OBG Obstetrics and Gynecology

OBG 815 FIRST-YEAR ELECTIVE, OBSTETRICS AND GYNECOLOGY. (1-3)
With the advice and approval of his or her faculty adviser, the first-year student may choose approved electives offered by the Department of Obstetrics and Gynecology. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the first-year curriculum. Pass-fail only. Prereq: Admission to first year, College of Medicine.

OBG 825 SECOND-YEAR ELECTIVE, OBSTETRICS AND GYNECOLOGY. (1-4)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Obstetrics and Gynecology. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of adviser.

OBG 831 OBSTETRICS AND GYNECOLOGY CLERKSHIP. (6)
During this clerkship, the student is expected to become knowledgeable concerning the physiology of reproduction and pathologic processes which may adversely affect the reproductive process. This is accomplished by intensive participation in the care of both outpatient and hospitalized patients on the obstetric and gynecologic services. The student is given the opportunity to examine and evaluate all patients admitted to the hospital as a member of the patient care team. During this period of time, concepts are developed and elaborated by means of conferences, seminars, and bedside teaching. Prereq: Admission to the third year, College of Medicine.

OBG 835 THIRD-YEAR ELECTIVE, OBSTETRICS AND GYNECOLOGY. (1-6)
Elective offerings in basic medical sciences and clinical medicine; will vary in length from 25-150 hours and will carry one to six hours credit. Electives will be chosen with the advice and approval of faculty adviser and Curriculum Committee. Prereq: Admission to the third year, College of Medicine.

OBG 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his or her knowledge and clinical competence. Prereq: Admission to the fourth-year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

Approved electives:
OBG 850 GYNECOLOGIC ONCOLOGY
OBG 851 OBSTETRICS AND GYNECOLOGY PRECEPTORSHIP
OBG 852 OBSTETRICS AND GYNECOLOGY INDEPENDENT STUDY
OBG 854 CLINICAL CLERKSHIP IN OBSTETRICS
OBG 861 OUTPATIENT OBSTETRICS AND GYNECOLOGY
OBG 862 ACTING INTERNSHIP IN REPRODUCIVE ENDOCRINOLOGY
OBG 863 MATERNAL-FETAL MEDICINE
OBG 890 OFF-SITE OBSTETRICS AND GYNECOLOGY

OBI Oral Biology

OBI 650 ORAL BIOLOGY FOR POSTDOCTORAL DENTAL STUDENTS. (4)
This seminar course provides a review of selected topics in the biological sciences. Emphasis is placed on the use of current literature for an in-depth study of those aspects of the subject particularly relevant to the practice of dentistry. Prereq: Admission to an advanced education program of the College of Dentistry or consent of instructor.

OBI 720 MICROBIAL STRUCTURE AND FUNCTION. (4)
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: Consent of instructor, BCH 501, BCH 502, and BIO 476G or equivalent. (Same as MI 720 and BIO 720.)

OBI 812 INTRODUCTION TO BIOCHEMISTRY AND NUTRITION. (3)
This is an introductory course in biochemistry and nutrition. Topics include the descriptive chemistry of carbohydrates, lipids, proteins, and nucleic acids; the nature of enzyme action, acid-base balance, caloric value of nutrients and water-and fat-soluble vitamins. Special emphasis is given to the topics of connective tissue, fluoride, dental caries and the biochemical principles of drug action. Lecture, 54 hours. Prereq: Admission to the College of Dentistry or consent of course director.

OBI 814 CELL FUNCTION. (3)
The intermediary metabolism of procaryotic and eucaryotic cells, relationships between anabolic and catabolic pathways, and cellular regulatory mechanisms operative within and between metabolic processes. Study includes nucleic acid and protein synthesis; metabolic control mechanisms; carbohydrate, lipid and amino acid metabolism; and bioenergetics. Information is related to current concepts of oral disease and its prevention. Lecture, 56 hours. Prereq: OBI 812 or consent of course director.

OBI 816 PRINCIPLES OF MICROBIOLOGY AND IMMUNOLOGY. (3)
This course is a two-part introduction to microbiology and immunology. Part I, Principles of Microbiology, contains basic microbial structure, function, taxonomy and genetics; principles of chemotherapy and drug resistance; and methods of disinfection and sterilization. Part II, Principles of Immunology, is an overview of mammalian host defenses followed by a detailed description of the molecular basis of the immune response. Lecture, 47 hours. Prereq: OBI 814 or consent of course director.

OBI 818 THE PHYSIOLOGY AND PHARMACOLOGY OF MAMMALIAN SYSTEMS I. (2)
This course presents the basic principles of drug action with respect to absorption, distribution, metabolism, and excretion. As an introduction to the organ systems, the physiological aspects of conducting and contracting tissues, connective tissues, lining and secretory systems, and other special tissues are discussed. The pharmacology of antimicrobial drugs also is presented. Lecture and self-instruction, 38 hours. Prereq: OBI 814 or consent of course director.

OBI 822 INFECTIOUS DISEASES. (3)
This course presents the biologic and clinical basis of infectious disease using an organ system approach. Infections of all major organ systems, including the oral cavity, are examined. Emphasis is placed on the role of the host in controlling the initiation and progression of infectious disease. Lecture, 56 hours. Prereq: OBI 816 or consent of course director.

OBI 824 THE PHYSIOLOGY AND PHARMACOLOGY OF MAMMALIAN SYSTEMS II. (4)
This course presents the physiology and pharmacology of mammalian nervous and respiratory systems, as relevant to the practice of dentistry. Special emphasis is placed on classes of therapeutic agents which act on these systems, including local anesthetics, analgesics, sedatives and hypnotics, and drugs used to treat respiratory disorders. Interaction of basic physiology and pharmacology with clinical science is stressed. Lecture/self-instruction, 70 hours. Prereq: OBI 818 or consent of course director.

OBI 826 THE PHYSIOLOGY AND PHARMACOLOGY OF MAMMALIAN SYSTEMS III. (4)
This course presents the physiology and pharmacology of the dental hard tissues and the cardiovascular, endocrine, reproductive, renal and gastrointestinal systems. Emphasis is on aspects particularly relevant to dentistry, e.g., dentin sensitivity, cardiovascular and endocrine diseases, calcium homeostasis, temperature regulation, metabolism, and effects of stress on physiological processes. Therapeutic agents which act on these systems are presented. The interaction of physiology and pharmacology with clinical science is stressed. Lecture/self-instruction, 64 hours. Prereq: OBI 824 or consent of course director.

OBI 850 ORAL BIOLOGY ELECTIVE. (1-10)
Elective courses offered by the Department of Oral Biology provide opportunities for further study of or experience in various aspects of oral biology. Topics may include seminars in new developments in the basic sciences, basic research in the laboratory, and the development of a particular biological topic of mutual interest to the student and faculty member. Hours variable, ranging from a minimum of 16 hours lecture/discussion to a maximum of 10 weeks of laboratory research. 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.
ODM Oral Diagnosis and Oral Medicine

ODM 820 ORAL RADIOLOGY. (1)
This course is designed to achieve proficiency in the interpretation of intraoral and extraoral dental radiographs. Also pedodontic, panoramic and occlusal techniques and interpretations are reviewed. Principles of image formation, radiation biology, and special radiographic procedures for the dentist are included. Lecture/space, 29 hours. Prereq: CDS 811 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, 30 hours. Prereq: CDS 811; Coreq: CDS 824.

ODM 830 MANAGEMENT OF THE MEDICALLY COMPROMISED DENTAL PATIENT. (1)
This course covers a variety of common medical disorders which may be encountered in dental patients. General descriptions, pathophysiology, signs and symptoms, and current medical treatment for each disorder are included as well as detailed management guidelines for dental care. Lecture/self instruction, 25 hours. Prereq: OPT 820 or consent of 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, 40 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, 40 hours. Prereq: ODM 830 and ODM 831.

ODM 850 ORAL DIAGNOSIS ELECTIVE. (1-10)
Elective courses offered by the Department of Oral Diagnosis and Oral Medicine provide opportunities for further study of or experience in various aspects of oral diagnosis and medicine. Topics may include extraradical radiology, advanced X-ray technique, oral medicine, and clinical laboratory experience. 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.

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 student 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.

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.

OPH Ophthalmology

OPH 815 FIRST-YEAR ELECTIVE, OPHTHALMOLOGY. (1-3)
With the advice and approval of his or her faculty adviser, the first-year student may choose approved electives offered by the Department of Ophthalmology. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/ or complements required course work in the first-year curriculum. Pass-fail only. Prereq: Admission to first year, College of Medicine.

OPH 825 SECOND-YEAR ELECTIVE, OPHTHALMOLOGY. (1-4)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Ophthalmology. The intent is to provide the student an opportunity for exploration and study in an area which supplements and or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of adviser.

OPH 835 THIRD-YEAR ELECTIVE, OPHTHALMOLOGY. (1-6)
Elective offerings in basic medical sciences and clinical medicine; will vary in length from 25-150 hours and will carry one to six hours credit. Electives will be chosen with the advice and approval of faculty advisor and Curriculum Committee. Prereq: Admission to the third year, College of Medicine.
**Approved electives:**

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tr>
<td>OPH 850</td>
<td>CLINICAL CLERKSHIP IN OPHTHALMOLOGY</td>
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<tr>
<td>OPH 852</td>
<td>ADVANCED CLINICAL CLERKSHIP IN OPHTHALMOLOGY</td>
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<tr>
<td>OPH 890</td>
<td>OPHTHALMOLOGY OFF-SITE</td>
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**OPT 651 GRADUATE ORAL PATHOLOGY.** (3)  
Seminar course in advanced oral pathology. Prereq: Dental degree and enrollment in a graduate program of the College of Dentistry, or consent of instructor.

**OPT 820 GENERAL PATHOLOGY FOR DENTAL STUDENTS.** (2)  
This is a basic course covering the principles of general pathology and the common disorders affecting the major organ systems. Emphasis is placed on cell damage, inflammation, neoplasia, immunology and systemic diseases that affect dental patient management. Lecture, 43 hours. Prereq: Enrollment in the College of Dentistry, ANA 530 and ANA 532; or consent of course director.

**OPT 830 ORAL PATHOLOGY I.** (2)  
This is a comprehensive lecture course on oral and paroral 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. Prereq: OPT 820 or consent of course director.

**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, 17 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 oral 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: Minimum year in dental school and any course prerequisites will be announced for each topic.

**OR Operations Research**

**OR 515 MATHEMATICAL PROGRAMMING AND EXTENSIONS.** (3)  
Mathematical and computational aspects of linear programming, large scale structures, quadratic programming, complementary pivoting, introduction to nonlinear programming. Applications to engineering and economics. Additional topics selected in geometric programming, stochastic programming. Prereq: A course in linear algebra or consent of instructor. (Same as MA/STA 515.)

**OR 524 PROBABILITY.** (3)  
Sample space, random variables, distribution functions, conditional probability and independence, expectation, combinatorial analysis, generating functions, convergence of random variables, characteristic functions, laws of large numbers, central limit theorem and its applications. Prereq: MA 432G or 471G or consent of instructor. (Same as STA 524.)

**OR 525 INTRODUCTORY STATISTICAL INFERENCE.** (3)  
Simple random sampling, statistics and their sampling distributions, sampling distributions for normal populations; concepts of loss and risk functions. Bayes and minimax inference procedures; point and interval estimation; hypothesis testing; introduction to nonparametric tests; regression and correlation. Prereq: STA 320 or STA 524 or STA 424G. (Same as STA 525.)

**OR 563 SIMULATION OF MINE PRODUCTION SYSTEMS.** (3)  
Discrete event simulation and its application to performance analysis of mine production systems. Topics include concepts for characterizing production systems, approaches to structuring simulation models, instruction in a simulation language, and techniques for comparing alternative system designs and control strategies. Applications are made in modeling mine face operations, conveyor networks, and discrete vehicle transport systems. Prereq: CS 221, STA 381 and MNG 431. (Same as MNG 563.)

**OR 616 NUMERICAL TECHNIQUES FOR NONLINEAR OPTIMIZATION.** (3)  
Unconstrained optimization, Kuhn-Tucker conditions for nonlinear programs (constrained optimization). Solutions procedures: methods of feasible directions, penalty methods, approximation methods, the method of generalized Lagrangians. Discrete optimal control (dynamic formulation). Solutions methods for control problems: decomposition and structured problems. Prereq: MA 515 or consent of instructor. (Same as MA 616.)

**OPT Oral Pathology**

**OPT 617 MARKOVIAN DECISION PROBLEMS.** (3)  
Control of discrete-time Markov processes by dynamic programming inventory theory. Computational approaches to control of Markovian chains. State space methods: modeling of engineering and economic systems by linear stochastic difference equations. The discrete-time matrix Riccati equations, Kalman filtering. Optimal control of linear stochastic difference equations with complete or incomplete state information and with quadratic cost criterion. Prereq: STA 624. (Same as MA 617.)

**OPT 618 COMBINATORICS AND NETWORK.** (3)  
Graphs, networks, min flow-max cut theorem and applications; transportation problems, shortest route algorithms, critical path analysis, multi-commodity networks, covering and packing problems; integer programming, branch-and-bounding techniques, cutting plane algorithms, computational complexity. Prereq: MA 515; can be taken concurrently with MA 515. (Same as MA 618.)

**OPT 619 PROBLEMS SEMINAR IN OPERATIONS RESEARCH.** (3)  
In this course the student is exposed to the art of applying the tools of operations research to “real world” problems. The seminar is generally conducted by a group of faculty members from the various disciplines to which operations research is applicable. Prereq: MA 617 and STA 525 or consent of instructor. (Same as EE/STA/BA 619 and MA 613.)

**OPT 624 APPLIED STOCHASTIC PROCESSES.** (3)  
Definition and classification of stochastic processes, renewal theory and applications, Markov chains, continuous time Markov chains, queuing theory, epidemic processes, Gaussian processes. Prereq: STA 524 or consent of instructor. (Same as STA 624.)

**ORT Orthodontics**

**ORT 610 CRANIO-FACIAL FORM.** (3)  
Applied radiographic anatomy for graduate students in dentistry. Prereq: Admission to graduate dental programs; D.D.S. or M.D.D. degree.

**ORT 620 ORAL-PHYRNGEAL 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 M.D.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. (1)
This course emphasizes the principles of data collection and diagnosis for planning comprehensive orthodontic treatment. Lecture, 24 hours. May be repeated to a maximum of two credits. 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. (3)
In this technique course, management of orthodontic apparatuses, sequence of treatment, and mechanics in comprehensive orthodontic therapy are covered. Laboratory, 100 hours. May be repeated to a maximum of six credits. 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 of 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 data base. Lecture, 12 hours; laboratory, 19 hours; seminar, 18 hours; clinic, four hours. Prereq: Second year standing in College of Dentistry, CDS 812.

ORT 830 ORTHODONTICS II. (1)
This course concerns the teaching of preclinical 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 in interceptive orthodontics and adjunctive orthodontic treatment in a general practice setting. Lecture, 14 hours; laboratory, 28 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, 50 hours. Prereq: ORT 820 and consent of course director.

ORT 850 ORTHODONTIC ELECTIVE. (1-10)
Elective courses offered by the Department of Orthodontics provide opportunities for further study of or experience in various aspects of orthodontics. Topics may include principles of comprehensive orthodontic treatment, types of orthodontic appliances, and methods of correcting facial skeletal problems. 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.

OSG 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. (1)
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. Clinic, 48 hours. 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.

OSG 850 ORAL SURGERY ELECTIVE. (1-10)
Elective courses offered by the Department of Oral Surgery provide opportunities for further study of or experience in various aspects of oral surgery. Topics may include hospitalized and ambulatory patient management, emergency care, operating room experience, pain and anxiety control, and surgical technique. 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.