OBI 836</td>
<td>Dental Pharmacology and Therapeutics</td>
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<td>ODM 830</td>
<td>Management of the Medically Compromised Patient</td>
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<td>Clinical Oral Diagnosis II</td>
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<td>OPT 830</td>
<td>Oral Pathology I</td>
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<tr>
<td>OPT 832</td>
<td>Oral Pathology II</td>
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<td>ORT 830</td>
<td>Orthodontics II</td>
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<tr>
<td>OSG 830</td>
<td>Oral Surgery II</td>
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<td>OSG 831</td>
<td>Oral Surgery Rotation I</td>
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<tr>
<td>PDO 831</td>
<td>Clinical Pediatric Dentistry I</td>
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</tbody>
</table>
PDO 834  Pediatric Dentistry II  
PER 830  Periodontics III  
PER 831  Clinical Periodontics III  
PRO 830  Advanced Removable Prosthodontics  
PRO 831  Clinical Removable Prosthodontics  
PRO 834  Preclinical Restorative Dentistry III  
PRO 836  Principles of Fixed Prosthodontics  
RSD 827  Dental Biomaterials  
RSD 831  Clinical Restorative Dentistry II  
RSD 835  Advanced Esthetics in Restorative Dentistry  

**Fourth Year**

<table>
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<tr>
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<tbody>
<tr>
<td>CDE 841</td>
<td>Dental Practice and Field Experience</td>
</tr>
<tr>
<td>CDE 844</td>
<td>Dental Practice Management II</td>
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<tr>
<td>CDS 843</td>
<td>Management IV: Clinical Patient Management</td>
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<tr>
<td>CDS 844</td>
<td>Drug Misuse, Abuse and Dependency: What Dentists Need to Know</td>
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<tr>
<td>CDS 846</td>
<td>Diagnosis and Management of Facial Pain</td>
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<td>END 841</td>
<td>Clinical Endodontics III</td>
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<tr>
<td>ODM 841</td>
<td>Clinical Oral Diagnosis III</td>
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<tr>
<td>OPT 840</td>
<td>Oral Pathology III</td>
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<tr>
<td>ORT 841</td>
<td>Clinical Orthodontics</td>
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<tr>
<td>OSG 841</td>
<td>Oral Surgery Rotation II</td>
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<tr>
<td>PDO 841</td>
<td>Clinical Pediatric Dentistry II</td>
</tr>
<tr>
<td>PER 841</td>
<td>Clinical Periodontics IV</td>
</tr>
<tr>
<td>PRO 841</td>
<td>Advanced Clinical Removable Prosthodontics</td>
</tr>
<tr>
<td>RSD 840</td>
<td>Restorative Dentistry Update</td>
</tr>
<tr>
<td>RSD 841</td>
<td>Clinical Restorative Dentistry III</td>
</tr>
</tbody>
</table>
Evaluation and Grading

Students have the right to receive grades based only upon a fair and just evaluation of their performance in a course as measured by the standards announced by their instructor(s) at the first or second class meeting of each course. This information should also appear in the course syllabus (i.e. nature of the course, the content, the activities to be evaluated, the grading practice to be followed, and the attendance policy). Evaluations by anything other than a good faith judgment based on explicit statements of the above standards are improper. Students who believe that grades have not been assigned in a fair and impartial manner have the right to seek review and/or appeal of the grade.

Approved by the University Senate on November 8, 1999, the grading system (A, B+, B, C, and E plus I, W, and P/F) applies to all students.

Course directors will evaluate the performance of each student on course objectives and assign a grade as follows:

1. **Passing Grades:**
   - **A** = Exceptionally high level of performance; four (4) quality points are awarded for each credit hour.
   - **B+** = A high level of performance; three and one-half (3.5) quality points are awarded for each credit hour.
   - **B** = The minimum expected level of performance; three (3) quality points are awarded for each credit hour.
   - **C** = A marginal level of performance; two (2.0) quality points are awarded for each credit hour.
   - **P** = A passing grade in courses taken on a pass-fail basis. It is not used in G.P.A. calculations.

2. **Failing Grades:**
   - **E** = An unacceptable level of performance; zero (0) quality points are awarded for each credit hour.
   - **F** = Represents an unacceptable level of performance in courses taught on a pass/fail basis. It is not used in G.P.A. calculations.
3. **Incomplete Grade:**
   I = Course objectives have not been completed during the allotted course time due to circumstances usually beyond the student’s control. An I grade shall be given only when there is a reasonable possibility that a passing grade will result when work is completed. An I must be replaced by another grade within 12 months or before graduation, whichever occurs sooner. After this period, an I grade will automatically convert to an E or an F grade as appropriate.

   Note: A written report must accompany the I grade. The report shall include the reasons for issuing the I and the work that the student must complete to receive a passing grade.

4. **Withdrawal:**
   W = This grade will be awarded to a student who withdraws from a course or from the College. It shall be awarded only after recommendation by the Academic Performance Committee and approval by the Dean.

   *Note: Withdrawal from any course will usually result in a delay in the student’s completion of the curriculum.*

   Questions regarding policies may be directed to Dr. Karen West, Associate Dean for Academic Affairs (323-5656).

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**Academic and Tutorial Services**

The Office of Admissions and Student Affairs offers various programs and activities designed to help facilitate the success of students in the dental curriculum. First-year student dentists are provided instruction in study skills, time management, note-taking and test-taking. In addition, upper-class student dentists are employed by the Office of Admissions and Student Affairs as tutors for those individuals needing additional help in specific courses or for those desiring to improve their overall performance in the didactic, laboratory, and clinical components of the curriculum.

**Academic Disciplinary Policies**

The following policies are initiated in cases involving unsatisfactory academic
performance.

Φ Probation

A student will be placed on probation if he or she has:

1. a grade point average (G.P.A.) for the academic year less than 2.75;
2. received a failing grade (E or F); or,
3. failed one or more parts of either Part 1 or Part 2 of The National Dental Board Examination

Terms of Probation. The terms of probation will be established by the Academic Performance Committee. The duration of probation will be at least one semester. Passing a course that has been failed is a condition of all probations. Additional terms of probation may be established by the Academic Performance Committee. Students on probation are ineligible for certain curricular or extracurricular College activities.

If a student has failed a National Dental Board Examination, taking the examination the next time it is available and passing it shall be among the terms of probation. The terms shall also include required activities to help the student prepare to pass the examination.

Removal from Probation. A student will be removed from probation by the Academic Performance Committee when he or she has at least a cumulative 2.75 G.P.A., has at least a 2.75 G.P.A. in the current academic year, has passed any failed course, and has satisfied the terms of probation in the judgment of the Academic Performance Committee.

Φ Suspension (approved by faculty 3/21/05)

The Academic Performance Committee (APC) shall recommend to the Dean that a student be suspended if the student has:

1. Received two or more failing (E or F) grades; or
2. Received a failing grade (E or F) while on probation; or
3. Failed to meet the terms of probation; or,
4. At any time after the second year of the curriculum, achieved a cumulative GPA of less than 2.75; or,
5. Failed Part 1 or 2 of the National Dental Board Examination a second time.
6. Failed Part 1 or 2 of the National Board Examination while on probation.
7. Received a failing grade (E or F) and fails Part 1 or 2 of the National Board Examination.

In addition to satisfying one of the seven criteria above, the APC must have determined based on available evidence that the student is capable of completing the curriculum after receiving counseling and/or completing work outside the College. The Academic Performance Committee will recommend the terms for the consideration of reinstatement following suspension and make recommendations to the Dean regarding these terms.

Review. A suspended student may request an appeal hearing. The request must be made in writing to the Chair of the Faculty Council within 5 working days of notification of suspension (see Academic Disciplinary Policy Five “Appeal Procedures”).

Reinstatement following suspension. When the student has met the terms of suspension, has demonstrated that he or she can perform at the level required to graduate from the College, and has met the terms of reinstatement recommended by the APC, the Dean may reinstate him or her. However, granting a request for reinstatement is not automatic. A reinstated student will be placed on probation, subject to terms recommended by the Academic Performance Committee and approved by the Dean. A student who has not been reinstated within 18 months of the original suspension date will be considered dismissed and will no longer be eligible for reinstatement.

A student who has been suspended because of a second failure of Part 1 or 2 of the National Dental Board Examination shall not be readmitted until she or he takes and passes Part 1 or 2 of the National Board Examination. If a student who has been suspended for a second failure of Part 1 or 2 of the National Board Examination does not retake and pass the Boards within six months of the date of the second failure, that student will be dismissed. American Dental Association policy now states “effective January 1, 2007, National Board Dental candidates who have not passed an examination after three attempts will be required to wait 12 months after their third attempt before they can apply for reexamination.” Students should be aware that the results of some state/regional licensure exams are valid for a limited time. Students should contact the state/regional board of interest for information on this issue.

Further information on the College's Academic Disciplinary Policies is available from the Office of Academic Affairs (M132).

Φ Dismissal Policy (approved by faculty 3/21/05)
The Academic Performance Committee (APC) shall dismiss a student if the student has:

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<tbody>
<tr>
<td>1.</td>
<td>Received two or more failing (E or F) grades; or,</td>
</tr>
<tr>
<td>2.</td>
<td>Received a failing grade (E or F) while on probation; or,</td>
</tr>
<tr>
<td>3.</td>
<td>Failed to meet the terms of probation; or,</td>
</tr>
<tr>
<td>4.</td>
<td>At any time after the second year of the curriculum, achieved a cumulative G.P.A. of less than 2.75; or,</td>
</tr>
<tr>
<td>5.</td>
<td>Failed Part 1 or 2 of the National Board Examination a second time; or,</td>
</tr>
<tr>
<td>6.</td>
<td>Failed Part 1 or 2 of the National Board Examination while on probation; or,</td>
</tr>
<tr>
<td>7.</td>
<td>Received a failing grade (E or F) and fails Part 1 or 2 of the National Board Examination.</td>
</tr>
</tbody>
</table>

In addition to satisfying one of the seven criteria above, based on the available evidence, the APC has determined that the student is not academically capable of completing the curriculum or is otherwise unsuitable for dentistry for reasons that include, but are not limited to: unacceptable personal hygiene; inability to establish rapport with patients; inability to work effectively with other health care team members; undependability; lack of integrity, initiative or interest.

**Suspended students.** A suspended student who has failed Part 1 or 2 of the Boards for the second time shall be dismissed if he or she does not take and pass the Boards within 6 months of the date the student took and failed the Boards for the second time. A student who has not been reinstated within 18 months of the original suspension date will be considered dismissed and will no longer be eligible for reinstatement. American Dental Association policy now states “effective January 1, 2007, National Board Dental candidates who have not passed an examination after three attempts will be required to wait 12 months after their third attempt before they can apply for reexamination.” Students should be aware that the results of some state/regional licensure exams are valid for a limited time. Students should contact the state/regional board of interest for information on this issue.

**Previously suspended students.** If a student is subject to suspension or dismissal and has been previously suspended, the Academic Performance Committee shall dismiss that student rather than suspend him/her again.

**Reinstatement following dismissal:** A dismissed student shall not be reinstated.
Appeal. A dismissed student may request an appeal hearing. The request must be made in writing to the Chair of the Faculty Council within 5 working days of notification of dismissal (see Academic Disciplinary Policy Five “Appeal Procedures” – Appendix N).

Postdoctoral Education

The College of Dentistry offers advanced education programs in several areas. The D.M.D. or equivalent degree is necessary for acceptance into any of these programs. Residents of Kentucky and non-residents, who have strong academic and professional records are given consideration and are encouraged to apply.

Stipends are paid to general practice, oral and maxillofacial surgery, orofacial pain and pediatric dentistry residents. Graduate students in periodontics, orofacial pain, and orthodontics register for academic credit. Students should not plan to practice while enrolled in any of these programs.

Application for Admission

Applying for Postdoctoral Programs

The University of Kentucky participates in PASS, the Postdoctoral Application Support Service provided by the American Dental Education Association. To complete a PASS application or to learn more about the service, visit the ADEA website at www.adea.org/PASS. PASS begins processing applications on June 1.

The General Practice Residency, Periodontology and Orofacial Pain programs at the University of Kentucky College of Dentistry have their own application process. To receive an application, contact the office of the Division Chief or Program Director.

General Practice Residency In Dentistry
The General Practice Residency Program is designed to extend the graduate's capability in performing all phases of general dentistry in either private practice or hospital-based settings. Patients of all ages are treated with special emphasis placed on the medically compromised. Residents participate in rotations in general dentistry, oral surgery, anesthesia, and medicine. Didactic and clinical experiences are available in the various dental specialties as well as in intravenous sedation and comprehensive pain control. The clinical aspect of the program includes the treatment of about 10,000 patients per year. There are opportunities for both clinical and non-clinical research. The residency program is accredited for both a one-year program and a two-year program by the Commission on Dental Accreditation of the American Dental Association.

Applicants must be graduates of an ADA-accredited dental school. Selection criteria include academic performance in dental school education, National Board scores, motivations and goals, letters of reference and required interviews.

Three general dentists serve as full-time attending program faculty. Seven additional College of Dentistry faculty members serve as part-time faculty. Numerous other dentists and physicians participate in seminars and fulfill special program roles. The 12-chair general dentistry clinic is housed in the Kentucky Clinic.

**Oral And Maxillofacial Surgery**

The College of Dentistry offers an accredited six-year program in Oral and Maxillofacial Surgery designed to meet the requirements of the Commission on Dental Accreditation and the American Board of Oral and Maxillofacial Surgery. A one-year internship in Oral and Maxillofacial Surgery also is available.

Educational activities in the biomedical sciences as prescribed by the Commission and the Board are integrated throughout the six years. The program is clinically oriented, and balanced in providing experiences in maxillofacial trauma, cosmetic and reconstructive surgery, pathology, and ambulatory pain and anxiety control. The program includes 31 months of oral and maxillofacial surgery training, three years of medical school, and a year of general surgery.
The one-year internship is offered for those applicants who desire to strengthen their clinical experience and didactic foundation in Oral and Maxillofacial Surgery. The primary teaching hospitals are the 473-bed University of Kentucky Hospital and the 370-bed Veterans Affairs Medical Center. The hospitals are adjacent to each other and are connected. Off-service rotations in general surgery, neurosurgery, plastic surgery, pathology, and anesthesiology are included in the educational program. Five full-time attending staff members (four Diplomats of the American Board of Oral and Maxillofacial Surgery) assume primary responsibility for the teaching program. Faculty takes an active role in the teaching by daily participation on hospital rounds and the overall patient care that is provided.

Orofacial Pain

The College of Dentistry, in cooperation with the University of Kentucky Graduate School, offers a Master of Science degree in orofacial pain. This program provides advanced training in the understanding, diagnosis, and management of temporomandibular disorders and complex oral pain.

The Orofacial Pain Center was founded in 1977 and emphasizes a multi-disciplinary approach to managing complex orofacial pain. Patients are routinely evaluated by dentists, clinical psychologists and physical therapists. Medical and dental specialists are called upon regularly to assist in the diagnosis and management of complex pain problems. The Master's degree program is composed of didactic, clinical, and research components.

Although the entire program is designed for completion in 36 months, the didactic and clinical components can be completed in 24 months. Careful scheduling and use of summer months can shorten the research component considerably.

The didactic portion of this program consists of the completion of 24 hours of designated graduate courses in the College of Dentistry. Course content includes anatomy, neuroanatomy, growth and development, pain physiology, craniomandibular biomechanics, masticatory function and dysfunction, pharmacology, imaging techniques, and statistics.

Lectures also are presented by specialists in psychology, rheumatology, otolaryngology, anesthesiology, oral surgery, rehabilitative medicine, physical therapy, and pain management. Each graduate student will evaluate and manage orofacial pain patients. This program emphasizes the diagnosis and management of orofacial pain rather than the dental skills used to alter dental structures. Certain orthopedic appliances routinely will be used to manage orofacial pain, together with various diagnostic and therapeutic injection techniques. Emphasis will be placed on establishing proper diagnosis and developing appropriate relationships with medical specialists who can assist in managing the patient's specific pain complaint.

The graduate student receives clinical training in the Orofacial Pain Center under the supervision of two full-time and three part-time faculty specializing in pain problems. The graduate student also
will have the opportunity to work with clinical psychologists, a physical therapist, and other health professionals trained in pain problems.

The Orofacial Pain Center has a private patient reception and waiting area with an adjacent secretarial office. The treatment area consists of six dental cubicles and a private clinical psychology room. There also is a graduate students’ office and a dry laboratory.

**Orthodontics**

A 34-month graduate program is offered in conjunction with the Graduate School at the University of Kentucky. The educational objectives are to develop clinical and teaching skills, to obtain the relevant scientific background in the specialty area, and to design, execute, and publish master's level research. Upon satisfactory completion of the program, a Master of Science degree and a Certificate in Orthodontics are awarded. Arrangements can be made for graduate programs leading to the Doctor of Philosophy degree combined with the clinical training. The graduate degrees require that a thesis based upon original research be completed and the certificate is awarded upon completion of an original manuscript.

The didactic portion of the curriculum is conducted as seminars in which the basic sciences are integrated with clinical orthodontic topics. Independent library searches and research projects comprise a major component of this program and it is mandatory that the graduate students be actively engaged in such activities.

Research projects will be conducted under the guidance of faculty of the section of orthodontics or under the guidance of faculty outside the division of orthodontics with the approval of the program director of orthodontics and the college's director of graduate studies. Research opportunities include clinical orthodontic studies, as well as basic research in bone biology, developmental biology, microbiology, immunology, pharmacology, physiology, and engineering. Graduate students are required to teach in clinical and didactic courses in the doctoral dental curriculum. They also must prepare to take the written exam of the American Board of Orthodontics, when eligible.

In addition to the program director, two full-time and six part-time orthodontists make up the specialty faculty. Other College and Medical Center faculty conduct seminars and special clinics as part of the curriculum. The clinical experiences are varied. Special emphasis is placed on orthognathic surgery, craniofacial anomalies, facial pain, and management of the developing child. A series of seminars on business administration and practice management also are part of the curriculum.

Facilities of the graduate orthodontics clinic reflect modern practice concepts and style, and special emphasis is placed on barrier techniques, sterilization and disinfection in the orthodontist’s office.
Pediatric Dentistry

The College of Dentistry offers a residency program for postdoctoral student dentists seeking specialty training in pediatric dentistry. The development of skill in clinical pediatric dentistry is the primary objective of the program. However, because of the urgent need for pediatric dentists in teaching, research, and public health positions, a strong secondary objective is to stimulate an academic interest in these areas.

The program involves clinical exposure and didactic courses which enable the candidate to experience the educational activities recommended by the American Board of Pediatric Dentistry and the American Academy of Pediatric Dentistry. The didactic portion consists of a series of interrelated seminars about basic pediatric dental care, the care of the handicapped and chronically ill child, and diagnosis and treatment of occlusion problems in the primary, mixed and young permanent dentitions. The basic 24-month program includes a core curriculum, specialty course work, and wide range of clinical experiences. The program has a strong focus on treatment of medically, mentally, and physically compromised children and adolescents. It also focuses strongly on hospital and pharmacological management of patients; and management of the developing dentition for children and adolescents under the supervision of a full-time pediatric dentist/orthodontist.

The facilities used by pediatric dentistry residents include modern clinical, seminar, and research facilities located in the Kentucky Clinic and the dental science wing of the Medical Center. Extramural clinical activity at the Fayette County Family Care Center in Lexington and the Kosair Children's Hospital in Louisville also are a part of the clinical experiences. Additional facilities include 2 self-contained, 40-foot mobile dental units.

Experiential education opportunities are available throughout the state. Our student dentists and residents are expected to participate in extramural service programs and encouraged to volunteer their time to treat needy citizens as a part of their educational experience.

The graduate program in periodontics is designed to provide an educational opportunity for individuals interested in limiting their practice to this field. The program extends over a minimum of 36 months. The primary objective of the program is to develop a skilled sophisticated clinician, well-grounded in research and the biological basis of clinical practice and capable of satisfying the requirements the requirements of the American Board of Periodontology.
Periodontology

The advanced education program in periodontology is a 36-month program that culminates in the awarding of the Master’s of Science degree and a certificate in periodontology. The goal of the program is to prepare individuals for careers in either academic periodontology or private specialty practice. Two graduate students are accepted each year. The program begins on or about July 1 and the deadline for application is August 15 of the preceding year.

The program is a full-time course of study consisting of clinical, research, and didactic components. The didactic component consists of seminars that involve extensive reading in the literature. Courses include Biology and Pathogenesis (PER 772), Periodontal Therapy Literature Review (PER 776), Biomedical Research Methodology (CDS 550), Oral Biology (OBI 650), Oral Pathology (OPT651), Biostatistics (STA 570), plus a number of other topical seminars. There is a rotation on anesthesiology, and all graduate students are expected to become ACLS-certified during their first year. Students document and present their cases in a formal case presentation/treatment planning seminar (PER 770) as well as a surgical seminar (PER 774). The case analysis and defense exercises are patterned after the oral examination of the American Board of Periodontology.

The program is especially strong in the areas of implant surgery, conscious sedation, and cosmetic surgery. Residents typically place between 50-125 implants, as well as performing sinus augmentations and a wide range of periodontal surgical procedures.

There are off-service rotations in oral and maxillofacial surgery and anesthesiology.

In keeping with the philosophy of the College of Dentistry, the collegial atmosphere of the program encourages close contact with the faculty. The program has a rich heritage, and graduates have gone on to positions of importance in the specialty. During the 1960’s, the program was one of the most progressive and innovative in the country, and in the mid-1980’s was one of the first to offer formal coursework in implantology. This heritage of innovation continues as current graduate students are exposed to a wide range of therapeutic modalities, including regenerative therapy, implantology and sinus augmentation. Close cooperation with colleagues in other disciplines (orthodontics, oral and maxillofacial surgery, prosthodontics, otolaryngology, biomedical engineering) is encouraged, as are interdisciplinary seminars and educational opportunities. The faculty of the Division of Periodontology includes five periodontics, one dental hygienist, and an immunologist. Faculty from other disciplines also participates in educational seminars.

Application packages may be obtained by contacting Ms. Terri McGlasson by email at tmclglas@uky.edu or by phone at 859-323-5391. One or two week externships are also available to qualified applicants.
Patient Care

The Patient Care program at the University of Kentucky College of Dentistry seeks to provide comprehensive care in an atmosphere that simulates the practice environment.

Patients are assigned to a Team Leader who delegates responsibility for patient care to individual student dentists. The Team Leader manages patient care from preadmission evaluation through treatment and into the recall system. Instruction is provided by faculty from the clinical sections who are responsible for evaluation of student performance in their disciplines. Team Leaders have input into the development and evaluation of management skills throughout the clinical years. They also direct patient assignments and monitor progress of patient care and of their students. Coordinators assist the Team Leaders with these responsibilities in addition to managing all patient appointments.

During the pre-admission process, a Team Leader works with student dentists and consultants from involved disciplines and with appropriate diagnostic aids derives a tentative treatment plan. Prospective patients are informed about the probable course of treatment and provided with a fee estimate. During this examination, the Team Leader and student dentist elaborate on College policies and respond to individual patient concerns. From their appointment, patients are informed and have an understanding about the treatment planned for them and have an opportunity to participate in those plans. Above all, patients are treated as they will be in the practice environment students should adopt.

Public Service

Few colleges in the United States have as extensive a public service program as the University of Kentucky College of Dentistry. Service to the citizens of the Commonwealth and to the dental profession is of the highest priority. Our faculty, staff, student dentists, and residents are committed to reaching out to the public to improve their oral health. In addition to educating dentists, the faculty and staff work hard to provide easy access to patient care services, promote dental health education, conduct research, and provide clinical and educational support services to the profession.
Experimental education opportunities are available throughout the state. Our student dentists and residents are expected to participate in extramural service programs and encouraged to volunteer their time to treat needy citizens as a part of their educational experience. They begin their clinical education with patients in a school sealant project, Seal Kentucky, in rural Kentucky. The Pediatric Dentistry faculty is working in Menifee County, at Fayette County’s Family Care Center and at Kosair Children’s Hospital in Louisville. The Divisions of Dental Public Health and Pediatric Dentistry have four mobile dental programs that faculty use to provide indigent care and preventive dental sealant services via schools in Eastern, Central, and Western Kentucky. Our student dentists volunteer to treat needy children at special Thursday evening and Saturday morning clinics and provide support to the Nathaniel Mission in Lexington. Student dentists also work with Lexington Children’s Museum and Blue Grass Dental Society to provide dental health education to hundreds of schoolchildren in the area.

The College also serves the profession of dentistry. Our Continuing Education program is offered in Lexington and throughout the Commonwealth. The biopsy service provided by our Oral Pathology faculty has become one of the nation’s largest. In conjunction with Kentucky’s dental organizations, the College promotes oral health awareness and education to the public through multiple media. The College also collaborates with the Kentucky Department for Public Health oral health education activities across Kentucky. Our faculty provides leadership to the profession nationally and internationally by serving as speakers, officers, consultants, and board members in all the dental specialties.

Research

One of the College of Dentistry's major goals is to conduct biological, clinical, behavioral, and health services research that will lead to the discovery and application of new knowledge, provide an opportunity for research training for doctoral and postdoctoral students, and enhance the climate of scholarship within the College and Medical Center. We actively encourage students to participate in research projects during their stay in the College and give academic credit for this participation through a series of elective courses. Most of the research currently under way in the College falls into several broad categories:
• oral health and the medically compromised, handicapped or fearful patient
• biomaterials and dental devices
• oral health in the elderly
• drugs and drug delivery systems as they pertain to oral health
• oral health care delivery and oral health care education

Students are actively involved in all of these research areas. Students also are active in a formal Student Research Group, and compete for College-sponsored Student Research Fellowships.

The College's research program is productive, as evidenced by the number of scientific papers presented by students and faculty at various dental meetings, and the number of papers published in scientific journals. The College and the local chapter of the American Association of Dental Research annually sponsor a series of lectures and seminars that bring world-renowned researchers to the College to discuss their work.

We strongly believe that an active and dynamic research program benefits both students and faculty by improving the educational climate of the College, and ultimately benefits the citizens of Kentucky and the nation by contributing to the overall improvement of society. We strive hard to make this belief a reality.

**Continuing Education**

The University of Kentucky College of Dentistry, recognizes that dental education does not end when the D.M.D degree has been conferred. Learning must extend for a lifetime. Consistent with this philosophy, the College offers a variety of lecture, participation, and home-study courses for practicing dentists and dental auxiliaries. Course schedules are coordinated with the University of Louisville School of Dentistry with the common goal of providing quality, informative and up-to-date continuing dental education to Kentucky’s oral health practitioners.

Courses are given in Lexington and at various locations throughout the state and nation. Remote courses often are coordinated with the Area Health Education Centers (AHECs). Course lengths vary. Through the College program, practitioners are able to expand their skill and knowledge base while at the same time informing themselves about new developments in oral health care.

For information on continuing dental education visit our website: http://www.mc.uky.edu/Dentistry/ce/default.htm

**Alumni/ae Affairs**
The College of Dentistry and the College Alumni/ae Association offer a variety of regularly scheduled educational and social programs to College alumni/ae. Among these are the Fall Symposium and the summer Golf Classic, as well as special continuing education offerings directed specifically at College alumni/ae.

The University of Kentucky Alumni Association, of which the College of Dentistry Alumni Association is a part, conducts its activities with several purposes in mind. First and foremost, it is responsible for promoting the best interest and welfare of the University of Kentucky with specific attention given to the College of Dentistry. The Alumni Association strives to acquaint the membership with the achievements of their alma mater and focuses on the University's many contributions to the citizens of Kentucky and the nation. It also provides information on institutional goals and needs and encourages alumni to maintain close ties with the College of Dentistry.

The University Kentucky Alumni Association is located in the King Alumni House while the College of Dentistry Alumni Association is an activity of the Dean's Office. College of Dentistry alumni who are members of the University Kentucky Alumni Association also have membership in the College Alumni Association.

*Perspectives*, the College of Dentistry alumni publication, is mailed to alumni and friends twice during the academic year. It provides information and features of interest designed to foster closer ties with the University of Kentucky College of Dentistry.

**Development**

The College of Dentistry's budget allocation from the University of Kentucky provides funding for only part of the College's programs and services. Private contributions from alumni and friends enable the College to carry out many activities in the area of education, patient care, research, and service not covered in the budget. The Medical Center Development Office plays an important role in raising some of these funds. The staff works with the College in developing gift programs.
which give supporters the opportunity to provide direct financial assistance to the College. As a result, the College of Dentistry is better able to fulfill its assigned mission thanks to the generosity of its alumni and friends.

Lexington

An academic institution is more than its campus and classrooms; it is also the surrounding environment which supports social, emotional, and intellectual development.

Located in the internationally famous Bluegrass region of Kentucky, Lexington is 84 miles south of Cincinnati and 80 miles east of Louisville. With a population of 260,512, Lexington offers a multitude of job opportunities, entertainment, dining, recreation, and cultural events that add a special dimension to education.

Encompassing two centuries of history, Lexington was one of the first settlements beyond the Allegheny Mountains. Today, historical homes and monuments throughout the city remind citizens and visitors of Lexington's gracious heritage. This, along with its increasing business community with large corporations such as Lexmark, Ashland Oil, Procter and Gamble, General Electric, and nearby Toyota help create the unusual atmosphere of a thriving, growing city which still retains the appeal of a small community.

Cultural life is alive and well in Lexington. The Council of the Arts, Inc., composed of many non-profit corporate organizations, enhances the area's cultural resources with an active program in all the fine arts. Lexington is one of the few cities of its size to offer a philharmonic orchestra and a ballet company. Community theater groups perform regularly and national touring groups present Broadway attractions at the historic Opera House. The area also enjoys the unique exhibits at the nationally-accredited Art Museum located in the University's Otis A. Singletary Center for the Arts.

Lexington is known as the horse capital of the world, and for good reason. Within a 35-mile radius of downtown, several hundred horse farms can be found ranging in size from a few acres to 6,000 acres. Area farms breed and train some of the world's best thoroughbred, standardbred, and saddlebred horses. Famous horse sites in the region include the Kentucky Horse Park, Calumet Farm, and Keeneland Race Course. Tourists also are attracted to the greater Lexington region by the historic and beautiful scenery of the Bluegrass, which includes the Red River Gorge,
Shakertown at Pleasant Hill, Fort Boonesborough, and an excellent state park system.

**Directions to the University Kentucky College of Dentistry**

**Directions from I-75 South/I-64 East:**

After the merger of I-75 South and I-64 East, take the first exit marked Newtown Pike (Exit 115). Veer right off the exit and follow Newtown Pike toward downtown Lexington. After traveling approximately 3.3 miles, turn left onto West Main Street (Route 25). Continue on West Main Street through 7 traffic lights and turn right onto Rose Street. Follow Rose Street until you see the pedway that connects the Chandler Medical Center with the Kentucky Clinic. Turn left just before the pedway and follow the signs for Hospital parking. Enter the hospital through the main entrance revolving door and receive further directions from the staff at the information desk.

**Directions from I-75 North/I-64 West:**

I-64 West: Exit on I-75 South and take the first exit, which is Winchester Road (Route 60). Follow directions below.

I-75 North/I-64 West:

Exit on Winchester Road (Route 60). Follow Winchester Road West toward downtown Lexington. After 10 traffic lights the road will split; stay to the left, following
the sign for Route 60 West. At the next stop light (approximately 4 miles from the interstate exit), turn right onto Main Street. Immediately make your way into the left lane and turn left at the first traffic light onto Rose Street. Follow Rose Street until you see the pedway that connects the Chandler Medical Center with the Kentucky Clinic. Turn left just before the pedway and follow the signs for Hospital parking. Enter the hospital through the main revolving door and receive further directions from the staff at the information desk.

Faculty

COLLEGE OF DENTISTRY

Sharon P. Turner, dean

DEPARTMENT OF ORAL HEALTH PRACTICE

Mark V. Thomas, chair

Endodontics

Kenneth B. Chance, division chief

Ken Chance, professor, D.D.S., Case Western Reserve, 1979
Alfred Wiemann, assistant professor (part-time), D.M.D., Kentucky, 1981

Oral Diagnosis, Oral Medicine and Oral Radiology
Donald A. Falace, division chief
Rachael Arvin, assistant professor (part-time), D.M.D., Kentucky, 1987
Robert Danaher, assistant professor, Ph.D., Maryland, 1994
John E. Lindroth, associate professor, D.D.S., West Virginia, 1977; Fellowship, Orofacial Pain, Kentucky, 1992
Craig S. Miller, professor, D.M.D., Kentucky, 1982; Cert., G.P.R., USAF, 1983; M.S., Texas-San Antonio, 1987
Sherry Parlanti, assistant professor (part-time), D.M.D., Kentucky, 1991
B. Lynn Theiss, assistant professor, D.M.D., Kentucky, 1986; G.P.R., Kentucky 1988; M.S.D., Geriatric Dental Fellowship, Kentucky, 1991
Juan Yepes, assistant professor, D.M.D., Bogota Columbia, 1992; M.D., Bogota Columbia, 1998

Periodontics

Mark V. Thomas, division chief
Mohanad Al Sabbagh, assistant professor, D.D.S., Damacus, Syria, 1993; M.S., Buffalo, 2002
Dolph Dawson, assistant professor, D.M.D., Univ. of Louisville, 1993; M.S., Kentucky, 1998
Jeffrey Ebersole, professor, Ph.D., Pittsburgh, 1975
Sue Humphrey, associate professor, M.S., Kentucky, 1994
Keith J. Lemmerman, assistant professor (part-time), D.M.D., Kentucky, 1974; Cert. Perio., Kentucky, 1976
M. John Novak, professor, Ph.D., Rochester, 1990
Mark V. Thomas, associate professor, D.M.D., Kentucky, 1979; Cert. Perio., Kentucky, 1987
Nithya Venugopal, assistant professor (part-time), D.M.D., Kentucky, 2005

Restorative Dentistry

James E. Haubenreich, division chief
Behruz J. Abadi, associate professor, D.M.D., Istanbul, Turkey, 1972; Cert. Prosth., Eastman Dental Center, Rochester, 1976
Rachael Arvin, assistant professor (part-time), D.M.D., Kentucky, 1987
Raymond J. Byron, Jr., assistant professor, D.M.D., Kentucky, 1979
Paula Caskey, assistant profess (part-time), D.M.D., Kentucky,
John H. Clements, assistant professor (part-time), D.M.D., Kentucky, 1967
James D. Cooper, assistant professor (part-time), D.M.D., Kentucky, 2004
Kelley Deaton, assistant professor (part-time), D.M.D., Louisville, 1985
William B. Galbreath, assistant professor, D.M.D., Kentucky, 1973
David Gore, assistant professor (part-time), D.M.D., Kentucky, 1982
James E. Haubenreich, assistant professor, D.D.S., Memphis, 1977
Howard L. Higgins, assistant professor (part-time), D.M.D., Kentucky, 1975
Robert E. Kovarik, associate professor, D.M.D., Kentucky, 1982; M.S., Georgia, 1991
Janet F. Lee, assistant professor (part-time), Kentucky, 1982
Stacie Maggard, assistant professor (part-time), D.M.D., Kentucky, 1998
Daniel B. Manley, assistant professor (part-time), D.M.D., Kentucky, 1981
Richard J. Mitchell, associate professor, M.S., Georgia, 1971; Ph.D., Virginia, 1975
Paul B. Osborne, assistant professor (part-time), D.M.D., Kentucky, 1978
Kristy A. Pepper, assistant professor, D.M.D., Kentucky, 2005
Deborah S. Ray, assistant professor (part-time), D.M.D., Kentucky, 1987; G.P.R. Cert., Kentucky, 1988
Fonda G. Robinson, associate professor, D.M.D., Kentucky, 1992
William M. Sadler, assistant professor, D.M.D., Alabama, 1975
Stephen P. Selwitz, assistant professor (part-time), D.M.D., Kentucky, 1975
Loren N. Williams, assistant professor (part-time), D.M.D., Kentucky, 1978

Comprehensive Care

Patricia Nihill, division chief
Ershal Harrison, assistant professor (part-time), D.M.D., Kentucky, 1981
Thomas A. McConnell, associate professor, D.D.S., University of the Pacific, 1977

DEPARTMENT OF ORAL HEALTH SCIENCE

Jeffrey P. Okeson, chair
Chifu B. Huang, assistant professor, M.S., Kentucky, 1990; Ph.D., 1995, Kentucky; MBA Washington, 2002
Mengtao Li, assistant professor, M.D., Beijing, 1989; Ph.D., Louisville, 1995
Heliegh S. Oa, assistant professor, D.V.M., Univ of Tehran, 1976; M.S., Illinois, 1980; Ph.D., Minnesota, 1985

**Oral and Maxillofacial Surgery**

**Joseph D. Van Sickels, division chief**

Larry L. Cunningham, Jr., assistant professor, D.D.S., Texas, 1995; M.D., Texas, 1998
Richard Haug, professor, D.D.S., State University of New York, 1974
Bethany Serafin, assistant professor, D.M.D., Pennsylvania, 2000

**Pediatric Dentistry**

**John R. Mink, acting division chief**

Elizabeth Barr, assistant professor (part-time), D.M.D., Kentucky, 1974
Nelle Barr, assistant professor (part-time), D.M.D., Kentucky, 1991
Rodney Jackson, assistant professor (part-time), D.M.D., Kentucky, 2001
Jeffrey Johnson, assistant professor (part-time), D.M.D., Kentucky, 2001; M.P.H., Kentucky, 2003
Harold D. Lester, **assistant professor, D.M.D., Louisville, 1963
John R. Mink, professor, D.D.S., Indiana, 1956; M.S.D., Indiana, 1961
Hayden Phillips, assistant professor (part-time), D.M.D., Kentucky, 2003
Catherine Robinette, assistant professor (part-time), D.M.D., Kentucky, 2004

**General Dentistry**

**Ted P. Raybould, division chief**

John B. Burt, assistant professor, D.M.D., Kentucky, 1996
Eric T. Demann, assistant professor, D.M.D., Kentucky, 2000
Marc D. Dyer, assistant professor (part-time), D.M.D., Louisville, 2004
Christian S. Fraley, assistant professor, D.M.D., Kentucky, 1996; G.P.R. Cert., Kentucky, 1997
Daria Stone, assistant professor, D.M.D., Kentucky, 1995
James R. Thompson, assistant professor (part-time), D.M.D., Kentucky, 1978
Mary N. Williams-Treesh, assistant professor (part-time), D.M.D., Kentucky, 2005

Oral Pathology

Dean K. White, division chief
Dean K. White, professor, D.D.S., Missouri, 1970; M.S.D., Indiana, 1972

Orofacial Pain

Reny de Leeuw, division chief
Ruth A. Baer, *associate professor, Ph.D., Virginia, 1985
Charles R. Carlson, *associate professor, Ph.D., Vanderbilt, 1983
Lyle W. Carlson, assistant professor (part-time), M.S., Univ of Southern California, 1977; Ph.D., Univ of South Dakota, 1992
Reny de Leeuw, associate professor, D.M.D., State Univ Groningen, 1988; Ph.D., State Univ Groningen, 1994
John E. Lindroth, associate professor, D.D.S., West Virginia, 1977; Fellowship, Orofacial Pain, Kentucky, 1992
Jeffrey P. Okeson, professor, D.M.D., Kentucky, 1972
Alan D. Wilkinson, assistant professor (part-time), D.M.D., Louisville, 1973; Fellowship, Orofacial Pain, Kentucky, 1991

Orthodontics

G. Thomas Kluemper, division chief
Melvin W. Dean, assistant professor (part-time), D.M.D., Kentucky, 1977, Cert. Orthodontics, Kentucky, 1979
G. Thomas Kluemper, associate professor, D.M.D., Kentucky, 1983; M.S., Orthodontics, Michigan, 1991
Judson M. Knight, associate professor (part-time), D.M.D., Kentucky, 1967; Cert. Orthodontics, Kentucky, 1972
C. Michael Stansbury, assistant professor (part-time), D.M.D., Kentucky, 1976; Cert Orthodontics, Kentucky, 1979
Paul Tran, assistant professor (part-time), D.M.D., Baylor, 1990; M.S., Kentucky, 1994
J. Philip Wahle, assistant professor (part-time), D.M.D., Kentucky, 1990; M.S., Kentucky, 1993

Public Health Dentistry

Oscar A. Arevalo, division chief
C. Lawrence Chiswell, professor (part-time), D.M.D., Kentucky, 1972
Kelly J. Dingrando, assistant professor, D.M.D., Kentucky, 2005
J. David Hardison, professor, D.M.D., Kentucky, 1980
Alan A. Kaplan, **associate professor, Ph.D., Kentucky, 1975
Karl Lange, professor (part-time), D.M.D., Louisville, 1968
Kavita Mathu-muju, assistant professor, D.M.D., Manitoba, 1993
Judith Skelton, associate professor, Ph.D., Florida, 1983
Jenny L. Stigers, associate professor (part-time), D.M.D., Kentucky, 1984; G.P.R. Cert., Kentucky, 1986
John A. Thompson, assistant professor (part-time), D.M.D., Kentucky, 1971

* joint appointment
** adjunct

College of Dentistry Course Descriptions

CDE Community Dentistry

CDE 814 PATIENTS, DENTISTS AND SOCIETY 1. (1)
This course aims to orient the student to the place health and health professions play in modern cultures. Recognition of their own social assumptions and values and those of persons of different backgrounds is encouraged. Understanding, predicting, and changing dental patient behavior from a social standpoint is emphasized. (Same as BSC 814.)

CDE 815 FUNDAMENTALS OF DENTAL PUBLIC HEALTH. (2)
Fundamentals of Dental Public Health is a first-year course designed to introduce student dentists to the dental specialty of Dental Public Health, to dental epidemiological concepts, terminology, and methods used in population-based health care. Community oral health problems in Kentucky and the United States will be reviewed. Emphasis will be placed on public health research, programming, and outcome evaluation strategies related to oral disease in populations. Lecture, 28 hours; laboratory, 3 hours.

CDE 824 COMMUNICATION IN THE DENTAL HEALTH CARE SETTING. (1)
This course aims to improve the student's ability to communicate with patients and the public in an empathetic and professional manner. Methods of obtaining necessary health information from all types of patients are taught. Prereq: Second year standing in the College of Dentistry. (Same as BSC 824.)

CDE 830 ADVANCED CONCEPTS IN DENTAL PUBLIC HEALTH. (2)
The American Dental Association’s Principles of Ethics and Code of Professional Conduct state that the dentist has a “primary duty of service to the public”. The Dental Public Health Curriculum is designed to prepare students to assume this obligation. The student will acquire a basic understanding of the scientific method through course work in epidemiology, research design, and evaluation of scientific literature. This basis of knowledge will provide the basis for the planning and evaluation of community based preventive dental programs. The student will understand the dental delivery system and the variety of financing mechanisms that are available to meet the dental needs of specific population groups. To provide a framework for the dental student’s professional development, the instructional content in dental public health will be coordinated with CDE 841 (Community Based Dental Education), helping the student to prepare for the extramural learning experience. Lecture, 24 hours. Prereq: Admission to the College of Dentistry or consent of course director.

CDE 841 DENTAL PRACTICE FIELD EXPERIENCE. (6-10)
Students are provided a full-time, off-campus assignment to a dental practice environment for a period of 6-10 weeks. Students spend an average of 32 hours each week participating in practice management and patient treatment activities under the supervision of a dentist. Approximately eight hours a week are spent in career plan development and in study of the community or region, particularly its health care delivery system and the role of dentistry in that system. Prereq: CDE 830.
CDE 844 DENTAL PRACTICE MANAGEMENT II. (4)
This course is primarily designed to give the student dentists, prior to graduation, practical, useful knowledge on establishing and maintaining a private dental practice. The course will be presented in an active learning format. Course sessions and activities will also include special sessions designed to introduce students to the current environment of dental practice, to organized dentistry in Kentucky, to the College's Alumni Association and to new developments and continuing education in the dental profession. Lecture 69 hours. Prereq: CDE 830 or consent of course director.

CDE 880 TREATMENT OF DENTAL FEAR. (1)
This advanced course in the treatment of dental fear is intended to prepare the student to manage very fearful dental patients. Topics covered include etiologies, diagnosis and types, relaxation and distraction, and case histories. Note: Scheduling for the course will take place outside of regularly scheduled clinic/class time. Prereq: CDS 823 and consent of course director. (Same as BSC 880.)

CDE 881 COMPUTER APPLICATIONS IN DENTISTRY. (1)
This course introduces the student to a variety of computer applications available for dentistry. Sessions will consist mainly of demonstrations of these applications, but students will also gain hands-on experience wherever possible. Topics include dental imaging, word processing, the use of interactive video disk and other computer software/hardware as instructional tools, accessing national databases and performing literature searches, electronic mail, computer-aided orthodontic diagnosis and treatment, the Internet, and other applications. Note: Scheduling for this class will be outside of regularly scheduled clinic/class time.

CDE 882 TEAM MANAGEMENT OF LONG TERM CARE RESIDENTS. (1)
Students from the disciplines of dentistry, medicine, pharmacy, physical therapy, and nursing will participate in a three week rotation at a local long term care facility (LTC) designed to orient students to multidisciplinary approach to patient care. During these three weeks the students will explore the various aspects of long term care both through on site experience and didactic involvement with core faculty. A student from each discipline will be assigned to a team to evaluate one or more residents, and to propose an overall treatment course involving several aspects of patient care. Note: Scheduling for this course will occur outside of regularly scheduled clinic/class time for students. Prereq: 3rd or 4th year standing.

CDE 883 COMMUNITY-BASED SERVICE ELECTIVE (1)
This Community-Based Service elective is designed to give students greater opportunities to provide dental services to diverse, underserved populations. The goals of this course are to further develop a service ethic in students, to add to the spectrum of clinical skills of students, and to address the needs of populations who do not have access to dental care. The majority of the time requirements for this course will be rotations to community clinics where students will work under the supervision of a College of Dentistry faculty providing dental services. Individual contracts will be developed with participating students to determine credit hours (32-
64 clinical contact hours = 1 credit hour). In addition, there will be 2, one-hour seminars to discuss and debrief on the experiences of participating students. Scheduling of this class will be outside regularly scheduled clinic/class time. Prerequisites: Completion of Third Year Courses/or Academic Performance Committee Special Approval. Requirement: Submission of letter of intent to participate.

CDS   Conjoint Dental Science

CDS 611 CHILD GROWTH
AND DEVELOPMENT PART I.   (2)
This is a seminar course on nature and physiologic control of physical growth, for graduate students in dentistry. Prereq: Admission to a graduate program of the College of Dentistry; D.D.S. or D.M.D. degree.

CDS 612 CHILD GROWTH
AND DEVELOPMENT PART II.   (2)
This is a seminar course for graduate students in dentistry covering emotional and intellectual growth of children, and diseases and congenital anomalies of children. Prereq: Admission to graduate program of the College of Dentistry; D.D.S. or D.M.D. degree.

CDS 613 CONTEMPORARY LEADERSHIP IN DENTISTRY   (1)
The purpose of the course is to explore the current leadership dilemma in the health professions (specifically dentistry) and to prompt extension of the role of oral health professionals to serve as leaders who engage a richer “public good” agenda as part of their role as “doctor/teacher.” Service learning opportunities will be integral components of the course. The course will concentrate on important issues such as leadership development and theories of leadership; team building; personality preferences and leadership; peer assessment; transformational and transactional leadership; mentoring.; personal leadership; stress management; leading change; negotiation; and giving and receiving feedback. Lecture, 16 hours.

CDS 631 PRINCIPLES OF DENTAL OCCLUSION.   (2)
This course is designed to give the student as broad as possible a view of the complex subject of dental occlusion. Prereq: Admission to dental graduate program; D.D.S. or D.M.D. degree.

CDS 748 MASTER'S THESIS RESEARCH.   (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

CDS 768 RESIDENCE CREDIT
FOR THE MASTER'S DEGREE.   (1-6)
May be repeated to a maximum of 12 hours.

CDS 810 NEW DEVELOPMENTS IN DENTISTRY I.   (1-2)
This course will cover selected new developments in dentistry or treat with added emphasis established dental skills and knowledge. The topics will be in such areas as the basic sciences, behavioral science, clinical dentistry, dental practice management, and community dentistry. Methods of instruction will vary, depending on topics. When offered, this course will be required of first-year dental students. May be repeated to a maximum of four credits. Prereq: First-year standing in the College of Dentistry; any course prerequisite will be announced.

CDS 812 NORMAL HUMAN GROWTH AND DEVELOPMENT. (1)
This is a lecture course which introduces basic concepts of normal human growth and development from birth through adolescence. Lectures emphasize the time-dependent changes that normally occur during physical and psychological maturation. A special emphasis is directed toward basic knowledge and understanding of craniofacial growth and development of the teeth and occlusion. Lecture, 22 hours. Prereq: Admission to the College of Dentistry or consent of course director.

CDS 813 MANAGEMENT I: INTRODUCTION TO MANAGEMENT FOR THE DENTIST. (2)
In this introductory course in management for the dentist, basic concepts will be presented which can be applied in the management of time, people, facilities and money. Instruction leading to certification in cardiopulmonary resuscitation is included. Lecture, 3 hours; laboratory, 69; clinic, 6 hours. Prereq: Admission to the College of Dentistry.

CDS 815 INTRODUCTION TO CLINICAL DENTISTRY. (3)
This survey course presents an introduction to the dental field of operation (operator), basic assisting procedures, preventive dentistry, infection control, application of sealants and oral isolation techniques. It is designed to prepare students to function in dental environments, safely and efficiently and to prepare them for the school-based sealant. Lecture, 21 hours; laboratory, 20 hours; clinic, 16 hours. Prereq: Admission to the College of Dentistry.

CDS 818 THE PROFESSION OF DENTISTRY I. (1)
This course is an introduction to life in the profession of dentistry. The course will explore normal everyday morality, and consider whether a case can be made for an extraordinary morality or ethic for practitioners. The course will conclude with a brief review of the history of dentistry to enable the student to place the profession of dentistry in cultural and historical perspective. Lecture, 16 hours. Prereq: Admission to the College of Dentistry.

CDS 819 SPECIAL TOPICS IN DENTISTRY. (1)
This course will have first-year dental students consider important social, educational, and professional issues they will encounter during dental school and in their careers. Topics range
from cultural diversity, professional and academic responsibility, sexual harassment awareness, minority health and related issues, to time management, personality type, and learning/teaching styles. Lecture, 22 hours. Prereq: First year standing.

CDS 820 NEW DEVELOPMENTS IN DENTISTRY. (1-2)
This course will cover selected new developments in dentistry or treat with added emphasis established dental skills and knowledge. The topics will be in such areas as the basic sciences, behavioral science, clinical dentistry, dental practice management, and community dentistry. Methods of instruction will vary, depending on topics. When offered, this course will be required of second-year dental students. May be repeated to a maximum of four credits. Prereq: Second-year standing in the College of Dentistry; any course prerequisites will be announced.

CDS 821 LOCAL ANESTHESIA. (1)
The action and dosage of local anesthetic agents used in dentistry are taught as are the proper injection techniques. The technique of venipuncture and administration of intravenous drugs are also included. Patient evaluation and emergency techniques for cardiac and respiratory resuscitation are reviewed. Lecture, 15 hours; laboratory, 6 hours. ANA 534; corequisite: OBI 822.

*CDS 822 GERONTOLOGY/GERIATRIC DENTISTRY. (1)
This course is designed to help students gain an appreciation for the significant opportunities as well as challenges the aging population will bring to their oral health practice. This course will provide students basic knowledge and information in gerontology/geriatric dentistry. Lecture, 17 hours. May be repeated to a maximum of two credits. Prereq: Admission to the College of Dentistry or discretion of course director. (Same as GRN 720.)

*CDS 823 MANAGEMENT II: PATIENT COMMUNICATION. (1)
The primary purpose of this course is to improve students’ ability to interact with patients in an empathetic and professional manner. Proper management of all assigned patients is required. Instruction leading to recertification in cardiopulmonary resuscitation is provided. Lecture, 26 hours. Prereq: CDS 821 or consent of course director.

CDS 824 INTRODUCTION TO ORAL DIAGNOSIS AND TREATMENT PLANNING. (2)
This course presents the rationale for the development of the University of Kentucky College of Dentistry Preliminary, Phase I and Phase II treatment plans and a method of critically evaluating treatment results. Basic UKCD clinical protocol is presented and discussed. Lecture, 22 hours; laboratory, 16 hours. Prereq: CDS 815 or consent of course director.

CDS 828 PROFESSION OF DENTISTRY II (1)
This course focuses on ethical practice in clinical dentistry. In the life of a health-care clinician circumstances arise daily which are ethical in nature. The dentist, and the patient, must respond to these circumstances in ways that result in the best for all parties concerned. This course will
explore the duties assumed by dentists in becoming a provider of oral health care for patients. In doing so, the major question to be addressed is, “How do dentists interact with their patients for the good of both?” Lecture, 16 hours. Consent of the course director.

CDS 830 NEW DEVELOPMENTS IN DENTISTRY III. (1-2)
This course will cover selected new developments in dentistry or treat with added emphasis established dental skills and knowledge. The topics will be in such areas as the basic sciences, behavioral science, clinical dentistry, dental practice management, and community dentistry. When offered, this course will be required of third-year dental students. May be repeated to a maximum of four credits. Prereq: Third-year standing in the College of Dentistry; any course prerequisites will be announced.

CDS 831 CONSCIOUS SEDATION. (1)
This course is designed to teach the principles of nitrous oxide-oxygen inhalation sedation and intravenous sedation in dentistry. The management of emergencies associated with these techniques and an introduction to the principles of general anesthesia are also included. Lecture, 21 hours; clinic, four hours. Prereq: CDS 821, OBI 824.

CDS 833 MANAGEMENT III: SPECIAL PATIENT MANAGEMENT. (1)
This course introduces the dental student to various special needs conditions and teaches the proper methods of physical management of special needs patients needed to provide dental care. Proper management of all assigned dental patients is required. Instruction leading to recertification in cardiopulmonary resuscitation is also included. Lecture, 20 hours; laboratory, 12 hours. Prereq: CDS 823.

CDS 835 DENTAL IMPLANTOLOGY. (2)
Dental implantology has become an integral part of dental services. This course contains information on patient centered criteria for implant services, surgical considerations, and prosthetically driven treatment results. The student will have the opportunity to familiarize him/herself with the components used in providing such treatment through a hands-on laboratory session. Lecture; 24 hours; laboratory, 12 hours. Prereq: Admission to College of Dentistry or discretion of course director.

CDS 838 PROFESSION OF DENTISTRY III (1)
This course is an introduction to the issues of justice and how we define, appropriate, and ensure justice today. The ethical principle of justice is the touchstone for American law, and a vision for our judiciary system. While dentists, as members of society, comply with laws in a way common to all other citizens, they also have additional legal responsibilities which derive from the unique relationship dentist and dentists have with society generally and patients specifically. This course will explore the relationship of dentistry to society and attempt to explicate further the nature of professional responsibility. In so doing, the major question will be, “How do society and dentistry interact for the good of the public and the profession?” Lecture, 16 hours. Prereq: Consent of the course director.
CDS 840 NEW DEVELOPMENTS IN DENTISTRY IV. (1-2)
This course will cover selected new developments in dentistry or treat with added emphasis established dental skills and knowledge. The topics will be in such areas as the basic sciences, behavioral science, clinical dentistry, dental practice management, and community dentistry. Methods of instruction will vary, depending on topics. When offered, this course will be required of fourth-year dental students. May be repeated to a maximum of four credits. Prereq: Fourth-year standing in the College of Dentistry; any course prerequisites will be announced.

CDS 843 MANAGEMENT IV: GERIATRIC DENTISTRY. (2)
Emphasis in this course is placed on developing abilities to make individual treatment decisions for elderly dental patients and acquiring positive attitudes towards the provision of oral health care to the aged. Students will make site visits to residential centers for the elderly. Proper management of all assigned dental patients and instruction leading to recertification in cardiopulmonary resuscitation are also included. Lecture, 27 hours; laboratory, 12 hours; clinic, 6 hours. Prereq: CDE 810 and CDS 833 or consent of course director.

CDS 844 DRUG MISUSE, ABUSE AND DEPENDENCY: WHAT DENTISTS NEED TO KNOW. (1)
This course is designed to provide new insights and understanding into prevention, recognition and treatment of patients with, and at risk for, drug misuse and abuse. The course enables dental students to understand addiction as primary, chronic and progressive disease and to demonstrate an understanding of the pharmacology, abuse potential, as well as the behavioral and physiological effects of the commonly abused drugs. Emphasis will be on increasing dental students skills and abilities to recognize the signs and symptoms of drug abuse; identify and manage patients at risk for drug problems; and become effective in providing successful care for drug dependent patients while minimizing their potential for relapse.

CDS 846 DIAGNOSIS AND MANAGEMENT OF OROFACIAL PAIN. (3)
This course will present information regarding the diagnosis and management of orofacial pain and temporomandibular disorders. The course will consist of lectures and one laboratory session. The information provided in this course will allow the student to understand the dentist's role in managing complex orofacial pain problems. The area of temporomandibular disorders will be emphasized since the dentist plays a major role in managing these pain disorders. Lecture, 45 hours; laboratory, 3 hours. Prereq: ANA 534, OBI 829, OSG 820, and RSD 822.

END Endodontics

*END 820 ANTERIOR ENDODONTICS. (2)
This is a lecture-laboratory course which is designed to introduce the student to the diagnostic terminology of pulpal and periapical disease and the techniques of endodontics in anterior teeth. Lecture, 10 hours; laboratory, 30 hours. Prereq: RSD 812 and RSD 814, or consent of course director.
END 821 CLINICAL ENDODONTICS I. (1)  
In this course, students will treat two clinical endodontic cases, one of which shall be a molar. Clinic, 6 hours. Prereq: END 820.

*END 822 POSTERIOR ENDODONTICS. (2)  
This is a lecture-laboratory course which is designed to introduce the student to the diagnostic terminology of pulpal and periapical disease and the techniques of endodontic in posterior teeth. Lecture, 10 hours; laboratory, 30 hours. Prereq: END 820 and RSD 824, or consent of course director.

END 830 ENDODONTICS II. (1)  
This course concerns the diagnosis and treatment of endodontically related problems. Traumatic injuries, controversies in instrumentation and filling procedures, periodontic-endodontic consideration, surgical endodontics and other selected topics are discussed in depth. Lecture, 20 hours. Prereq: END 821.

END 831 CLINICAL ENDODONTICS II. (1)  
In this course students will treat routine endodontic cases. Clinic, 35 hours. Prereq: END 821.

END 841 CLINICAL ENDODONTICS III. (1)  
This course offers dental students further experience in providing endodontic treatment. Clinic, 40 hours. Prereq: END 831 or consent of instructor.

END 880 CLINICAL ENDODONTICS SEMINAR. (1)  
This course is designed to give a more in-depth hands-on view of some of the newest concepts in endodontics. Seminars will be presented including new concepts of instrumentation and root canal obturation. Demonstrations and hands on class participation will supplement the seminars. Note: scheduling for this course will take place outside of regularly scheduled class/clinic time. Prereq: END 830, END 831, ranked in the upper half of the class, and consent of instructor.

**OBI Oral Biology**

OBI 650 ORAL BIOLOGY FOR POSTGRADUATE DENTAL STUDENTS I. (2)  
This seminar course provides a review of selected biological science topics. Emphasis is placed on the use of current literature for an in-depth study of those aspects of the subject particularly relevant to dental practice. Lecture: 32 hours. Prereq: Admission to an advanced education program of the College of Dentistry or consent of instructor.

OBI 651 ORAL BIOLOGY FOR POSTGRADUATE DENTAL STUDENTS II. (2)  
This course is a continuation of OBI 650. It is a seminar that uses the scientific literature to review selected biological science topics with emphasis on those especially relevant to dental practice. Lecture: 32 hours. Prereq: OBI 650 or consent of instructor.
OBI 720 MICROBIAL STRUCTURE AND FUNCTION. (3)
Molecular basis of structure and function in unicellular microbes. Molecular genetic and structural approaches to the analysis of bacterial architecture growth, division, and differentiation. Prereq: (to reflect appropriate IBS course). (Same as MI 720 and BIO 720.)

OBI 812 DENTAL BIOCHEMISTRY. (6)
This is a comprehensive course in biochemistry designed to fulfill the specific needs of student dentists. Course content is generally as outlined in the American Association of Dental Schools suggested curriculum guidelines for biochemistry. Part I acquaints students with the chemical constituents of prokaryotic and eukaryotic cells; topics include the chemistry of lipids, carbohydrates, proteins, vitamins and coenzymes, and the nature of enzyme action. Part II integrates the chemical principles learned from Part I with concepts of cell dynamics, structure, function, subcellular organization, and metabolism. Topics include intermediary metabolism, bioenergetics, DNA replication, protein synthesis, and cellular regulatory and control mechanisms. Course content, where possible, is related to current concepts concerning the etiology of oral diseases, their treatment, and prevention to assist student dentists in attaining institutional goals and objectives for clinical competency. Prereq: Admission to the College of Dentistry. (Same as BCH 812).

OBI 814 HUMAN FUNCTION. (5)
This course provides in-depth instruction on the physiological mechanisms of body function from the single cell to the organism level. The course is taught by medical scientists and clinicians. Teaching methodologies include didactic and Socratic lectures, small group discussions, demonstrations and live model and computer simulated laboratories. Lecture, 80 hours. Prereq: Admission to the Dental School.

OBI 815 DENTAL GROSS ANATOMY AND (6)
Study of gross and developmental anatomy with particular emphasis on functional anatomy of the head and neck. Lecture/laboratory course, with dissection being an essential component of the laboratory portion. Hours: 1:1 ratio. Prereq: Admission to the College of Dentistry or some background in biology and consent of instructor. (Same as ANA 534.)

OBI 817 DENTAL NEUROANATOMY. (2)
Study of human dental neuroanatomy with emphasis on functional neuroanatomy of central nervous system, especially related to cranial nerves 5, 7, 9 and 10, pain, and long tracts. Lecture 1 hour a week. 25 hours. Prereq: Admission to the College of Dentistry, or some background in biology with permission from instructor. (Same as ANA 538.)

OBI 822 MICROBIOLOGY, IMMUNOLOGY AND INFECTIOUS DISEASE. (6)
This course enables student dentists to understand how microorganisms live and infect humans and how humans respond to these infections to preserve health. Part I of the course presents basic microbial structure, function, and genetics; and principles of chemotherapy and drug resistance. Part II covers mammalian host defenses and the molecular basis of immunity. Part III presents the biologic and clinical basis of infectious diseases of all major organ systems including the mouth. The course focuses on the mechanism of pathogenesis and the common features of all forms of parasitism beginning with the encounter of the host with the microbe and ending with the outcome - the host wins, the microbe wins, or they coexist. Dental examples are used where possible so that student dentists will be able to more readily apply concepts to the diagnosis, therapy, and prevention of infectious diseases of the mouth and contiguous tissues that they encounter later in the curriculum and in their practice of dentistry. Lecture: 103 hours.

OBI 836 DENTAL PHARMACOLOGY (3)
This course will provide students of dentistry with a fundamental understanding of the pharmacology and the therapeutic uses of drugs commonly used in their practice or by their patients. This course will reinforce topics discussed in CDS 821 (Local Anesthesia); in addition, the course will integrate with ODM 830 (Management of Medically Compromised Patient) and provide focused preparation for CDS 831 (Conscious Sedation). Lecture, 49 hours.

Prereq: OBI 812 (Dental Biochemistry), OBI 814 (Dental Physiology), and CDS 821 (Local Anesthesia) Prereq: OBI 812 and OBI 814. (Same as PHA 822.)

OBI 828 IMMUNITY, INFECTION AND DISEASE FOR THE STUDENT DENTIST. (11)
The course provides basic concepts of immunology and bacterial, viral, fungal and protozoal biology. It focuses on mechanisms of human immunity, immunologically mediated disease, and pathogenesis in infectious disease. The material covered includes relevant pathology associated with both immunologic and infectious diseases, and a summary of infectious diseases from a clinical perspective. Lecture: 20 hours per week. Prereq: Admission to the second year of dental curriculum or permission of course director. (Same as MI 828.)

OBI 829 ORAL BIOLOGY. (2)
This course will enable the dental student to apply basic oral biology principles to the contemporary diagnosis and treatment of oral disease. Oral biology is the study of the biologic sciences and their clinical correlates that pertain to the mouth and the contiguous tissues in health and disease. Major oral systems are studied at the complete, cellular, and molecular levels with emphasis on important clinical problems affecting both hard and soft tissues. Lecture, 34 hours. Prereq: ANA 530, OBI 812, OBI 814, CDS 820 or consent of instructor.

OBI 840 CLINICAL DENTAL PHARMACOLOGY. (1)
This course will reinforce to fourth year dental students the principles of basic and applied pharmacology enabling them to evaluate and manage patients with systemic and oral diseases. The course will be given before the Dental National Board Examination. This should help the students review for the pharmacology portion of the examination. Advances in drug therapy that
have occurred since the basic pharmacology courses will be discussed. The course will be presented in both lecture and case presentation format to help the students understand and recognize the importance of pharmacologic agents in the management of their patients. Lecture: 16 hours. Prereq: OBI 812, OBI 814, OBI 822, OBI 826, CDS 821 CDS 831, and ODM 831. (Same as PHA 840.)

**ODM Oral Diagnosis and Oral Medicine**

**ODM 820 ORAL AND MAXILLOFACIAL RADIOLGY AND DIAGNOSTIC IMAGING.** (2)
This course is designed to achieve proficiency in radiographic technique and the interpretation of intra-oral and extra-oral dental radiographs. Adult, pediatric, panoramic and occlusal techniques and interpretations are presented. Principles of image formation, radiation biology, radiation hazards and safety, new imaging procedures and special radiographic procedures for the dentist are included. Lecture/problem based learning/seminar/hands-on technique application; 32 hours. Prereq: CDS 815 or consent of course director.

*ODM 821 CLINICAL ORAL DIAGNOSIS I.** (1)
This course consists of two components: 1) examination, diagnosis, and treatment planning for patients assigned to dental students in general clinics; and 2) an emergency clinic assignment in which the students will diagnose and treat patients with acute oral problems. Clinic, 40 hours. Prereq: CDS 815; Coreq: CDS 824.

**ODM 830 MANAGEMENT OF THE MEDICALLY COMPROMISED DENTAL PATIENT.** (3)
This course will provide students with the knowledge required to manage medically compromised patients in the outpatient dental office. Basic clinic pathological information about commonly occurring medical disorders, the impact medications that these patients take have, the special problems they have, and their effects on dental health care will be presented. Critical thinking is encouraged so that the students can use their diagnostic skills in the appropriate manner to identify and manage patients with systemic disorders. Lecture, 43 hours; laboratory, 4 hours. Prereq: Approval of dean and/or his designee for academic affairs and the course director.

**ODM 831 CLINICAL ORAL DIAGNOSIS II.** (1)
This course is a continuation of ODM 821 and also consists of two components: 1) examination, diagnosis and treatment planning for patients assigned to dental students in general clinics; and 2) emergency clinic assignments in which the students will diagnose and treat patients with acute oral problems. Clinic, 77 hours. Prereq: ODM 821; coreq: CDS 832.

**ODM 841 CLINICAL ORAL DIAGNOSIS III.** (1)
This course is a continuation of ODM 831 and also consists of two components: (1) examination, diagnosis and treatment planning for patients assigned to dental students in general clinics; and (2) emergency clinic assignments in which the students will diagnose and treat patients with acute oral problems. Clinic, 115 hours. Prereq: ODM 830 and ODM 831.
OFP Oral Health Practice/Orofacial Pain Center

OFP 634 CURRENT CONCEPTS IN TEMPOROMANDIBULAR DISORDERS. (3)
This course provides the student with information on the anatomy, physiology and function of the masticatory system. The etiology, diagnosis and treatment of temporomandibular disorders will be emphasized. Lecture, 41 hours; laboratory, 15 hours per semester. Prereq: Acceptance into the College of Dentistry M.S. Program and/or consent of the College of Dentistry's Director of Graduate Studies and the course director.

OFP 636 CLINICAL MANAGEMENT OF TEMPOROMANDIBULAR DISORDERS. (3)
This course provides the student with clinical experience in the diagnosis and management of temporomandibular disorders. The student will provide treatment for patients referred to the Orofacial Pain Center under the supervision of the course director. Clinic, 144 hours. Prereq: Acceptance into the College of Dentistry M.S. Program and/or consent of the College's Director of Graduate Studies and the course director.

OFP 700 OROFACIAL PAIN TREATMENT PLANNING SEMINAR. (2)
This course will provide the student with experience in diagnosing and treatment planning various orofacial pain patients. Lecture: 32 hours per year or 16 hours per semester. Prereq: Acceptance into the College of Dentistry M.S. Program and/or consent of the College's Director of Graduate Studies and the course director.

OFP 734 CURRENT CONCEPTS IN OROFACIAL PAIN. (3)
This course provides the students with information on non-masticatory orofacial pain problems. The etiology and differential diagnosis of head and neck pain will be emphasized. The student will learn the dentist's role in the management and/or referral of complex facial pain problems. Prereq: OFP 634 and OFP 636.

OFP 736 CLINICAL MANAGEMENT OF OROFACIAL PAIN. (3)
This course provides the student with clinical experience in the diagnosis and management of complex orofacial pain problems. The student will provide treatment for patients referred to the Orofacial Pain Center under the supervision of the course director. Clinic, 144 hours. Prereq: OFP 634 and OFP 636.

OFP 748 MASTER'S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be requested to a maximum of six (6) semesters. Prereq: All course work toward the degree must be completed.

OFP 768 RESIDENT'S CREDIT FOR MASTER'S DEGREE. (1-6)
May be repeated for a total of 12 hours. Prereq: Admission to the Orofacial Pain graduate program and consent of the Director of Graduate Studies.

OFP 790 RESEARCH IN OROFACIAL PAIN. (1-6)
May be repeated for a total of 12 hours. Prereq: Admission to the Orofacial Pain graduate program and consent of the Director of Graduate Studies.

OHP  Oral Health Practice

OHP 850 INDEPENDENT WORK IN ORAL HEALTH PRACTICE. (1-3)
An elective course offered by the department of Oral Health Practice. Students may work on individual projects in one or more of the disciplines encompassed by this department under the direction of a faculty member. The work should involve independent laboratory or clinical research and include supporting literature searches. The end result should be either a table clinic presentation or a paper suitable for publication. The minimum number of hours to be spent on the project and the means of evaluation will be decided before beginning the project. May be repeated to a maximum of 12 credits. Prereq: Specific course prerequisites and year in dental school will depend on the nature of the proposed project; consent of instructor.

OHS  Oral Health Science

OHS 850 INDEPENDENT WORK IN ORAL HEALTH SCIENCE. (1-3)
An elective course offered by the department of Oral Health Science. Students may work on individual projects in one or more of the disciplines encompassed by this department under the direction of a faculty member. The work should involve independent laboratory or clinical research and include supporting literature searches. The end result should be either a table clinic presentation or a paper suitable for publication. The minimum number of hours to be spent on the project and the means of evaluation will be decided before beginning the project. May be repeated to a maximum of 12 credits. Prereq: Specific course prerequisites and year in dental school will depend on the nature of the proposed project; consent of instructor.

OPT  Oral Pathology

OPT 650 GRADUATE ORAL PATHOLOGY I. (2)
This is a seminar course in advanced oral pathology in which students study the microscopic, radiographic, and clinical features and the management of diseases that affect oral and perioral tissues. A case study format is used to discuss both common and rare conditions that illustrate all major disease categories and to provide a framework for developing a systematic approach to disease diagnosis. Lecture: 36 hours. Prereq: Dental degree and enrollment in a College of Dentistry postgraduate program, or consent of instructor.

OPT 651 GRADUATE ORAL PATHOLOGY II. (2)
This course is a continuation of OPT 650. It is a seminar in advanced oral pathology in which students study the microscopic, radiographic, and clinical features and the management of
diseases that affect oral and perioral tissues. A case study format is used to discuss both common and rare conditions that illustrate all major disease categories and to provide a framework for developing a systematic approach to disease diagnosis. Lecture: 36 hours. Prereq: OPT 650 or consent of instructor.

OPT 820 GENERAL PATHOLOGY FOR STUDENT DENTISTS. (3)
This basic course covers general pathology, which will prepare the student dentist to concentrate on the specialized area of oral pathology. Emphasis is placed on cell damage, inflammation and repair, neoplasia and hemostasis, as well as the in-depth study of selected systemic diseases that may affect dental patient management. Lecture, 54 hours. Prereq: Enrollment in the College of Dentistry and second year class standing, ANA 530, ANA 532, or consent of course director.

OPT 830 ORAL PATHOLOGY I. (3)
This is a comprehensive lecture course on oral and paraoral diseases. The course deals mainly with the clinical aspects of oral disease, with emphasis on clinical and/or radiographic appearance, etiology, management and prognosis. Lecture, 41 hours, and 4 one-hour examinations. Prereq: OPT 820.

OPT 832 ORAL PATHOLOGY II. (1)
This course teaches the dental student an effective approach to patients with oral lesions. It will stress the following: development of a reasonable differential diagnosis list, procedures to be used in obtaining a definitive diagnosis, management of the patient after a diagnosis has been made, and treatment if indicated. Attendance at one lecture and one session of Head and Neck Oncology Clinic is included in the course. Seminar, 26 hours; clinic, three hours. Prereq: OPT 830.

*OPT 840 ORAL PATHOLOGY III. (1)
This is an advanced course in oral pathology in which various diseases and abnormal conditions of the head, neck and oral cavity are presented. The pertinent information on several selected cases will be on display for a week each and then followed by a lecture/discussion period for the development of a differential diagnosis, establishment of a definitive diagnosis, and discussion of treatment and prognosis. Attendance at one lecture and one session of Head and Neck Oncology Clinic is included in the course. Lecture, 21 hours; clinic, three hours. Prereq: OPT 832.

OPT 850 ORAL PATHOLOGY ELECTIVE. (1-10)
Elective courses offered by the Department of Oral Pathology provide opportunities for further study of or experience in various aspects of oral pathology. Topics may include principles of clinical and histologic diagnosis, the management of patients with oral disease, and discussions of specific oral diseases. Hours variable, ranging from a minimum of 16 hours lecture/discussion to a maximum of 10 weeks clinical experience. May be repeated to a maximum of 10 credits. Prereq: The minimum year in dental school and any course prerequisites will be announced for each topic.
OPT 880 CLINICAL PHOTOGRAPHY FOR DENTAL PRACTITIONERS. (1)
This course is designed to teach dental health professionals basic photographic principles and an effective technique of intraoral photography. Topics of interest include photographic equipment, film, and lighting and exposure techniques. The effects of alterations in shutter speed, aperture and lens focal length will be stressed. A step-by-step procedure for dental clinical photography will be presented. Note: scheduling of this course will not interfere with regularly scheduled class/clinic time. Prereq: 4th year standing in the College of Dentistry.

ORT Orthodontics

ORT 610 CRANIO-FACIAL FORM. (2)
This is a two credit-hour seminar course that introduces students to the basic concepts and principles of cephalometrics in orthodontic diagnosis and treatment. The course reviews historical literature as well as contemporary articles. Prereq: Admission to graduate dental programs; D.D.S. or D.M.D. degree.

ORT 620 ORAL-PHARYNGEAL FUNCTION, PART I. (2)
Basic and applied physiology for graduate students in dentistry. Class, two and one-half hours. Prereq: Admission to a graduate program of the College of Dentistry; D.D.S. or D.M.D. degree.

ORT 621 ORAL-PHARYNGEAL FUNCTION, PART II. (2)
A continuation of ORT 620, emphasizing speech physiology and language development. Lecture, two and one-half hours. Prereq: Admission to a graduate program of the College of Dentistry; D.D.S. or D.M.D. degree.

ORT 660 ORTHODONTIC DIAGNOSIS. (2)
This is a two credit-hour seminar course offered at the graduate level within the specialty program in orthodontics. The course provides in-depth information concerning methods and rationale for gathering a comprehensive database for orthodontic patients. Analysis and interpretation of the database is approached by using the orthogonal analysis technique. The process of developing a treatment plan from the database will be thoroughly explored. Prereq: Admission to a postdoctoral program of the College of Dentistry.

ORT 661 ORTHODONTIC SEMINAR-CLINIC. (3)
Seminar, laboratory and clinical instruction in orthodontic theory and practice. Lecture, three hours; laboratory, 15 hours. May be repeated to a maximum of 12 credits. Prereq: ORT 660.

ORT 662 ORTHODONTIC TECHNIQUE. (2)
This is a two credit-hour graduate level course designed to introduce or reacquaint the student with some of the most commonly used techniques in orthodontic practice. It is closely related to the diagnosis and treatment planning course and to the course on mechanics. Prereq: Admission to a postdoctoral program of the College of Dentistry.
ORT 664 BIOMECHANICS. (1)
Biological reactions of the periodontal and craniofacial structures during orthodontic treatment, as well as theoretical mechanical principles of tooth movement are taught in this course. Lecture, 22 hours. May be repeated to a maximum of two credits. Prereq: Admission to a postdoctoral program in the College of Dentistry.

ORT 710 MANAGEMENT OF COMPLEX OROFACIAL DEFORMITIES. (1)
Seminar discussions of techniques in orthodontic problem solving and planning treatment for patients with orofacial deformities refractory to either orthodontic therapy or oral surgery but which are resolvable by utilizing combinations of orthodontic and oral surgical therapies. Lecture, one hour per week; laboratory, one hour per week. Prereq: ORT 660 or permission of instructor.

ORT 748 MASTER'S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

ORT 768 RESIDENCE CREDIT FOR MASTER'S DEGREE. (1-6)
Maximum of nine weeks residence credit. Prereq: Admission to the orthodontic graduate program of the College of Dentistry or consent of instructor.

ORT 770 ORTHODONTIC SEMINAR. (1)
Seminar in orthodontic theory and practice for advanced graduate and postdoctoral students in orthodontics. May be repeated to a maximum of six credits. Lecture, three hours. Prereq: Admission to the Orthodontics Graduate Program and consent of course director.

ORT 790 RESEARCH IN ORTHODONTICS. (1-5)
Research in orthodontics. May be repeated to a maximum of five credits. Prereq: Admission to the orthodontic graduate program of the College of Dentistry; special permission.

ORT 822 ORTHODONTICS I. (3)
This course concerns the development of knowledge and skills needed to conduct a thorough orthodontic diagnosis and to plan orthodontic therapy. Lectures are oriented to data base collection, analysis and interpretation. Laboratory exercises provide opportunity to develop skills in analysis of facial proportions, analysis of diagnostic dental casts, cephalometric tracings, formulating a prioritized problem list and development of long-term and short-term treatment goals. A clinical experience is provided to collect records in a child patient. Seminar discussions are provided to discuss and review the database. Lecture, 15 hours; laboratory, 12 hours; seminar, 22 hours. Prereq: Second year standing in College of Dentistry, CDS 812.

ORT 830 ORTHODONTICS II. (2)
This course is concerned with the teaching of pre-clinical orthodontic technique and theory. The course is designed to give the student a basic understanding of the skills required to fabricate fixed and removable appliances that are typically indicated for limited tooth movement and retention in interceptive orthodontics and adjunctive orthodontic treatment in a general practice setting. The role of the general dentist in the management of their patients' orthodontic needs will be delineated. Special emphasis will be placed on coordination of treatment between the specialist and general practitioner and maintenance of occlusion over the life span of the patient. Lecture; 16 hours; laboratory, 16 hours. Prereq: CDS 812, ORT 822.

ORT 841 CLINICAL ORTHODONTICS. (1)
This clinical course requires the students to analyze and diagnose the present and developing occlusal disharmonies in their assigned patients and to provide therapy for those patients who need tooth movements judged to be within the scope of the general practice of dentistry. Clinic, 57 hours. Prereq: ORT 820 and consent of course director.

OGS Oral and Maxillofacial Surgery

OSG 651 ANATOMICAL RELATIONSHIPS IN SURGERY. (1)
A seminar course for dental graduate students in areas other than surgery, emphasizing anatomical and surgical principles applicable to all dental specialties. Prereq: Admission to graduate or post-doctoral programs of College of Dentistry; D.D.S. or D.M.D. degree.

OSG 820 ORAL SURGERY I. (1)
The general objectives of this course are to teach the student the significance of a history and physical examination, how to identify and use basic oral surgery instruments, how to perform basic oral surgical techniques including the removal of teeth and preparation of the mouth for dentures. Lecture, 20 hours. Prereq: CDS 811 or consent of course director.

OSG 830 ORAL SURGERY II. (1)
This course is an overview of the specialty of oral surgery. The student is introduced to the surgical management of congenital and acquired abnormalities of the oral structures and associated parts. Management of odontogenic infection, cysts and tumors is presented, as well as the role of the dentist in the care of head and neck cancer patients. The diagnosis and management of facial fractures also are presented, particularly as they relate to the general practitioner. Lecture, 25 hours. Prereq: OSG 820 or consent of course director.

OSG 831 ORAL SURGERY ROTATION I. (2)
This course teaches the management of the ambulatory oral surgical patient. It includes patient evaluation, control of pain and anxiety, performance of minor oral surgical procedures, treatment of acute and chronic oral infections and of complications associated with oral surgery, and the
use of the problem-oriented record. Slide-text programs and reading assignments supplement the outpatient clinical experience. Prereq: CDS 821 and OSG 820 or consent of course director.

OSG 841 ORAL SURGERY ROTATION II. (2)
In this course students learn the management of oral surgical patients in a hospital. It consists of a full-time rotation on the oral surgery hospital service, including standing in-hospital night call with the oral surgery house staff. Students assist in patient care and perform procedures such as exodontia and biopsy. Oral surgical management of comprehensive care patients in the outpatient clinic is also included. Clinic, two weeks. Prereq: OSG 830 and OSG 831.

PDO Pediatric Dentistry

PDO 610 PEDIATRIC DENTISTRY SEMINAR I (2)
This seminar course is the first of a series of three such courses that discuss essential elements of clinical pediatric dentistry, with emphasis on the scientific evidence supporting contemporary practice. Topics for the seminars include: management of the child patient, prevention dentistry, restorative dentistry, pulp therapy, management of the arch circumference, abnormal dental development and treatment of children with special care needs. Lecture, 32 hours. Prerequisite: Enrollment in the College of Dentistry’s Master of Science degree program.

PDO 620 PEDIATRIC DENTISTRY SEMINAR II (2)
This course is a continuation of PDO 610, addressing the issues of the clinical practice of contemporary pediatric dentistry. Lecture, 32 hours. Prerequisite: PDO 610.

PDO 630 PEDIATRIC DENTISTRY SEMINAR III (2)
This course is a continuation of PDO 610 and PDO 620, addressing the issues of contemporary practice in pediatric dentistry. Prerequisites: PDO 610 and PDO 620.

PDO 640 PEDIATRIC SEMINAR IV (2)
This course reviews all the required and suggested readings in preparation for the comprehensive written section of the examination for certification by the American Board of Pediatric Dentistry. Lecture, 32 hours. Prerequisites: PDO 610, PDO 620, and PDO 630.

PDO 748 MASTER’S THESIS CREDIT (0)

PDO 768 RESIDENCY CREDIT FOR MASTER’S DEGREE (1-6)
This course provides credit for development and completion of the thesis required for the master’s degree as described by the College of Dentistry and the Graduate School.

PDO 822 PEDIATRIC DENTISTRY I. (2)
In this course in dentistry for children, emphasis will be placed on principles of oral surgical procedures, advanced restorative techniques, diagnosis and treatment of traumatic injuries,
preventive dentistry and diagnosis and treatment of oral habits and cosmetic dentistry. Lecture, 26 hours; laboratory, 6 hours. Prereq: Second year standing in the College of Dentistry.

PDO 831 CLINICAL PEDIATRIC DENTISTRY I. (2)
This is an introductory clinical course instructing student dentists in oral health care for children. Clinic Hours: 75 Prereq: PDO 822 Coreq: PDO 834
PDO 834 PEDIATRIC DENTISTRY II. (2)
This course is designed to introduce basic modern concepts in dentistry for children. Emphasis is placed on principles of child behavior management and basic restorative dentistry techniques. Lecture: 32 hours. Prereq: 2nd year standing in the College Dentistry.

PDO 841 CLINICAL PEDIATRIC DENTISTRY II. (4)
This is an advanced clinical course instructing student dentists in oral health care for children. Clinic Hours: 75 Prereq: PDO 822, PDO 834, and PDO 831.

PER Periodontics

PER 626 ADVANCED CONCEPTS IN GENERAL DENTISTRY. (1)
This course presents, by seminar, lecture or continuing education courses, advanced concepts in general dentistry that are essential to the clinical practice of periodontics. It includes advanced instruction in orthodontics, periodontal prosthesis, prosthodontics and oral surgery. May be repeated to a maximum of four credits. Prereq: Admission to a postdoctoral program of the College of Dentistry or consent of course director.

PER 661 MODERN CONCEPTS IN PERIODONTICS. (2)
A seminar course designed to present the present understanding of the etiology of periodontal disease and current techniques for treatment of periodontal problems. Prereq: Admission to graduate program of College of Dentistry; D.D.S. or D.M.D. degree.

PER 748 MASTER'S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

PER 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE. (1-6)
May be repeated for a total of 12 hours. Prereq: Admission to the Periodontics postdoctoral program and consent of director of graduate studies.

PER 770 TREATMENT PLANNING SEMINAR. (2)
In this seminar course, graduate students present and discuss diagnosis, prognosis, ideal treatment plans and alternative treatment plans for patients with periodontal disease. Each
student gives at least eight case presentations. May be repeated to a maximum of eight credits. Lecture, 40 hours. Prereq: Admission to the Periodontics postdoctoral program or consent of course director.

PER 772 PERIODONTAL BIOLOGY AND PATHOLOGY. (2)
Seminar discussions, review and evaluation of the literature covering periodontal anatomy, periodontal biology, the pathology of periodontal diseases and etiological factors in periodontal disease. The subject area will be covered in four semesters. May be repeated four times for a maximum of eight credits. Lecture, 40 hours. Prereq: Admission to the Periodontics postdoctoral program or consent of course director.

PER 774 PERIODONTICS SURGICAL SEMINAR. (1)
In this seminar course participants present, discuss and critique surgical procedures that have been accomplished in the clinic. Reading assignments from the literature augment the clinical discussions and students are encouraged to use the literature to justify their procedures. Cases are presented on a rotating basis. May be repeated to a maximum of four credits. Prereq: Admission to Periodontics postdoctoral program or consent of course director.

PER 776 PERIODONTAL THERAPY SEMINAR. (1)
This is an advanced series of seminars on the clinical aspects of periodontal therapy. During the course, the students will learn about various modalities of periodontal therapy as presented in the periodontal literature, e.g., mucogingival treatment, implants and curettage. May be repeated to a maximum of two credits. Prereq: Admission to the Periodontics postdoctoral program or consent of course director.

PER 790 RESEARCH IN PERIODONTICS. (1-3)
This course involves direct student participation in a research project. Projects and thesis are approved by the course director and may be clinical, laboratory experimental or related to dental education. Projects may include original or ongoing research within the Department of Periodontics or other departments of the Medical Center. May be repeated to a maximum of six credits. Prereq: Admission to the Periodontics postdoctoral program and consent of the department involved.

PER 810 PERIODONTICS I. (1)
This course is an introduction to periodontology. Emphasis is on recognition of healthy gingival characteristics and early disease progression. The student is also introduced to etiology, epidemiology and immunology related to periodontal assessments, and plaque control measures. Lecture, 23 hours; laboratory, nine hours. Prereq: CDS 815 or consent of instructor.

PER 820 PERIODONTICS II. (3)
This course presents the components of the first stages of periodontal therapy. Emphasis is on diagnosis, prognosis, treatment planning and non-surgical treatment of the periodontally involved patient. Lecture, 36 hours; laboratory, 24 hours. Prereq: PER 810 or consent of instructor.
PER 821 CLINICAL PERIODONTICS II. (2)
This is a course designed to provide the student with clinical experience so that he can obtain a minimal competence in the applications of periodontal procedures. Therapeutic procedures involving initial periodontal therapy will be performed by each student. Prereq: PER 811, or consent of instructor.

PER 830 PERIODONTICS III. (1)
This is a surgically oriented course which presents information necessary for the diagnosis, treatment planning and treatment of surgical cases. The information gained is applied to planning treatment for actual surgical cases. Lecture, 24 hours; laboratory, 4 hours. Prereq: PER 820 or consent of course director.

PER 831 CLINICAL PERIODONTICS III. (2)
This is a clinical course which offers the student the opportunity to treat patients with more advanced periodontal disease. Therapeutic procedures will be performed by each student as his patients' needs dictate. Prereq: PER 821; corequisite: PER 830; or consent of instructor.

PER 841 CLINICAL PERIODONTICS IV. (4)
This clinical course is a continuation of PER 831. The student receives further instruction and experience in diagnosing, planning treatment and treating patients with periodontitis and mucogingival problems. Prereq: PER 830 and PER 831, or consent of instructor.

PRO Prosthodontics

PRO 820 PRECLINICAL COMPLETE
DENTURE PROSTHODONTICS (Lecture). (2)
This preclinical lecture course provides an introduction to basic concepts of diagnosis and treatment planning, fabrication, placement and maintenance of complete dentures, as well as the related biological and mechanical factors that must be incorporated for living tissue to be compatible with complete dentures. Lecture, 36 hours. Prereq: Advancement to second year standing or consent of course director. Coreq: PRO 822.

PRO 821 CLINICAL COMPLETE
DENTURE PROSTHODONTICS. (1)
The treatment of a patient with complete maxillary and mandibular denture needs is performed in the clinic by the student. The student will assist an upper level student in the examination of a complete denture and a removable partial denture recall patient. Coreq: PRO 820.

PRO 822 PRECLINICAL COMPLETE
DENTURE PROSTHODONTICS (Lab). (2)
This preclinical laboratory course provides an introduction to basic concepts of diagnosis and treatment planning, fabrication, placement and maintenance of fabrication of complete dentures as well as the related biological and mechanical factors that must be incorporated for living
tissue to be compatible with complete dentures. Lab, 63 hours. Prereq: Advancement to second year standing or consent of course director. Coreq: PRO 820

PRO 824 REMOVABLE PARTIAL DENTURES. (2)
This course is designed to teach the student the basic principles and the practical procedures in providing a therapeutic and functional removable restoration. The course also presents the laws and effects of leverages as related to removable partial dentures as well as the considerations for support, occlusion, and health of all oral structures. Lecture, 19 hours; laboratory, 45 hours. Prereq: PRO 820.

PRO 830 ADVANCED REMOVABLE PROSTHODONTICS. (1)
This course is a continuation of PRO 820. It presents more advanced technique and treatment planning for complex prosthodontic needs. Subjects included are immediate dentures, overdentures and dental implants. Lecture, 21 hours. Prereq: PRO 820 and PRO 824.

PRO 831 CLINICAL REMOVABLE PROSTHODONTICS. (2)
A patient with complete denture needs is treated by the student clinically in the course. The student may opt to treat a patient with immediate, intermediate or overdenture needs. He may initiate and/or complete the treatment of two patients with removable partial denture needs. The student may also treat an optional, additional patient in need of a complete or removable partial denture. The student will recall a minimum of two removable prosthodontic patients and perform any treatment necessary for these patients. Prereq: PRO 821; coreq: PRO 830.

PRO 834 PRECLINICAL RESTORATIVE DENTISTRY III. (3)
This is a preclinical course with emphasis on dental hard tissue surgery and restorative procedures for anterior and posterior fixed prosthodontics. Contemporary principles of fixed prosthodontics, including the long term maintenance of dental health, are presented in lectures and applied in practice using manikins. Knowledge gained in previous restorative dentistry courses are applied to more extensive restorations. Lecture, 24 hours; laboratory, 84 hours. Prereq: RSD 822, 823, 824, 825 and 826.

PRO 836 PRINCIPLES OF FIXED PROSTHODONTICS. (2)
This course is a lecture series concerning diagnosis and treatment planning for fixed prosthodontics care and the principles of providing that care. The relationship of tooth restoration and replacements to occlusion, periodontics, orthodontics and removable prosthodontics in both treatment planning and treatment is emphasized. Lecture, 30 hours. Prereq: RSD 823, RSD 821, RSD 822, RSD 824; and/or consent of course director.

PRO 841 ADVANCED CLINICAL REMOVABLE PROSTHODONTICS. (2)
This course covers basically the same area as PRO 831 with the exception that the student is to treat the patient with complete denture needs with less supervision from the instructors. If not done previously, the student must initiate and complete the treatment of two patients with
removable partial denture needs. The student will recall three removable prosthodontic patients and will perform any treatment necessary for these patients. Prereq: PRO 831.

**RSD  Restorative Dentistry**

**RSD 810 FUNDAMENTALS OF OPERATIVE DENTISTRY I LECTURE.** (2)
This lecture course in operative dentistry is designed to provide a beginning student with basic knowledge about cavity preparation and restorative techniques for amalgam and resin composite. This course, together with a complementary laboratory course, RSD 814, is directed at preparing the student with knowledge and skills in the diagnosis and treatment of carious lesions necessary for patient care in operative dentistry. Lecture, 29 hours. Prereq: RSD 812, or consent of course director; coreq: RSD 814.

**RSD 811 PRINCIPLES OF DENTAL ANATOMY, MORPHOLOGY AND OCCLUSION LECTURE.** (3)
This introductory course is designed to provide the student dentist with the necessary knowledge of dental anatomy, dental morphology and basic dental occlusion for all succeeding courses in preclinical and clinical dentistry. This includes a detailed description and study of individual teeth, the relationship of dentoform and function, mandibular movement and introduction to muscles of mastication. Lectures related to biomaterials are added as needed. Lecture, 45 hours. Prereq: Admission to the college or the consent of the course director. Coreq: RSD 812.

**RSD 812 PRINCIPLES OF DENTAL ANATOMY, MORPHOLOGY AND OCCLUSION LABORATORY** (3)
This introductory course is designed to provide the student dentist with the necessary working knowledge of dental anatomy, dental morphology and basic dental occlusion for all succeeding courses in preclinical and clinical dentistry. This includes a detailed study of individual teeth, the relationship of dentoform and function, mandibular movement and the basic introduction and use of the dental articulator. Lectures and laboratory experiences related to dental biomaterials are included as needed. Laboratory 99 hours. Prereq: Admission to the college or consent of the course director. Coreq: RSD 811.

**RSD 814 PRECLINICAL OPERATIVE DENTISTRY I.** (2)
This first-year preclinical laboratory course in operative dentistry is designed to provide a beginning student with basic skills for cavity preparation and restorative techniques for amalgam and resin composite. This course, together with the complementary lecture series course, RSD 810, is directed at preparing the student with the knowledge and skill necessary for patient care in operative dentistry. Laboratory 69 hours. Prereq: RSD 812, RSD 810 as corequisite, or consent of instructor.

**RSD 816 ESTHETIC DENTISTRY I.** (1)
This lecture course is designed to provide a beginning student the basic principles of cavity preparation and restoration with esthetic dental materials. Materials include resin composite,
resin ionomer and glass ionomer. This course, together with the complementary laboratory course, RSD 818, is directed at preparing the student with knowledge and skills in the diagnosis and treatment of defective tooth structure associated with anterior teeth. Lecture, 16 hours. Prereq: RSD 812, RSD 810, RSD 814 or the consent of the course director.

RSD 818 PRECLINICAL ESTHETIC DENTISTRY I. (1)
This first-year preclinical course in esthetic dentistry is designed to provide a beginning student with the basic skills for cavity preparation and restorative techniques for using tooth-colored restorative materials. This course, together with the complementary lecture series course, RSD 816, is directed at preparing the student for patient care in esthetic dentistry. Laboratory, 39 hours. Prereq: RSD 812, RSD 810, RSD 814 or consent of the course director.

RSD 821 CLINICAL RESTORATIVE DENTISTRY I. (3)
This course emphasizes clinical application of the principles taught in preclinical courses. Concepts of diagnostic and therapeutic procedures as well as preventive measures are applied in the clinic with emphasis on the demonstration of competency in rendering primary care type treatment procedures. Prereq: RSD 814; coreq: RSD 824.

RSD 822 PRINCIPLES OF DENTAL OCCLUSION AND ARTICULATION. (3)
This course is directed toward the examination, diagnosis, treatment planning, and treatment of various occlusal problems. The student will learn the skills needed to analyze the dental occlusion of patients and to plan successful occlusal therapy including restorative procedures and fixed prosthodontic treatment. The course will concentrate on developing technical skills and learning assessment criteria related to mounted study casts, occlusal examination and analysis, selective occlusal adjustment, diagnostic pre-waxing and planning, and the fabrication of a muscle relaxation occlusal splint. Lecture, 23 hours; laboratory, 27 hours; clinic, 27 hours. Prereq: CDS 815, RSD 812, or with approval of the course director.

RSD 823 PRECLINICAL RESTORATIVE DENTISTRY II. (1)
This is a didactic course with emphasis on the basic knowledge required for tooth preparation and indirect single tooth dental restoration. The materials science and correct manipulation of dental stones, alloys and luting agents are emphasized. Lecture, 22 hours. Prereq: RSD 812, RSD 810, RSD 814, RSD 816, or consent of instructor.

RSD 824 PRECLINICAL RESTORATIVE DENTISTRY II. (2)
This preclinical course places emphasis on dental hard tissue surgery and on their restoration to meet the biological needs of the patient. Tooth preparation and extracoronal restorations are performed on manikins and extracted teeth. The materials science and correct manipulation of investments, alloys and cements used to make case restorations are emphasized. Knowledge gained in dental morphology and occlusion is applied in the course. Laboratory: 54 hours. Prereq: RSD 812, RSD 814, RSD 818; concur: RSD 823, or consent of instructor.
RSD 825 PRECLINICAL RESTORATIVE DENTISTRY II. (1)
This course is a continuation of RSD 823 with emphasis on single tooth indirect intra-coronal restorations and restorations of the endodontically treated tooth. Lecture, 17 hours. Prereq: RSD 823.

RSD 826 PRECLINICAL DENTISTRY II LABORATORY. (2)
This is a preclinical course with emphasis on dental hard tissue surgery and restorative procedures for single tooth indirect restorations. Clinical simulation procedures are performed on manikins and extracted teeth. Laboratory, 54 hours. Prereq: RSD 823, RSD 824, or consent of course instructor. Coreq: RSD 825.

RSD 827 DENTAL BIOMATERIALS. (2)
In this course, the materials science, proper manipulation and biocompatibility of a wide variety of dental biomaterials are examined. The durability and biocompatibility of similarly utilized materials are compared. Diagnosis of the causes of clinical materials-related failures is emphasized. Lecture, 40 hours. Prereq: PRO 820 and RSD 824 or consent of course director.

RSD 831 CLINICAL RESTORATIVE DENTISTRY II. (4)
A continuation of RSD 821 as well as some clinical application of principles taught in RSD 824. The emphasis continues to be on the delivery of primary care type treatment with increasing competency and proficiency. Some emphasis is directed toward elementary experiences in rehabilitative type treatment procedures and occlusal dysfunctions. Prereq: RSD 821 and RSD 824; coreq: RSD 830 and RSD 834.

RSD 835 ADVANCED ESTHETICS IN RESTORATIVE DENTISTRY. (2)
This course is designed to introduce current concepts in esthetic restorative dentistry to undergraduate dental students in their third year. The techniques presented will build upon previously developed restorative didactic and clinical knowledge, but incorporate additional dental techniques and materials developed specifically for esthetic dentistry. Current dental materials being used by this discipline will be discussed as they apply to specific topics. Lecture, 16 hours; laboratory, 27 hours. Prereq: RSD 810, 812, 814, 816, 818, 821, 822, 823/825, 824, 826, and 827.

RSD 840 RESTORATIVE DENTISTRY UPDATE. (1)
Students are provided current information on advanced restorative dentistry clinical procedures and materials. Emphasis will be given to diagnosis, treatment planning and treatment of the complex restorative dentistry patient. The format of the course will be "clinical case presentation". Lecture 10; laboratory, 10 hours. Prereq: RSD 830 and RSD 834.
RSD 841 CLINICAL RESTORATIVE DENTISTRY III. (3)
As the final phase in the undergraduate clinical continuum, this course continues to emphasize primary care concepts and proficiency. In addition, more complicated rehabilitative type care and occlusal dysfunction problems are encountered by the student under faculty supervision. Prereq: RSD 830, RSD 831 and RSD 834.

RSD 880 COMPACTED GOLD RESTORATIONS. (1)
This course introduces the student to the use of compacted gold as a restorative material. The restoration of Class III and Class V lesions is performed in the laboratory. Students are required to purchase gold they use in the course. Note: scheduling for this course will be outside of regularly scheduled class/clinic time. Prereq: RSD 824, third year standing.

RSD 881 ADVANCED FIXED PROSTHODONTICS. (1)
This course is a continuation of Principles of Fixed Prosthodontics (RSD 830). Primarily, this course will consist of a review of topics presented in RSD 830 discussed in greater depth and detail. Examples are cosmetic dentistry and complex fixed prosthodontics. Secondarily, more advanced material will be presented such as prosthodontic problem solving, and extensive reconstruction on telescopic crowns. The goal of the course is to provide the prosthodontic knowledge base and to ultimately develop a greater clinical efficiency in fixed prosthodontics. Note: scheduling for this course will be outside of regularly scheduled clinic/class time. Prereq: RSD 830, 4th year standing.

RSD 882 ESTHETIC DENTISTRY ELECTIVE. (1)
This course is designed to introduce current concepts in esthetic restorative dentistry to undergraduate dental students in their 4th academic year. The techniques presented will build upon previously developed restorative didactic and clinical knowledge, but incorporate additional dental techniques and materials developed specifically for esthetic dentistry. Current dental materials being used by this discipline will be discussed as they apply to specific topics. Lecture, nine hours. Note: scheduling for this course will be outside of regularly scheduled clinic/class time. Prereq: RSD 810, 814, 816, 818, 821, 822, 823/824, 825/826, 827 or consent of course director.

RSD 883 INTRODUCTION TO SPORTS DENTISTRY. (1)
Introduction to Sports Dentistry is an elective course designed to educate about the opportunities available to become involved with sports teams in your community. The course topics will include: Types of dental injuries related to athletics, prevention of injuries, role of team dentist, types of sports guards and methods of fabrication of sports guards. Lecture: 10 hours; laboratory 6 hours, per course. Prereq: 4th year dental student in good standing; consent of course director. Note: Scheduling of this course will be outside the regularly scheduled clinic/class time.