GENERAL DENTISTRY/ORAL MEDICINE (GDOM)

Subject-area course lists indicate courses currently active for offering at the University of Louisville. Not all courses are scheduled in any given academic term. For class offerings in a specific semester, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm).

Course Fees

Some courses may carry fees beyond the standard tuition costs to cover additional support or materials. Program-, subject- and course-specific fee information can be found on the Office of the Bursar website (http://louisville.edu/bursar/tuitionfee).

GDOM 800. Dental Anatomy and Occlusion 2 Units
Term Typically Offered: Fall Only
Description: Dental Anatomy is a preclinical course comprised of a lecture series designed to familiarize D1 students with the general anatomical characteristics of the human oral cavity. The external and internal crown and root morphology of both permanent and primary dentitions is presented in detail. The relationship of anatomical features of teeth to the practice of clinical dentistry is stressed throughout the course. Emphasis is placed on the function of occluding surfaces and the relationships of external crown form to prevention of periodontal disease and dental caries.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 801. Dental Anatomy and Occlusion Lab 3 Units
Term Typically Offered: Fall Only
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 802. Introduction to Preventive Dentistry 1 Unit
Description: This is a graded course for the incoming students. It is a preliminary approach to the etiology and pathogenesis of dental caries and periodontitis with discussions of salivary physiology, caries risk assessment, OTC preventive products, prescription RX preventive products, nutrition and oral health throughout the life span, and clinical applications of fluoride.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 803. Preclinical Operative Dentistry Lecture 2.5 Units
Prerequisite(s): GDOM 800.
Description: A preclinical course comprised of a lecture series designed to familiarize D1 students with the terminology, materials, and instruments used in operative dentistry; principles of cavity preparation for amalgam, resin composite, and glass ionomer manipulation, placement, and finishing; and pulp protection. Dental Anatomy and Occlusion principles are applied to operative dentistry.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 804. Preclinical Operative Dentistry (Lab) 3 Units
Term Typically Offered: Spring Only
Prerequisite(s): GDOM 803.
Description: The laboratory series is designed to introduce the D1 student to the basic theory and techniques used in Operative Dentistry. Emphasis is placed on preservation of tooth structure from further destruction by dental disease. Technical skills in the placement of composite resin and amalgam restorations are developed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 805. Introduction to Clinical Dentistry I 2.5 Units
Description: This course serves to introduce the first year dental students to the School of Dentistry's clinical operations with special attention to alginete impressions, pouring casts, critical thinking, oral health and preventive dentistry. Emphasis will be placed on systemically cultivated excellence in thought. The course includes a wide variety of lectures and activities in many areas of the Dental School. Exercises may include preclinical and clinical exercises including treating standardized patients.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 807. Evidence-Based Decision Making 0.5 Units
Grading Basis: Pass/Fail
Prerequisite(s): DMD student.
Description: Evidence-Based Decision Making is the use of the best available evidence together with a clinician's expertise and a patients values and preferences in making health care decisions. Students will develop skills for identifying, searching for, and interpreting the results of the best scientific evidence. Students will be introduced to the behavioral sciences aspects of shared decision making in which they integrate the scientific evidence with their particular clinical skill set and the patient's unique values and circumstances to develop together patient care decisions. As its best, this process involves presentations of accurate information about alternate strategies, including no treatment, in an unbiased fashion so that individual preferences and values can be integrated with science.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 812. Introduction to Clinical Dentistry II 3 Units
Description: This course serves to introduce the student to the ULSD's clinical operations with special attention to the delivery of care to patients in the school's comprehensive care and admissions clinic. Will include dental auxiliary utilization (DAU) and dental practice ergonomics exercises with a wide variety of lectures and activities in many areas of the dental school. There are several clinical exercises that review rubber dam placement, prepping and restoring class I and II amalgams and Class III composites, and performing a hard and soft tissue exam. All preclinical and clinical exercises will require students to complete a PARTS note, update and review medical history in axiUm, use correct CDT codes for every treatment procedure completed and to practice appropriate ULSD infection control practices. Students will also receive training and assignments using axiUm, which is the ULSD’s clinic management system. This course will also integrate an education module on culturally and linguistically appropriate care in order to fulfill the first part of the ULSD Cultural Competency.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
GDOM 815. Preclinical Operative Dentistry II 4 Units
Term Typically Offered: Spring Only
Prerequisite(s): GDOM 800, GDOM 801, and GDOM 804.
Description: Consists of a lecture and laboratory series that is designed to introduce the D2 dental students to the theory and techniques used in advanced direct restorative dentistry. The study of the physical properties, manipulation, and chemistry of the dental materials utilized is included. Emphasis is placed on preservation of tooth structure from further destruction by dental disease while utilizing advanced retentive techniques for large direct restorations. Technical skills and advanced retentive methods used in the placement of composite resin and amalgam restorations are developed. Course teaches techniques to include pins, slots and multi-cusp replacement for both anterior and posterior applications. Designed to augment the base knowledge obtained from pre-clinical operative dentistry course and represent the majority of direct operative procedures that will be encountered following the removal of advanced carious lesions.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 820. Community Service 0.5 Units
Grading Basis: Pass/Fail
Description: This 3-year course provides the student dentist with the opportunity to participate in a wide range of service learning community activities. In so doing, it affords the student an opportunity to learn more about the community in which he or she is living and working, as well as to experience the responsibility of the health care professional in terms of community engagement. Successful educational outcomes in management of community dentistry are demonstrated by the new dentist's ability to self-assess and describe an active role in promoting oral health in the community.
Course Attribute(s): CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 824. Preclinical Treatment Planning 5 Units
Description: The Preclinical Treatment Planning course provides foundation knowledge in comprehensive treatment planning, prognosis, and informed consent. Patient assessment techniques are introduced that build on the foundation knowledge that students have obtained in previous didactic and preclinical courses. These techniques illustrate how to determine the patient's chief complaint, how to identify and manage urgent treatment needs, and provide a treatment environment that allows free communication between provider and patient. Techniques are introduced to: 1) analyze the results of diagnostic data collection in order to arrive at a definitive diagnosis; 2) utilize data from the assessment and diagnosis to develop a sequential plan of treatment, addressing urgency of treatment needs and acknowledgement of the patient's chief concerns; 3) develop a prognosis of treatment choices with a consideration of the patient's dental values and motivation based on patient assessment data such as caries risk and oral hygiene skills; and 4) provide an environment for the patient to provide informed consent. Methods are presented to illustrate to the patient the nature and severity of their disease, the causative factors leading to their disease, the alternatives to treatment, possible complications of treatment, and the risks and benefits of treatment choices.
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GDOM 830. Dental Clinical Pharmacology 2 Units
Prerequisite(s): BMSC 807.
Description: This course will present topics in dental clinical pharmacology and oral medicine with specific emphasis on antibiotics, analgesics, local anesthetics, anxiolytic, antifungal and antiviral drugs as well as the pharmacologic management of medically related disorders and conditions affecting the oral and maxillofacial region.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 831. Operative Dentistry III 0.5 Units
Description: Lecture series correlated with clinical experience obtained in the D3 year. Basic operative procedures are related to clinical treatment of patients. Clinical variations of basic operative procedures and advanced techniques are introduced. Literature in dental materials and operative dentistry are reviewed. New materials and treatment options that are being introduced into the field will also be discussed.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 832. Introduction to Practice Management 1 Unit
Description: This course presents basic business management concepts as applied to a dental practice. The content is tailored to prepare the student for his/her extramural rotation in which practice management is a component.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

GDOM 833. Clinical Treatment Planning I 3 Units
Description: Synthesis of treatment modalities for direct patient care with emphasis on collation of all pertinent facts. Patient management and case presentation techniques are utilized in a primary care setting.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
### GDOM 834. Clinical Operative Dentistry I

**Description:** Course provides experience in the operative dentistry clinic during the D3 year that enables the student to obtain clinical experience in providing operative dentistry treatment for clinical patients. Basic procedures mastered in the preclinical laboratory and auxiliary retention courses are practiced in a clinical environment. As students progress, clinical variations are introduced and more advanced operative procedures are mastered. Successful completion of required competency examinations necessitate some degree of speed and accuracy in treating clinical patients. No student will be allowed to graduate without proving his/her competence in operative dentistry. If the student fails to perform at an acceptable, competent level, he/she will receive the necessary remediation before being advancing in the clinical operative dentistry curriculum.

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### GDOM 835. Oral Medicine

**Description:** This course is designed to instruct students in developing clinically-applicable knowledge concerning the assessment and management of dental patients with medical disorders/diseases and medically compromised states that may necessitate modification of routine dental treatment protocols and procedures, or require special precautions in order to prevent or reduce the risk of complications associated with the dental treatment of these patients.

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<td>GDOM 835. Oral Medicine</td>
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### GDOM 840. Integrated Clinical Sciences I

**Description:** Integrated Clinical Sciences I and II courses introduce third-year dental students, and reinforces and deepens fourth-year dental students' skills and abilities with the respect, to the School of Dentistry's philosophy of evidence-based patient-centered care. Through an integrated and systematic curriculum that includes patient care management, standards of professionalism, case presentation and related activities, peer to peer interaction, self-assessment and skill development, students will be prepared as effective oral healthcare providers who utilize scientifically-based practices and patient-centered approaches. There will be a strong focus on active learning and critical thinking that promotes students' abilities to integrate their learning across multiple disciplinary areas, especially those related to foundation sciences. Students ongoing progress will be assessed using a variety of avenues that include classroom assessment techniques, journaling, and reporting about patient care progress resulting in students' ability to be more effective, reflective, and self-directed learners.

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<td>GDOM 840. Integrated Clinical Sciences I</td>
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### GDOM 841. D4 Senior Practice Management

**Term Typically Offered:** Fall Only

**Description:** This is the capstone practice management course for dental students. The course describes business principles and how they are applied in a typical general dental practice. Teams of students also operate a computer-simulated dental practice. Classroom activities support the concepts that govern the computer simulation and material in the text. The final summative assessment is the student successfully operating a computer simulation practice.

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### GDOM 842. Restorative Dentistry Review

**Grading Basis:** Pass/Fail

**Description:** This is an online assignment to prepare each of you for possible topics on the National Boards Dental Examination Part II. Please review the course syllabus before attempting the assignment. The 50-question exam will be posted in Blackboard under Assignments. Your progression through the questions will be tracked and you must complete them all to "Pass" this course. There will be an absolute deadline before which all questions must be answered, as access to the exam will close. This course is not only for NBDE Part II, but is also critical information that is necessary as you continue to progress through clinical operative dentistry.

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<td>GDOM 842. Restorative Dentistry Review</td>
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### GDOM 844. Clinical Treatment Planning II

**Description:** This course offers D4 students the opportunity to continue their experiences in treatment planning with their assigned comprehensive care patients. Patient management and case presentation techniques are utilized in a primary care setting. D4 students present their assessment of the patient's diagnostic data to their Group Manager, discussing evidence-based treatment options and appropriate specialty consultations. After obtaining any needed consultations, the D4 student presents the comprehensive treatment plan to the patient under the supervision of the Group Manager. Students formulate an individualized treatment plan with appropriate preventive measures, and refer patients to a dental specialist if treatment needs are beyond the scope of treatment for a general practitioner.

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### GDOM 845. Clinical Diagnosis

**Description:** This clinical course is designed to assist the student in becoming knowledgeable in oral diagnosis and oral medicine. Clinical Diagnosis in the Oral Medicine curriculum entails a four-semester ongoing clinical experience in principles of diagnosis, medicine and emergency care (immediate or urgent care) that is graded at the end of the second (spring) semester of the D4 year.

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### GDOM 846. Clinical Operative Dentistry II

**Description:** Course provides experience in the operative dentistry clinic during the D4 year that enables the student to obtain clinical experience in providing operative dentistry treatment for clinical patients. Basic procedures mastered in the preclinical laboratory and auxiliary retention courses are practiced in a clinical environment. As students progress, clinical variations are introduced and more advanced operative procedures are mastered. Successful completion of required competency examinations necessitate some degree of speed and accuracy in treating clinical patients. No student will be allowed to graduate without proving his/her competence in operative dentistry. If the student fails to perform at an acceptable, competent level, he/she will receive the necessary remediation before being advancing in the clinical operative dentistry curriculum.

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**GDOM 848. Clinical Extramural Experience**  
*4 Units*  
**Grading Basis:** Pass/Fail  
**Description:** Students in good academic standing as required for the ULSD clinic complete a four-week experience in dental sites throughout the Commonwealth of Kentucky and in other states. A variety of possible sites include rural and urban private practices, public and private clinics, hospital settings and prison. Besides performing clinical work, students are expected to describe practice management concepts and systems and to investigate the interrelationships of the health care system with the community. The instructional mode is Community-Based Learning (CBL).  
**Course Attribute(s):** CBL - This course includes Community-Based Learning (CBL). Students will engage in a community experience or project with an external partner in order to enhance understanding and application of academic content.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**GDOM 849. Ethical Issues in Dentistry**  
*1 Unit*  
**Description:** Both dental students and practicing health professionals are often called upon to make critical decisions which require discernment in the balancing potential harms and benefits of a particular treatment in the clinical setting. The aim of this course is to help prepare the student for practice by presenting both ethical issues that occur frequently in dentistry, and a set of bioethical principles commonly used in U.S. healthcare that provide a framework for analysis of the ethical complexities of patient care. Reasoning through these ethical issues creates familiarity with the principles, which are also endorsed by the ADA and the American College of Dentists, and provides students with guidance for dealing successfully with patients, peers, and society. Another goal of this course is to increase student awareness of the concepts of professionalism and social responsibility, and to assist the student with learning skills for providing care for a diverse population of patients.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**GDOM 855. Integrated Clinical Sciences II**  
*4 Units*  
**Description:** Integrated Clinical Sciences I and II courses introduces third-year dental students, and reinforces and deepens fourth-year dental students? skills and abilities with the respect, to the School of Dentistry’s philosophy of evidence-based patient-centered care. Through an integrated and systematic curriculum that includes patient care management, standards of professionalism, case presentation and related activities, peer to peer interaction, self-assessment and skill development, students will be prepared as effective oral healthcare providers who utilize scientifically-based practices and patient-centered approaches. There will be a strong focus on active learning and critical thinking that promotes students? abilities to integrate their learning across multiple disciplinary areas, especially those related to foundation sciences. Students? ongoing progress will be assessed using a variety of avenues that include classroom assessment techniques, journaling, and reporting about patient care progress resulting in students? ability to be more effective, reflective, and self-directed learners.

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**GDOM 876. Principles of Aesthetic Dentistry**  
*3 Units*  
**Description:** Principles of the clinical practice of comprehensive oral esthetic dentistry. Emphasis will be on esthetic diagnosis, photography, treatment planning, dental materials, ceramic restorations and procedures for anterior and posterior direct composite resin placement. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**GDOM 879. Introduction to Photography in Dentistry**  
*1 Unit*  
**Grading Basis:** Pass/Fail  
**Prerequisite(s):** 4th Year Course.  
**Description:** With the Bioinformatics becoming the tool of communication in the medical field, and with having the digital tools and knowing how to use it; sharing the information and obtaining consults should become very easy. For that reason this hands-on course was developed with the following outlines: This course is a combination of lecture/hands-on portions. Lectures will focus on covering the basics of dental photography and the multiple set ups, techniques, various standard views, photography of instruments, casts, X-rays and documents, and the different techniques to obtain valid photographs.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**GDOM 881. Advanced Occlusion and Restorative Concepts**  
*1 Unit*  
**Grading Basis:** Pass/Fail  
**Description:** Advanced occlusal concepts with an emphasis on restorative concerns will be a major focus of the class. The course will be a discussion led towards clinical usage and applications. Critical thinking, clinical analysis and group discussions will be moderated by the course director. The class will be kept to a small size for maximum effectiveness in a small group learning atmosphere.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

**GDOM 882. Preclinical Occlusion and TMD**  
*3 Units*  
**Term Typically Offered:** Fall Only  
**Description:** This course is designed to present the terminology and basic concepts in occlusion, mandibular movement, and TMJ disorders. Emphasis is on the etiology, examination, diagnosis, and treatment of occlusal abnormalities, temporomandibular joint disturbances, and neuromuscular dysfunction. Clinical experience in these areas is included.

For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)