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<td>This chapter is a compilation of the courses if instruction offered by the University of California, San Francisco. Courses are arranged in numerical order under alphabetically listed subject headings. As these headings do not in every case correspond to a department, the responsible department or instructional unit is indicated at the end of each course description. Abbreviations used for these departments or instructional units are spelled out in the list below.</td>
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<td>Inquiries about individual courses should be addressed to the indicated department or instructional unit for information that is not included here, or to the respective Schools of the University of California, School of Medicine. These bulletins, available from the respective Schools, may be forwarded to the University of California, School of Medicine.</td>
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| Additional courses are offered by the School of Medicine under programs of Continuing Education (see "Admissions" section). |

| Mills Memorial Hospital, San Francisco, CA |
| Mt. Zion Hospital and Medical Center, San Francisco, CA |
| NAF | Naval Regional Medical Center, Oakland, CA |
| NS | Napa State Hospital, Imola, CA |
| OC | O'Connell Hospital, San Jose, CA |
| P | Peralta Hospital, Oakland, CA |
| PMC | Peninsula Medical Center and Medical College, San Francisco, CA |
| RDMC | Ralph K. Davies Medical Center, San Francisco, CA |
| RIA | Rancho Los Amigos Hospital, Downey, CA |
| S | Stanford University Medical Center, Palo Alto, CA |
| SACC | San Francisco Valley Medical Center, San Jose, CA |
| SGH | San Francisco General Hospital Medical Center, San Francisco, CA |
| SGH | San Francisco General Hospital Medical Center, San Francisco, CA |
| SMH | Sierra Nevada General Hospital, Fort Ord, CA |
| SJ | San Joaquin General Hospital, Stockton, CA |
| SM | Samuel Merritt Hospital, Oakland, CA |
| SMC | Sierra Medical Center, Daly City (formerly Mary's Help Hospital), San Jose, CA |
| SMS | Santa Rosa Memorial Hospital, Santa Rosa, CA |
| KFSF | Stanford University Medical Center, San Francisco, CA |
| STAG | St. Agnes Hospital and Medical Center, Fresno, CA |
| STF | St. Francis Memorial Hospital, San Francisco, CA |
| STL | St. Luke's Hospital, San Jose, CA |
| STM | St. Mary's Hospital and Medical Center, San Francisco, CA |
100C. Systemic Regional & Devel Anat. (3) F,S,W, L 3 hrs, Lab 6 hrs. Sutherland and Staff

The gross structure of the human body is studied by means of dissection, demonstration, X-ray, surface, developmental, and cross-sectional anatomy with special reference to the functional aspects of the structures examined. ANATOMY

100D. Systemic Regional Devel Anat. (4) W Lecture 2 hrs. Lab 6 hrs. Sutherland and Staff

The gross structure of the human body is studied by means of dissection, demonstration, X-ray, surface, developmental, and cross-sectional anatomy with special reference to the functional aspects of the structures examined. ANATOMY

110C. Histology (3) F, W Lecture 2 hrs. Lab 6 hrs. J. Elias and Staff

A study of the microscopic structure of the tissues and organs of the human body as studied by light microscopy, demonstration, and microscopie slides. Functional aspects of the tissues are emphasized. Intended for freshmen in the School of Pharmacy. ANATOMY

116D. Gross Anatomy, (3) F, Sp Lecture 2 hrs. Lab 5 hrs. Sutherland and Staff

A study of the macroscopic structure of the human body by means of lectures and dissections. Functional aspects of the structures are emphasized. Intended for freshmen in the School of Pharmacy. ANATOMY


Gross anatomy of the trunk, upper extremity, and the head and neck is studied by laboratory dissection and demonstration. The objective of this course is to develop an understanding of anatomy. Emphasis is placed on the functions of the structures and systems examined. ORAL MED

118. General Histology. (3) F Lecture 2 hours. Lab 3 hrs. R. H. Reamer

The microscopic structure of tissues and organs of the body is studied in relation to their function and histologic considerations. ANATOMY

119. Neurosurgical Anatomy & Regional Anatomy. (16 per semester) F, S, F, W. Prerequisite: Consent of instructor is required for graduate students. Lecture 5 hrs. Lab 5 hrs. H. Balshoy, Styrke and Staff

The structure and function of the mammalian nervous system studied in lectures, conferences, demonstrations, and laboratories, with emphasis on the human nervous system and its organization. Intended for students in the School of Medicine and as an introduction course for graduate students. ANATOMY


The gross structure of the trunk and upper extremity are studied through dissection and demonstration. Consideration is given to the functional significance of the structures studied. ANATOMY

156B. Human Anatomy. Head, Neck & CNS. (4) W Lecture 2 hrs. Lab 5 hrs. Sutherland and Staff

The gross structure of the head, neck, and central nervous system are studied through dissection and demonstration. Consideration is given to the functional significance and clinical application of the structures studied. ORAL MED

170. Advanced Head & Neck Anatomy. (1.5) Sp, Prerequisite: General histology, gross anatomy of the head and neck, and oral histology lecture 1 hour. Lab 6.5 hours. R.D. Coleman

Designed for postgraduate specialty certificated students in the clinical specialty training programs in the School of Dentistry. Seminars on anatomy and demonstration of head and neck anatomy are correlated with their application to clinical dentistry. ORAL MED

170.01. Problem Areas in Clin Anatomy. (1.5) F, W, Sp, Prerequisite: Anatomy 100 or concurrent enrollment. First-year standing in School of Medicine. Lindner

A problem-oriented approach to the various components of anatomy such as hernia, thyroid, peritoneum, and adjacent relationship. ANATOMY

170.02. Survey of Congenital Defects. (2) W, Prerequisite: Gross anatomy and consent of instructor. Lecture 2 hours. Monteleone and J. Gilbert

This elective course is designed to provide the student with information on congenital human congenital defects. The effects of environmental and genetic factors are discussed. ANATOMY

170.05. Abnormal Gross/Nerve Neuropathy. (2) Sp, Prerequisite: Anatomy 103 or concurrent enrollment. Lecture 1 hour. Lab 5.5 hours. deGroot

A laboratory-oriented course in the abnormal gross and nerve neuropathy. Discussion of case histories is correlated with basic neuroradiology and neuropharmacology. ANATOMY

170.05. Abnormal Gross/Nerve Neuropathy. (2) Prerequisite: Anatomy 103 or concurrent enrollment. Medical student standing. Abnormal changes in gross/neuropathology will be discussed in terms of clinical corre- lation and neurophysiologic diagnostic methods. ANATOMY

170.05. Regional and Topographic Anatomy. (1.5) W, Prerequisite: Second- and third-year medical students. Lecture 1 hour.

Living clinical anatomy is stressed; the dia- gnostic, surgical, and pathological aspects of the cranial and abdominal contents. Clinical congenital anomalies are discussed in detail regarding their relationship to clinical medicine. ANATOMY

170.07. Language of Anatomy. (1.5) F, Sp, W, Prerequisite: Consent of instructor and Anatomy 100. Lecture 1 hour. A three-component elective focusing on the nomenclature of the anatomical nomenclature, and how medical students learn names and articulate their effects. ANATOMY


Course covers anatomy as it relates to its systematic and periodontal applications. ANATOMY

172. Clin Anat through Cross-Section. (2) Sp, Prerequisite: Anatomy 100. Not open to first-year medical students. Lecture 1 hr. Lab 1 hour. deGroot

Clinically oriented survey of human anatomy and its measurement. Emphasis on the sections of the body. Course provides an anat- omical background for understanding compared tomograms. Students will prepare and keep as anatomy atlas usable in radiologic diagnosis. ANATOMY

175. Congenital Abnormalities. (2) W, Prerequisite: Anatomy 100 or equivalent and consent of instructor. Seminar 2 hours. J. Elias

Weekly seminars on experimental embryology, as a tool to understanding the nature of congenital abnormalities in man.

180. Supervised Study. (1.5-5) F, S, W, Prerequisite: Library research and directed reading. Supervision of a member of the faculty with the approval of the chairperson of the department. ANATOMY

199. Laboratory Project. (1.5-5) F, S, W, Prerequisite: Consent of instructor. Lecture 2 hours. W. Aronson

A laboratory research project under direc- tion of a member of the faculty with the ap- proval of the department. ANATOMY

201. Refletif Effects on Genes & Clutter. (2) W, Prerequisite: Consent of instructor. Lecture 2 hours. S. Wolf

Concepts and mathematics of biological theories related to damage of genetic apparatus. Bio- physical and biological studies on induction of intragenic and intergenetic mutations that give insight into the structure of chromosomes and the relationship of genes to other mutational processes. ANATOMY
This intermediate level course considers the more common and useful distribution free methods from an applications standpoint. Topics include non-parametric tests for analysis of variance (ANOVA), the chi-square test, and the correlation coefficient. Pre-requisite: BIOL 105 or equivalent. Lecture 3 hours. Lab 1 201. Regression Analysis. (5-4) L. Hofman and Staff. Course covers the use of multivariable regression techniques, focusing on the choice of regression techniques and interpretation of the results rather than on mathematical development of the techniques. Design of experiments is stressed with appropriate emphasis on power analysis. Pre-requisite: BIOL 105 or equivalent. Lecture 3 hours. 210. Survival Analysis. (3-2) L. Hofman and Staff. Course provides a review of survival analysis methods including Kaplan-Meier estimation, the log-rank test, and the Cox proportional hazards model. Pre-requisite: BIOL 105 or equivalent. Lecture 3 hours.

A continuation of the study of compounds of carbon including some aromatic, hydrocarbon, and heterocyclic compounds. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 16. Physical Chemistry Laboratory. (2) L. T. James and Staff. Laboratory experiments in organic chemistry. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 17. Physical Chemistry Laboratory. (2) L. T. James and Staff. Laboratory experiments in inorganic chemistry. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 18. Physical Chemistry Laboratory. (2) L. T. James and Staff. Laboratory experiments in physical chemistry. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours.

A study of the reactions of organic compounds with applications of spectrometry and NMR. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 19. Spectroscopy. (2) L. T. James and Staff. Laboratory experiments in spectroscopy. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 20. Advanced Organic Chemistry. (3) L. T. James and Staff. Laboratory experiments in physical chemistry. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours.

A study of the detailed dependence of chemical reactions on detection. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 21. Physical Chemistry Laboratory. (2) L. T. James and Staff. Laboratory experiments in physical chemistry. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 22. Physical Chemistry Laboratory. (2) L. T. James and Staff. Laboratory experiments in physical chemistry. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 23. Physical Chemistry Laboratory. (2) L. T. James and Staff. Laboratory experiments in physical chemistry. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours.

A study of the reactions of organic compounds with applications of spectrometry and NMR. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 19. Spectroscopy. (2) L. T. James and Staff. Laboratory experiments in spectroscopy. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours. 20. Advanced Organic Chemistry. (3) L. T. James and Staff. Laboratory experiments in physical chemistry. Pre-requisite: CHEM 115 or equivalent. Lecture 3 hours.

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149.020. Ambulatory Clinic/Clinic. (C 5 and M2B) (6.6) W. Sp. Preceptor: Clinical Pharmacy 149.02A. Shimomura and Staff - Guest of Clinical Pharmacy 149.02A. CL PHARM

150.10. Pharmacy Services. (C 3) W. Sp. Preceptor: Clinical Pharmacy 135. Third year standing or higher. Lecture 1 hour. Course and Special project of 6 hours. CL PHARM

Orientation to inpatient and outpatient pharmacy services. Projects in design, justification and implementation of distribution systems such as unit dose, intravenous admixture services, computer applications, will be the major grading criteria. CL PHARM

150.20. Drug-Induced Disease Problems. (C 3) W. Sp. Preceptor: Practice Pharmacy 135. Third year standing or higher. Lecture 2 hours. Special project 4 hours. CL PHARM

Toxicology and drug-related diseases may be studied with major emphasis on their sig- nificance, detection, nature of symptoms, a review of collection and analytic methods of adverse drug reaction information and evaluation of literature will be considered. Special projects will be assigned. CL PHARM

150.30. Infectious Diseases Topics. (C 3) W. Sp. Preceptor: Clinical Pharmacy 135. 131 and 132. Consent of instructor. CL PHARM

Course provides students with intensive, systematic approaches to management of pa- tients with infectious diseases. Emphasis is on controversies in management. Infectious diseases in special situations also included. CL PHARM

155.50. Oncology Seminar. (2) W. Sp. Preceptor: Clinical Pharmacy 135. Consent of instructor. Seminar 2 hours. CL PHARM

Discussion in detail of topics in oncology that focus upon the pharmacologic manage- ment of various neoplastic disorders or can- cer and their problems. CL PHARM


Course provides students with an overview of management and increase their awareness of major components of pharmacy services administration. CL PHARM


Group studies of selected topics in clinical pharmacy CL PHARM

170.01. Inpatient Pediatrics -SPG (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Reale

Students participate in the activities of the Inpatient Pediatric Service. Activities include routine review of patients' charts, monitoring response to drug therapy, attending inpatient conferences, seminars and rounds and participation in selected therapeutic consultations CL PHARM


Students participate in activities of the Renal Medicine Service, including patient monitoring, attendance at conferences, seminars and rounds; and application of pharmacokinetics to drug therapy. Where appro- priate, students prepare detailed consultations regarding individual patient therapy. CL PHARM

170.03. Infectious Diseases -C (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. B. Baker

Students review Infectious Disease Service therapeutic consultations and evaluate patients' response to recommended therapy based on following data obtained by the physical examination, laboratory, and other diagnostic methods. Students attend conferences, seminars, rounds and rounds. Special projects assigned. CL PHARM


Students participate in the clinical service of the Clinical Pharmacokinetics Laboratory. Course includes reviewing drug levels, selecting patients to be monitored, presentation of reports, attendance at seminars and conferences, and experience in the leading one. CL PHARM


Students participate with pediatric staff dealing with problems frequently encountered in the pediatric wards, including admission to those which affect children from low income, overcrowded and substandard conditions. Activities include rounds, conferences and participation in special projects. CL PHARM

170.22. Infectious Diseases -AM (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Kimble

Students in an interdisciplinary setting, assess clinical problems relating to the selection, pharmacodynamics and therapeutics of drugs and drug product activities. Activities include participation in inpatient conferences, collabora- tion on selected consultations, and review and evaluation of drug literature. CL PHARM


Students observe, interview, evaluate drug therapy; interview mental patients with psychiatric disorders, accompany unit physicians to court, attend interdisciplinary team meetings and prepare detailedc cones re- specific comments on drug therapy. CL PHARM

175.01. Inpatient Psychiatry -SPG (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Dong

Students participate in the activities of the Inpatient Psychiatric Service. Students will be responsible for drug surveillance, drug therapy, monitoring of drug therapies and consultation with the patient's primary care provider. A minimum of two patient-specific drug consultations is required. CL PHARM

175.37. Inpatient Psychiatry -C (1-8) F. W. Sp Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. M. Kimble, Bufford, Liebenski, Stefani

Students participate in the activities of the Inpatient Acute Care Psychiatric Ward. Activities include monitoring and interviewing patients, attendance at conferences, seminars, rounds and special projects. On call every two weeks. CL PHARM

175.40. Thyroid -CL (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. M. Kimble

Students participate in the activities of the Thyroid Clinic, including patient monitoring, attendance at conferences and seminars. Work under supervision of the clinical pharmacists in the management of selected patients. CL PHARM


Students participate in the activities of the Dermatology Clinic. Students take part in education and instruction in the proper medication usage. They participate in conferences, seminars, rounds and provide pharmacotherapeutic consultations where appro- priate. Special projects assigned. CL PHARM

175.42. OB-GYN -CL (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. M. Kimble, McCord, Kooser

Experience in various subspecialty areas in the Obstetrics and Gynecology Clinics. Stu- dents will attend at least one special presentation and students in the clinic, participating in conferences and seminars. Prepare detailed consultations regarding drug therapy where appropriate. CL PHARM

175.43. Diabetes -CL (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. M. Kimble

Students participate in the activities of the Diabetes Clinic. Experience in patient care, patient education, drug therapy consultation and management, and patient consultation. As an option of student, a special project may be included in addition to regular clinic activities. CL PHARM

175.44. Tropical Medicine -CL (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. M. Kimble

Students participate in the activities of the Tropical Medicine Clinic. Students are involved on patient interviews and rational treatment of parasitic diseases. Special project is optional. CL PHARM

175.45. Anticoagulation -CL (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. M. Kimble

Students participate in the activities of the Anticoagulation Clinic. Special project is re- quired, the subject of which shall be chosen by the student, with the consent of the preceptor. CL PHARM

175.46. Hematology/Oncology -CL (1-8) F. W. Sp. Preceptor: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Ignoffo
Students participate in the services provided by the clinic, including receiving internal and external funding, and becoming a part of the clinic team. This requires them to follow the clinic’s policies and procedures as outlined in the clinic’s code of conduct. The clinic is open to incoming and prospective students, as well as to the general public. In order to be eligible for participation, students must submit an application to the clinic. The application must include a completed registration form, a letter of recommendation, and a current resume. The application is reviewed by a committee of clinic staff, and final approval is granted by the clinic director. Participation in the clinic is limited to students who meet the eligibility criteria and who are available to work during the clinic’s scheduled hours. The clinic provides a range of services, including internal medicine, surgery, obstetrics and gynecology, and pediatrics. Services are provided by a team of licensed practitioners, including physicians, nurses, and physician assistants. The clinic is committed to providing high-quality care to all patients, regardless of their ability to pay. The clinic accepts a variety of payment options, including insurance, self-pay, and sliding scale fees. The clinic is located at 123 Main Street, Suite 200, in the city of [City], state of [State]. For more information, please visit the clinic’s website at [Website].
187.05. Psychiatry/G-U (1.8) W. Sp. Pre-requisite: Fourth-year standing and consent of instructor. Shimomura, S. Gardner Students observe and participate in activities of psychiatric and developmental staff in the hospital. Emphasis is on diagnosis and management of neurological and genetic diseases such as seizure disorders and encephalitis. CL PHARM 187.10. Long-Term Care Facilities (1.8) W. Sp. Pre-requisite: Clinical Pharmacy 159, 151 and 152. Consent of instructor. Shimomura, V. Young Students observe and participate in activities of care in general, post-operative and chronic care facilities. CL PHARM 187.07. Ophthalmology/G-U (1.8) W. Sp. Pre-requisite: Clinical Pharmacy 159 and consent of instructor. Shimomura, S. Gardner Students participate in activities of the Rules eye team, which includes patients' monitoring, attendance at conferences and seminars, and screening of ocular medications. Students work under the supervision of the pharmacist preceptor in learning the management of diabetes, disorders of the eye, CL PHARM 187.08. Emergency Room/G-U (1.8) W. Sp. Pre-requisite: Clinical Pharmacy 150, 151 and 152. Consent of instructor. Shimomura, R. Thomas Students participate in activities of emergent care in the hospital and the role of the pharmacists in this setting. Emphasis is on managing emergency conditions such as strep throat, fractures, broken bones, burns, trauma, and cardiac arrhythmias. CL PHARM 187.09. Fairview State Hospital Claypk (1.8) W. Sp. Pre-requisite: Clinical Pharmacy 150, 151 and 152. Consent of instructor. Shimomura, S. Gardner Students observe and participate in activities of inpatient admission service. CL PHARM 150, 151 and 152. Consent of instructor. Shimomura, S. Gardner Students observe and participate in monitoring geriatric patients in several long-term care facilities. Students will gain appreciation of the role of the consultant pharmacist and learn how to adjust drug therapy and dosages for geriatric patients. CL PHARM 187.11. Medicine at La Habra Com Hosp (1.8) W. Sp. Pre-requisite: Clinical Pharmacy 150, 151 and 152. Consent of instructor. Shimomura, V. YoungThis program is designed to allow students to participate in rounds with clinical pharmacists. They are involved in monitoring TIPS solutions, screening patients with positive culture results to assure appropriate antiinfective selection and dosage, adjusting serum levels of selected agents. CL PHARM 187.80. Drug Information/G-U (1.8) W. Sp. Pre-requisite: Fourth-year standing and consent of instructor. Shimomura, D. Swiate, Schwedler This course will provide the opportunity to develop skills required in a drug information service which includes organization and retrieval of drug information, critical drug literature evaluation, and effective verbal and written communication. CL PHARM 187.81. IV Additives/G-U (1.8) W. Sp. Pre-requisite: Fourth-year standing and consent of instructor. Shimomura, V. Young Students participate in activities of an intravenous additive service in a large university teaching hospital. Students will learn about aseptic technique, compatibility and stability of drugs in intravenous solution, total parenteral nutrition, intravenous pumps, home hyperalimentation and piggy-bags. CL PHARM 187.82. Drug Information/G-U (1.8) W. Sp. Pre-requisite: Fourth-year standing and consent of instructor. Shimomura, V. Young An on-line experience in a drug information center serving a large multidisciplinary teaching hospital. Through a series of experience modules, in addition to day-to-day experiences received by the center, students will be expected to demonstrate competence in drug literature evaluation and drug information retrieval skills. CL PHARM 187.83. IV Additives/G-U (1.8) W. Sp. Pre-requisite: Fourth-year standing and consent of instructor. Shimomura, Hazlet, Casselman Clinicians is a program that provides an opportunity for students to develop and use skills relating to the teaching of a general population of patients. The students will make routine case presentations regarding patients receiving different types of intravenous therapy, including parental nutrition. CL PHARM 189. Supervised Study (1.5) F. W. Sp. Staff Library research and directed reading under supervision of a member of the department in the approval of the chairperson of the department. CL PHARM 450. Pharmacoeconomics/Clinical Work (8-12) W. Sp. Pre-requisite: Resident standing. This course is an introduction to the pharmacoeconomics of drug use and becomes fourth-year standing and consent of instructor. Hernandez, Felix, Best and Staff Residents provide pharmacy service to patients in the wards and outpatient clinics including taking drug use histories, providing education and counseling, and monitoring medication profiles, providing teaching and discharge education, and related activities. In addition, there are ad- ministrative and teaching responsibilities. CL PHARM 451. Drug Information. (5) Su, F. W. Sp. Pre-requisite: Fourth-year standing and consent of instructor. Herlind, Mart, Kayser Residents provide drug information on pharmacologic and therapeutic reports. Activities include literature searches, preparing reports, and communication services, and teaching and administrative responsibilities involving the Drug Information Analysis Service. CL PHARM 452. Administration. (5) Su, F. W. Sp. Pre-requisite: Resident standing and approval of program director. Herlind, Best and Staff Residents are responsible for carrying out assignments related to the administration of a modern hospital pharmacy using automation, including purchase of supplies, supervision and development of staff, program planning and related administrative assignments. CL PHARM 453. Research. (1-5) Su, F. W. Sp. Pre-requisite: Resident standing and approval of program director. Herlind, Best and Staff Research is an opportunity for students to work with preceptor family members on an individual basis. CL PHARM Community Dairyvinity 168. Community Health Methods. (2) F. Lecture 1 hour. Lab 3 hours. Pollick Dental hygiene student works in the North Caucasian pediatric clinic. Students are assigned to areas school where oral hygiene care is provided. Home visits will also be made. GEN DENT Craniofacial Anomalies 171. Diagnosis & Treatment. (2) F. W. Sp. Lecture 1 hour. Lab 3 hours. Chiocri, Vargervik Diagnostic, preventive methods, corrective methods relative to patients with congenital malformations of the orofacial region are discussed. DR DENT 175B-C. Abnormal Facial Growth. (2-2) W. Sp. Seminar 2 hours. Vargervik Patients with abnormal facial malformation. Emphasis is on the interchangeability of morphology and physiology. GI DENT 186.01. Abnormal Orofacial Development. (1) F. W. Sp. Pre-requisite: Fourth-year standing or consent of instructor. Seminar and clinic 3 hours. Chiocri, Vargervik The pathogenesis of oro-facial deformations, dental malocclusion, and speech disorders associated with congenital malformation is discussed. The clinical diagnosis and corrective treatment methods is given in clinics. GI DENT 188. Neuromuscular Function. (2) F. W. Sp. Pre-requisite: Physiology Lecture 2 hours. Chiocri, Miller Course emphasizes the importance of sensory motor pathways to mandibular position and tongue posture. The use of facial and mandibular muscles is taught as related to the prevention and the preparation of the neuromuscular effects and adaptation to oral respiration are emphasized. GI DENT Dental Health Education 150A-B. Intro to Dental Health Educa- tion. (0.2-0.2) F. W. Lecture 2 hours. Hannebrink An introduction to theories of learning and educational methodology as applied to clinical dental hygiene. Development and implementation of dental hygiene education programs for dental patients are emphasized. PERIODONTIC 150A-B. Community Dental Health Educ. (0.2-0.2) F. W. Pre-requisite: Dental Education 150A, Lecture 2 hours. Francisco Exploration of alternative, non-clinical roles for dental hygienists in the areas of patient education, health education, health education program planning, implementation, evaluation, and financing theories. Students are given the opportunity to develop program planning and evaluation skills with selected community health agencies and institutions. 161B. Curriculum Theory & Design. (2) W. Sp. Pre-requisite: Dental Education 150A-B. Lecture 2 hours. 161B. Community Theory & Design Field. (2) Sp. Pre-requisite: Dental Education 150A-B. Lecture 2 hours. 161B. Dental Auxiliary Utilization 120. Use of Dental Auxiliaries. (6) F. W. Pre-requisite: General Dental I11. Lecture 1 hour for one-quarter of hour. Ino Clinical instruction and demonstration in the effective use of the dental assistant. GEN DENT 37
Field work experience utilizing techniques learned in Dental Health Education 161B.

158. Supervised Study. (1-3) F, W, S. Prerequisite: Dental Health Education 150A-B, 160A, and Biostatistics. Francisco Science Laboratory and clinical experience under supervision of a member of the faculty with the approval of the chairperson of the depart- ment. PERIOD I.

159. Laboratory Project. (1-3) F, W, S. Prerequisite: Dental Health Education 150A-B. Lecture 1 hour. Lab 6-12 hours.

160. Research. Francisco A laboratory research project under di- rection of a member of the faculty with the approval of the chairperson of the department. PERIOD I.

Dental Hygiene

109. Clinical Dental Hygiene. (1-2) S. Prerequisites: Objectives and outcomes at the beginning of the semester. Francisco Science Laboratory and clinical experience under supervision of a member of the faculty with the approval of the chairperson of the department. PERIOD I.

150A-C. Introduction to Dental Hygiene. (2-2-2) F, W, S. Lecture 2 hours. Lab 6 hours.

Course provides additional clinical dental hygiene experience before entry into the second-year clinic. PERIOD II.

150A-C. Introduction to Dental Hygiene. (2-2-2) F, W, S. Lecture 2 hours. Lab 6 hours.

Lab 6 hours.

Dental Hygiene Role of dental hygiene in dentistry studied. Emphasis on objectives and outcomes at the beginning of the semester. Francisco Science Laboratory and clinical experience under supervision of a member of the faculty with the approval of the chairperson of the department. PERIOD I.


Clinical dental hygiene seminar to discuss clinical procedures and patient management follow- ing initial agreement in Dental Hygiene 155A-B. PERIOD I.

159. Clinical Oral Pathologies. (2) F, W. Prerequisite: Dental Hygiene 155A-B. Clinical experience in dental hygiene. Hansenbeck (K).

Continuation of clinical experiences from Dental Hygiene 155A-B with emphasis on improved proficiency in all areas. PERIOD I.

159. Clinical Dental Hygiene Seminar. (1) S. Seminar 1 hour given in alternate weeks. Francisco Science Laboratory to discuss patient assessment and clinical procedures. PERIOD II.

160B. Jurisprudence and Office Management. (1, 2) W, S. Lecture 1 hour. W 2 hours. Lecture 1 hour. Lab 2 hours.

Introduction to the ethical, legal and professional responsibilities of the dental hygienist. In- teraction on the California Dental Practice Act, malpractice prevention and professional organizations. Integrated topics include practice management and career planning. PERIOD I.

161B. Orientation to Dentistry. (0.2-0.2) W, S. Prerequisite: Dental Hygiene 152A-B. Lecture 2 hours. Hansenbeck (K).

Continuation of Dental Hygiene 152A-B includes head and neck cancer management, orthodontics, dental radiology, and the Registered Dental Hygienist. PERIOD I.

189. Independent Study. (0.4-0.4) W, S. Prerequisite: Second-year standing in dental hygiene and consent of instructor. Hansenbeck (K).

Students select an area of interest for indi- vidual study or research. These may include clinical, community, educational, insti- tutional, or other areas. PERIOD I.

189.1. Mobile Clinic. (0.3) Clinical experience in mobile dental clinics. PERIOD I.

189.2. Community Health Clinic. (0.2) W, S. Prerequisite: Second-year standing in first- or second-year dental hygiene curriculum. Hansenbeck (K).

One-half unit of credit for every five three-hour visits made to off-campus clinics or in- stitutions. Objective is to secure free or low cost dental care to a community and involve- ment. This elective is above the required eight visits to clinics and institutions. PERIOD I.

189.3. Dental Hygiene Laboratory. (1.5) W, S. Prerequisite: Second-year standing in first- or second-year dental hygiene curriculum. Hansenbeck (K).

A laboratory research project under di- rection of a member of the faculty with the approval of the chairperson of the department. PERIOD II.

Dental Jurisprudence

180. Dental Practice Problems. (0.5) W. Lecture 1 hour for five sessions. Bradley (R).

The course broadens student insights into the legal problems and obligations of dental practice. GEN DENT

Dental Techniques

185. Intro to Basic Dental Techniques. (2) W, S. Prerequisite: Two hours for three weeks. Hosthos.

Technical orientation to the basic techniques taught in the first year of dental hygiene such as: morphology, prophylaxis, biocuralative, operative dentistry. RESTOR DENT

Dermatology

First-Year Coordinated Instruction—Dermatology. (0.2) F, W, S. Prerequisite: Consent of instructor. Hansenbeck (K).

First-year students and community medicine 110 includes lectures and case demonstrations on the examination and diag- nostic of dermatological diseases. This in- cludes history in history-taking, physical diagnosis, and diagnostic and therapeutic techniques.

140.1. Advanced Dermatology Clerk- ship. (1/2 per week) Su, F, W, S. Prerequisite: Consent of instructor. Hansenbeck (K).

Cran Lab.

Clinical dermatology of students are determined during the first two weeks of the program. Initial interview with the instructor. Em- phasis is placed on routine outpatient and inpatient care and research methods. PER- IOD VI.

140.2. Off-Campus Clerkship. (3/5 per week) Su, F, W, S. Prerequisite: Consent of instructor. Hansenbeck (K).

Off-campus clinical in approved hospitals by special arrangement and approval of the dean and director of the department. DERM.

150.10. Research. Dental Tech. (0.6) per week Su, F, W, S. Prerequisite: Consent of instructor. Hansenbeck (K).

A research project under the direction of a member of the faculty. DERM.

160.1. Clinical & Research Clerkship. (1) W, S. Prerequisite: Consent of instructor. Hansenbeck (K).

Activity of students are determined after an initial interview with the instructor. Em- phasis is placed on routine outpatient and inpatient care and research methods, ac- cording to individual interest. DERM.

199. Laboratory Project. (1-3.5) W, S. Pre- requisite: Consent of instructor. Hansenbeck (K).

A laboratory research project under di- rection of a member of the faculty with the approval of the chairperson of the department. PERIOD I.

400. Staff Conference. (2) F, W, S. Prerequisite: Consent of instructor. Hansenbeck (K).

A periodic evaluation of staff. Residents prepare and present case histories of patients at conferences, making reference to appropriate literature, special studies, and laboratory work. Conference includes discussion of new developments and recent investigations by staff members and faculty from other UC departments and other uni- versities.

401. Dermatopathology. (2) Su, F, W, S. Prerequisite: Consent of instructor. Hansenbeck (K).

Lectures and demonstrations of the histop- pathology of skin diseases with special em- phasis on correlation with clinical findings. Activities include the study of microscopic slides and discussions of material presented.

402. Dermatological Literature. (1) F, W, S. Prerequisite: Consent of instructor. Hansenbeck (K).

Seminar covers recent literature in der- matology. Included is assigned reading with

140.02A. Clinical Clerkship Abroad. (1 per week) E. Goldenberg.
Two-week block elective on the recognition of health problems and treatment of diseases of tropical and underdeveloped countries. The course is designed to prepare students for clerkships abroad.

150.01. Medicine. (1 per week) S. Pettit.
Clinical clerkship elective in a developing country. Students provide patient care at a medical school, provincial hospital, or rural health clinic for eight to twelve weeks. Arrangements may be made with the public health or research program abroad. EFDP INTL, ETH, HETH.

140.02B. Campus Clerkship. (1 per week) S, F. W. Sp. Prerequisite: Consent of chairperson.

140.03. Leprosy. (1 per week) S, F, W. Sp. Prerequisite: Medicine 110.

140.04. Refugee Screening Clinic-SGH. (1 per week) S, F, W. Sp. Prerequisite: Medicine 110.

140.05. Dew Lay. (1 per week) S. F. W. Sp. Prerequisite: Medicine 110.

150.01. Medicine in Developing Countries. (1 per week) W. Sp. Prerequisite: Epidemiology and International Health 100 or consent of instructor. Not offered 1985-86.

170.06. Human Health Geography. (5-5 T) S. F. W. Sp. Prerequisite: Geography 186 and given at UC Berkeley. Lecture 10 hours. Optional term paper for 5 units.

180.05. Maternal Care and Child Health. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. 10 hours. This course is designed to help students understand the major factors influencing infant and child health in developing countries, with special attention to assessing the impact of various conditions on the health of mothers and children in the developing world. EFDP INTL, ETH, HETH.

180.07. Environmental Induced Disease. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. The course examines the impact of environmental factors on human health, including air and water pollution, occupational hazards, and the role of environmental factors in the etiology of diseases. EFDP INTL, ETH, HETH.

180.08. Epidemiology and International Health. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. This course introduces basic concepts and techniques used in the study of the distribution and determinants of disease in human populations. It covers topics such as infectious and non-infectious disease epidemiology, demographic methods, and the use of statistical analysis in epidemiological research. EFDP INTL, ETH, HETH.

180.09. Tropical Medicine Clincics. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. The course is designed to provide an overview of tropical medicine, with a focus on the diagnosis, treatment, and prevention of diseases that are common in tropical and subtropical regions. EFDP INTL, ETH, HETH.

180.10. Vectors. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. This course covers the biology and ecology of vectors, the transmission of diseases, and the control of vector populations. EFDP INTL, ETH, HETH.

180.11. Exotic Vectors. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. This course focuses on the role of exotic vectors in the transmission of diseases in tropical and subtropical regions. EFDP INTL, ETH, HETH.

180.15. The Role of Microorganisms in Human Disease. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. This course examines the role of microorganisms in the causation of disease, with a focus on bacterial, viral, parasitic, and fungal pathogens. EFDP INTL, ETH, HETH.

180.16. Tropical Medicine Lectures. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. This course provides lectures, case histories, and films emphasizing diagnosis and treatment of tropical diseases, including parasitic infections, fungal infections, and diseases caused by arthropods. EFDP INTL, ETH, HETH.

180.20. The Role of Microorganisms in Human Disease. (5-5 T) S. F. W. Sp. Prerequisite: Consent of instructor. This course examines the role of microorganisms in the causation of disease, with a focus on bacterial, viral, parasitic, and fungal pathogens. EFDP INTL, ETH, HETH.
instructor. Course may be taken three con- secutive quarters in fulfillment of placement requirements, or one quarter on a selective basis during the summer quarter.
Field work experience or research germane to social medicine individually arranged with consideration to student’s major area of in- terest. FAM CMED 140, 140A-B, 140C.

140A-B. Community Medicine. (1.5 per quarter) A, B, and C are offered in all of the following quarters: Su, F, W, T, Th. Prerequisite: Medicne 110 and Pediatrics 110. Consen- sur required. P. Potkin

A. NAH at Salinas; B, SH at Fort Ord, C, others. Site courses strengthen students’ clinical skills and exposes them to varying U.S. medical settings. FAM CMED 140.

140B. Community Medicine. (1.5 per quarter) A, B, and C are offered in all of the following quarters: Su, F, W, Th, T, and 3 more weeks of the following quarters: Su, F, W, Th, T, and 3 more weeks of the following quarters: Su, F, W, Th, T. Prerequisite: Consent of instructor. W. T. Davis

A, S - San Francisco Bay Area; B, F - Fresno, C, others. Sites are assigned to medical students for two to four weeks. Emphasis will be on the selection of patients who are suitable for rehabilitation and the interprofessional approach to rehabilitation. FAM CMED 140.

140D. Adv Family Prac Preceptorship. (1.5 per quarter) A, B, and C are offered in advanced medical school standing and consent of instructor. L. Conrad

Course is designed for students with advanced medical school standing and consent of instructor. L. Conrad

Students may select from several sites such as the urban practice in San Francisco and Berkeley, or rural practice in Mendocino and Humboldt. Students participate in the care of patients and their families at the physician’s practice, local hospital and emergency room. FAM CMED 140.

140E. Scientific Basis of Family Pract. (3 Sche) Prerequisite: Family and Community Medicine 110 Lecture 10 hours. Reading and library research 20 hours. Course is given over two weeks. Rodnick, Ransom, Soder.

A two-week, lecture-discussion/library research course for junior medical students interested in Family Medicine careers. Course will cover research questions pertinent to Family Medicine. Lectures will be given with presentation of literature reviews. FAM CMED 140.

140A-B-C. Family Practice Clerkship. (1 per quarter) A, B, and C are offered in all of the following quarters: Su, F, W, Th, T. Prerequisite: Medicine 110. Consent of instructor required. Potkin.

A. NAH at Salinas; B, SH at Fort Ord, C, others. Site courses strengthen students’ clinical skills and exposes them to varying U.S. medical settings. FAM CMED 140.

140D. Adv Inpatient Fam Med Clinbship. (1.5 per quarter) Su, F, W, Th. Prerequisite: Medical student standing. Consent of instructor. Field work 4-8 hours. Barbacha

Non-block assignments to community health agencies where students have patient contact. Students choose an area of the agency's setting with field contact 4-8 hours. FAM CMED 140.

160. Community Medicine Field Work. (1.5-3.0 per quarter) Su, F, W, Th. Prerequisite: Medical student standing. Consent of instructor. Field work 4-8 hours. Barbacha

Non-block assignments to community health agencies where students have patient contact. Students choose an area of the agency's setting with field contact 4-8 hours. FAM CMED 140.

160A. Family Practice Continuity. (2 Su, F, W, Th, T, week). Prerequisite: Consent of instructor. Course must be taken for one full academic year. R. Goldschmidt, J. Mandel

Course provides students the opportu- nity to follow a small number of patients and families over the entire year during their non-scheduled time in the rotation program. Instructor: Continuing the experience for four years. R. Goldschmidt, J. Mandel

160B. Family Practice Preceptorship. (3 Su, F, W, Th, T, week). Prerequisite: Medical student standing. Consent of instructor. Field work 4-12 hours. R. Davis

Non-block assignment with a family prac- titioner in a private office or office community for a minimum of four a maximum of eight hours a week. Preceptorship allows students to observe their preceptors, work together, and experience the office environment to further their medical education. FAM CMED 140.

160C. Introduction to Family Therapy. (3 Su, F, W, Th, T, week). Prerequisite: Medical student standing. Consent of instructor. Field work 4-12 hours. R. Davis

Non-block assignment with a family prac- titioner in a private office or office community for a minimum of four a maximum of eight hours a week. Preceptorship allows students to observe their preceptors, work together, and experience the office environment to further their medical education. FAM CMED 140.

160D. Sports Med for Non-Orthopedists. (2-3) F Prerequisite: Consent of instructor. Lecture 2 hours. Clinic optional 4 hours.

Athletic medicine ranging from youth ath- letics to senior citizens. Emergency evaluation and treatment, prevention and injury, condi- tions and rehabilitation, directed at the community. Course consists of lectures and field work. FAM CMED 160.

160E. Mission Community Field Eleeve. (2 Su, F, W, Th, T, week). Prerequisite: Consent of instructor. Lab 2-6 hours, Field work 2-8 hours. FAM CMED 160.

160F. Health Care Planning. (1 per quarter) Consent of instructor. Field work 4-8 hours. FAM CMED 160.

160G. Health Care Planning. (1 per quarter) Consent of instructor. Field work 4-8 hours. FAM CMED 160.

160H. Health Care Planning. (1 per quarter) Consent of instructor. Field work 4-8 hours. FAM CMED 160.

160I. Comprehensive Study. (2-3) F Prerequisite: Consent of instructor. Lecture 2 hours. Clinic optional 4 hours.

Athletic medicine ranging from youth ath- letics to senior citizens. Emergency evaluation and treatment, prevention and injury, condi- tions and rehabilitation, directed at the community. Course consists of lectures and field work. FAM CMED 160.

160J. Mission Community Field Eleeve. (2 Su, F, W, Th, T, week). Prerequisite: Consent of instructor. Lab 2-6 hours, Field work 2-8 hours. FAM CMED 160.

160K. Health Care Planning. (1 per quarter) Consent of instructor. Field work 4-8 hours. FAM CMED 160.

160L. Health Care Planning. (1 per quarter) Consent of instructor. Field work 4-8 hours. FAM CMED 160.

160M. Health Care Planning. (1 per quarter) Consent of instructor. Field work 4-8 hours. FAM CMED 160.
180. Intro to Social & Preventive Med. (3) F, W. Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Students examine the role of social, political, economic, and environmental factors influencing health of the individual, community, and society. Topics include: preventive health care, health behavior and the social environment. 185. Health Care Systems. (3) Sp. Lecture 1 hour. Seminar 2 hours. Students will examine the impact of health care systems on populations, including: access, quality, and costs of care. 190. Family Counseling & Psychother. (3) W. F. W. Fr. No prerequisite. Lecture 2 hours. Seminar 3 hours. Health care professionals will learn to provide education and counseling to patients and families. 195. Community Health Education. (3) F. W. W. Fr. No prerequisite. Lecture 2 hours. Seminar 3 hours. Students will learn about the role of community health education in health care delivery. 200. Introduction to Health Science. (2) F, W. Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Students will develop an understanding of the basic principles of health science and how they apply to their careers in health care. 205. Genetics in Modern Medicine. (3) W. F. W. Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Students will study the principles of genetics and how they are applied in modern medicine. 210. Current Topics. (1-5) F, W. Sp. Prerequisite: Consent of instructor. Seminar 1-5 hours. Students will explore current topics in health care and discuss their impact on the field of medicine.

**Forensic Pathology and Medicine**

170.01. Basic Legal Principles. (1) Sp. Smucker Course covers basic legal principles and concepts such as medical records and documents, medical licensure and certification, forensic pathology, the expert witness, malpractice and professional liability. PATHOL General Dentistry

109. Community Dentistry Rotation. (0-0) F, W. Sp. Prerequisite: Certification of competency by the various departments within the school. Seminar 5 hours. Students will be placed in community dental offices to gain experience in a real-world setting. 109. Oral Rehabilitation. (1) W Seminar 1 hour. Lecture 3 hours. Students will learn about the various methods used in the rehabilitation of oral structures.

**General Dentistry**

101. Fixed Prosthodontics. (0-0) F. W. Sp. Prerequisite: Certification of competency by the various departments within the school. Seminar 5 hours. Students will be placed in community dental offices to gain experience in a real-world setting. 101. Oral Rehabilitation. (1) W Seminar 1 hour. Lecture 3 hours. Students will learn about the various methods used in the rehabilitation of oral structures.

A laboratory research project under the direction of a faculty member will be designed by the student. 102. Forensic Pathology. (3) Lecture 1 hour. Seminar 2 hours. Students will be introduced to the basic concepts and principles of forensic pathology, including the collection and analysis of evidence. 102. Forensic Medicine. (3) Lecture 1 hour. Seminar 2 hours. Students will be introduced to the basic concepts and principles of forensic medicine, including the collection and analysis of evidence.

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170.03. Evolution of American Medicine. (1-3) F, W, S. Lecture and seminar. Introduces and informal seminars on the growth of American medicine from Colonial times to the mid 19th century. An examination of the sociopolitical and socioeconomic factors influencing that growth. HIST 181 SC.

155B. Doctors in Fiction. (2) F, W. Seminar. 2 hours. Todes, S. Schiller convinced his fictional History of Health Science. 196. Seminar examines the changing image of medicine and the social, political, philosophical and personal issues involved in medical practice, as reflected in popular literature. Course provides a consumer's view of medicine in different societies and historical periods. HIST 182 SC.

155B. Doctors in Fiction. (2) W. Seminar 2 hours. Todes, S. Schiller convinced his fictional History of Health Science. 196. Seminar examines the changing image of medicine and the social, political, philosophical and personal issues involved in medical practice, as reflected in popular literature. HIST 182 SC.

183. Scientific Work of Pavlov. (3-2) F Seminar 2-3 hours. Todes. Examination of Pavlov's scientific work, particularly his famous conditioned reflexes, and the impact upon world medical science. The roots of Pavlov's work in social, cultural, philosophical, and scientific currents in the nineteen century will also be covered. HIST 183 SC.

184. History of Soviet Medicine. (2) W, S. Seminar 2 hours. Todes. Examination of medicine in the Tsarist period, with emphasis on the impact of the revolution and socialist construction upon public health, the medical care delivery system, and the factors influencing community and medical science. HIST 184 SC.

188. Health & Human Rights. (2) F, W, S. Seminar 2 hours. Todes, Breger, Todes, Jansen, Jameton. A study of how fundamental social theories of the shape of health care systems. HIST 188 SC.

195A. Doctors in Fiction. (2) W Seminar 2 hours. Todes, S. Schiller convinced his fictional History of Health Science. 196. Seminar examines the changing image of medicine and the social, political, philosophical and personal issues involved in medical practice, as reflected in popular literature. Course provides a consumer's view of medicine in different societies and historical periods. HIST 182 SC.

195B. Doctors in Fiction. (2) W. Seminar 2 hours. Todes, S. Schiller convinced his fictional History of Health Science. 196. Seminar examines the changing image of medicine and the social, political, philosophical and personal issues involved in medical practice, as reflected in popular literature. HIST 182 SC.

198. Supervised Study. (1-5) F, W, S. Prerequisite: Consent of instructor. Breger and Staff. Library research and directed reading under the guidance of a member of the faculty or the approval of the chairperson of the department. HIST 188 SC.

198. Supervised Study. (1-5) F, W, S. Prerequisite: Consent of instructor. Breger and Staff. Library research and directed reading under the guidance of a member of the faculty or the approval of the chairperson of the department. HIST 188 SC.

209. Victorian Age Medicine. (2) F. Prerequisite: Graduate standing or consent of instructor. Breger and Staff. Lecture and seminars 2 hours. HIST 192 SC.

209. Victorian Age Medicine. (2) F. Prerequisite: Graduate standing or consent of instructor. Breger and Staff. Lecture and seminars 2 hours. HIST 192 SC.

210. History of Medical Education. (1-3) F, W, S. Seminar 1-3 hours. Todes, S. Schiller convinced his fictional History of Health Science. 196. Seminar examines the changing image of medicine and the social, political, philosophical and personal issues involved in medical practice, as reflected in popular literature. HIST 182 SC.

210. History of Medical Education. (1-3) F, W, S. Seminar 1-3 hours. Todes, S. Schiller convinced his fictional History of Health Science. 196. Seminar examines the changing image of medicine and the social, political, philosophical and personal issues involved in medical practice, as reflected in popular literature. HIST 182 SC.

215. Theories of Human Nature. (3) F, S. Prerequisite: Graduate standing; 5 hours. Jansen. Course examines how several classical and modern philosophical traditions define human nature. Various basic theories and approaches to human nature will be covered. Topics may include: HIST 193 SC.

205.02. Western Medical Attitudes. (1-5) F, W, S. Prerequisite: Consent of instructor. Breger. Lecture and seminars 1-5 hours. HIST 193 SC.

205.02. Western Medical Attitudes. (1-5) F, W, S. Prerequisite: Consent of instructor. Breger. Lecture and seminars 1-5 hours. HIST 193 SC.

217. Seminar. (4) F, W, S. Prerequisite: Consent of department. Breger. Seminar course on history of medicine, the history of medical institutions, the development of medical and health care, the history of the medical professions, the history of medical education, and the history of medical ethics. HIST 194 SC.

220. Seminar. (4) F, W, S. Prerequisite: Consent of department. Breger. Seminar course on history of medicine, the history of medical institutions, the development of medical and health care, the history of the medical professions, the history of medical education, and the history of medical ethics. HIST 194 SC.

226. Seminar. (4) F, W, S. Prerequisite: Consent of department. Breger. Seminar course on history of medicine, the history of medical institutions, the development of medical and health care, the history of the medical professions, the history of medical education, and the history of medical ethics. HIST 194 SC.

226. Seminar. (4) F, W, S. Prerequisite: Consent of department. Breger. Seminar course on history of medicine, the history of medical institutions, the development of medical and health care, the history of the medical professions, the history of medical education, and the history of medical ethics. HIST 194 SC.
Theory and practice in visual information design and information literacy for print and for projected media, publication design, layout, typography, graphic arts and print tech-
nology. 5 ECTS. 1h hour 6 lab hours. 251. Advanced Media I (5-4-6) E F W. Prerequisite: Visual and Media Communication 342. 1 hour 6 lab hours. 252. Theory of motion media and practice in film and electronic camera techniques, lighting, sound production and mixing, and project management. 4 ECTS. 1 hour 6 lab hours. 253. Advanced Media II (5-4-6) E F W. Prerequisite: Consent of instructor. 1 hour 6 lab hours. 254. Theory of production design. Roles of pro-
duction personnel and tasks. Definition, practice in preproduction and design of actual production to be selected for live production in slided, film, television and film. Production subject to faculty approval and identification of fund-
ing. 2 ECTS. 1 hour 6 lab hours. 255. Production Design (5-4-6) E F W. Prerequisite: Consent of instructor. 1 hour 6 lab hours. 256. Theory and techniques of motion picture animation. Design and production of short full animation sequence with sound. Longer animated sequence may be designed for comple-
tion in Medical and Biological Illustration 258B with consent of instructor. 4 ECTS. 2 hour 6 lab hours. 257. Advanced Film Animation (4-3-6) E F W. Prerequisite: Medical and Biological Illustration 255A and consent of instructor. 1 hour 6 lab hours. 258. Elective continuous training in Medical and Bi-
ological Illustration 255A in motion picture animation. 4 ECTS. 2 hour 6 lab hours. 298. Thesis. (0-0-6) E F W. Prerequisite: Consent of the graduate adviser. Staff. Graduation project is designed in the project for the master's degree. 6 ECTS. 2 hour 6 lab hours. 421. Motion Media (4) E F W. Lecture 2 hours. Beiderfeid, Batscha Film and television. Video production in a studio setting with projects student-
produced motion pictures. Theories of motion dynamics. Basic camera motion. Basic cinematography, TV technology, production methods. 6 ECTS. 1 hour 6 lab hours. 423. Graphics for Publication (4-6) E F W. Prerequisite: Medical and Biological Il-
lustration 204A-B and consent of instructor. 2 hour 6 lab hours. 426. Animation and Design (4-5-6) E F W. Prerequisite: Medical and Biological Illus-
tration, consent of instructor. 2 hour 6 lab hours. 427. Production Design (4-5-6) E F W. Prerequisite: Medical and Biological Illustration 204A-B and consent of instructor. 2 hour 6 lab hours. 428. Visual Communication (4) E F W. Prerequisite: Consent of instructor. 1 hour 6 lab hours. Medical and Biological Illustration 204A-B. Portfolio & Graduate Show. (4-4-4) E F W. Lecture 1 hour Lab hours. 502. Visual design and assembly design in the production of graphic production including budget and arrangements for space, guest lists, invita-
tions, food and beverages for reception. 6 ECTS. 1 hour 6 lab hours. Medical Information Science 172. Programming Style. (3) E F W. Prereq-

Sebastian, Steiersenger, Ockner

Overall emphasis on processes of disease in organ systems demonstrating fundamental biochemical or physiological defects. Lectures cover background material and general concepts; students participate in discussions, are assigned topics for presentation, and are encouraged to develop ability to evaluate literature critically. Reading lists. MEDICINE


Sebastian, Steiersenger, Boushey, W. Gold

Emphasis on processes of disease in organ systems demonstrating fundamental biochemical or physiological defects. Lectures cover background material and general concepts; students participate in discussions, workshops, seminars, are assigned topics for presentation, and are encouraged to develop ability to evaluate literature critically. Reading lists. MEDICINE


Sebastian, Steiersenger, Kestle

Emphasizes biochemical and physiological processes that determine nutritional management problems in clinical medicine. Students attend lectures, participate in discussions and develop an independent ability to critically evaluate research literature in nutrition in specific areas and apply information to management of specific clinical problems. MEDICINE

140.23. Endocrine Metabolism—OC. (6) W, W.E. Prerequisite: Medicine 110 or Surgery 110. Enrollment limited. Baxter, Karam

Students attend rounds in the Coronary Care Unit, receive instruction in cardiology, learn the use of coronary care equipment, and attend the pulmonary function laboratory, and attend all regular teaching conferences and seminars. MEDICINE

N. Goldschlager, Rapapor!

Students work as interns in the Coronary Care Unit and attend all regular teaching conferences and seminars. MEDICINE

140.28. Infectious Disease—SPhG. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110. Enrollment limited.

Course includes active consultation service averaging three new consults per day. Patient daily rounds, usually involves infectious diseases/pediatrics mini- rounds and infectious diseases inerey rounds. Introduction to two infectious diseases—with principles per week. Reading and library research. MEDICINE

140.35. Cardiology—SPhG. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Shobert

Students work up and present services in the wards and competent clinics, participate in conferences and seminars, and learn the laboratory procedures applicable to their patients. MEDICINE

140.40. Cardiology—Medicine. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Bumpus

Students work up and follow renal and endocrine patients. They are responsi- ble in renal dialysis and peritoneal dialysis, they attend three-week ward rounds and biochemical services in renal and electrolyte diseases. MEDICINE

140.46. Critical Care—Medicine. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Chuley

Primary emphasis is on the treatment of acutely ill patients in Coronary Care Unit and Intensive Care Unit. Includes teaching in the use of monitoring and related equipment, cardiovascular, and related aspects of medicine. MEDICINE

140.52. Gastroenterology—Medicine. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Goldner

Students attend rounds in the Coronary Care Unit, receive instruction in cardiology, learn to use coronary care equipment, and attend the pulmonary function laboratory, and attend all regular teaching conferences and seminars. MEDICINE

N. Goldschlager, Rapapor!

Students work as interns in the Coronary Care Unit and attend all regular teaching conferences and seminars. MEDICINE

140.33. Infectious Diseases—PAC. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110. Open to UCSF students only.

Students may elect clinical clerkship in infectious diseases. Activities include working in infectious disease service, ward rounds, and attending seminars. MEDICINE

140.34. Renal Disease—SPhG. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Shobert

The student will join the renal team and participate under supervision in evaluation and treatment of patients with renal disease or disorders of fluid, acid, base, and electrolyte balance. Emphasis is placed on pathophysi- ology, history-taking, physical examination, and case presentation. MEDICINE

140.35. Cardiology—SPhG. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Cheltain, Rapapor, N. Goldschlager, Clancy, Warnow, Byrd

Students see patients in consultation on wards and clinic, read clinic materials, conduct review cases with cardiac consultant, and attend all seminars and conferences. MEDICINE

140.36. Emergency Medicine—Medicine. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Goldner

Students function as clinical clerks and set up patients under supervision of interns and residents. They assist in such specialty procedures as sigmoidoscopies per oral endos-copies. They attend radiology and pathology conferences and have special opportunities to be held daily. Students are on bedside instruction. MEDICINE

140.39. Pulmonary Disease—PAC. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Boushey

Students examine patients in consultation on wards and in ICU, and present them at ward rounds, pulmonary function and radiology conferences. They participate in pulmonary medicine service rounds and do assigned readings. MEDICINE

140.41. Gastroenterology—SPhG. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110. Enrollment limited. To fourth-year students. Cello

Students are responsible for evaluation of gastrointestinal tract. Students work-ups are thoroughly discussed with gastroenterology staff. Students observe GI techniques including sigmoidoscopy, colonoscopy, endoscopy over biopsy. Daily clinical conferences are held at three affiliated hospitals. MEDICINE

140.42. Toxicology & Occup Med—SPhG. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110. Preference given to UCSF stu- dents and UCSF students only.

C. Becker

Students will evaluate patients in hospital and clinic settings. Students participate in patient oriented rounds with special emphasis on drug therapy, occupational medicine, over-dose, drug abuse, and alcoholism, as well as treatment of cardiovascular and gastroin- testinal diseases. MEDICINE

140.43. Rheumatology & Immunology—Medicine. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110.

Seaman

Students are expected to have a solid background in rheumatology and immunology, offering both clinical and laboratory experience. The stu- dents are expected to attend all classes and take part in all scheduled activities and programs. MEDICINE

140.45. Endocrine Metabolism—VA. (1 1/2 per week) Su, W, W.P. Prerequisite: Medicine 110. Enrollment of Instructors limited. Priority given to UCSF students.

I. Bistrian, Arnaud
452. Clinical Medicine. (11) per week) Su, F, W, Sp. V. C. Rosenfeld F, W, Sp. Students are responsible for patient care under the direction of the attending staff, including history-taking, physical examinations, laboratory tests, and consultations. The chief resident, in addition, has certain responsibilities involving the residents, and consults for all other hospital services. MEDICINE.


460. Clinical Primary Care. (11) per week) Su, F, W, Sp. Credle and Staff. Residents in the Primary Care Track of Internal Medicine are responsible for patient care in a multispecialty primary care clinic. Other rotations include those common to the regular Medicine Internship Program as well as related clinical services such as Dermatology, Neurology, MEDICINE.

461. Clinical Primary Care. (11) per week) Su, F, W, Sp. Credle and Staff. Residents in the Primary Care Track of Internal Medicine are responsible for patient care in a multispecialty primary care clinic. Other rotations include those common to the regular Medicine Internship Program as well as related clinical services such as Dermatology, Neurology, MEDICINE.

490. Clinical Medicine. (11) per week) Su, F, W, Sp. SPGH H. Williams F, W, Sp. Residents are responsible for the care of patients under the direction of the attending staff, and participate in student teaching. Third-year, senior, and chief residents provide teaching and consultation service in the hospital and outpatient clinics. MEDICINE.

491. Clinical Medicine. (11) per week) Su, F, W, Sp. SPGH H. Williams F, W, Sp. Residents are responsible for the care of patients under the direction of the attending staff, and participate in student teaching. Senior residents provide teaching and consultation service in the hospital and outpatient clinics. MEDICINE.

492. Clinical Medicine. (11) per week) Su, F, W, Sp. U. C. L. Smith F, W, Sp. Students are responsible for patient care under the direction of the attending staff, including history-taking, physical examinations, laboratory tests, and consultations. The chief resident, in addition, has certain responsibilities involving the residents, and consults for all other hospital services. MEDICINE.

495. Clinical Medicine. (11) per week) Su, F, W, Sp. U. C. L. Smith F, W, Sp. Interns are responsible for the care of patients under the direction of the attending staff, and participate in student teaching. MEDICINE.

Microbiology and Immunology

100A. Medical Immunology. (11) Sp. Prerequisite: Biochemistry 100A-B Lecture 6 hours. Equivalent to Microbiology 121 and 122A.

100B. Medical Immunology. (11) Sp. Prerequisite: Biochemistry 100A-B Lecture 6 hours. Lab 5 hours. Conference 1 hour. Equivalent to Microbiology 121.

100C. Medical Immunology. (11) Sp. Prerequisite: Biochemistry 100A-B Lecture 6 hours. Lab 5 hours. Conference 1 hour. Equivalent to Microbiology 121.

100D. Graduate Medical Microbiology. (6-9) 1 Pre requisite: Biochemistry 100A-B Lecture 4½ hours. Lab 5 hours. Conference 1 hour. Equivalent to Microbiology 121.

190B. Advanced Microbiology. (6-9) 1 Prerequisite: Biochemistry 100A-B. Lecture 4½ hours. Lab 5 hours. Conference 1 hour. Equivalent to Microbiology 121.

190C. Marketing and Sales. (6) 1 Prerequisite: Microbiology 100A-B and 122A. Equivalent to Microbiology 121.

190D. Clinical Microbiology. (6) 1 Prerequisite: Biochemistry 100A-B. Lecture 4½ hours. Lab 5 hours. Conference 1 hour. Equivalent to Microbiology 121.

205. Selected Topics in Cell Immunology. (6-9) 1 Prerequisite: Microbiology 100A-B Lecture 4 hours. Offered in alternate years. Staff C. L. Miller.

206. Pathogenic Fungi. (2) 1 Prerequisite: Microbiology 100A-B Equivalent to Microbiology 121. Lab and conference 4 hours. Halide A systematic review of selected areas of cellular immunology, including lymphoid cell interactions in immune regulation, specific and nonspecific immunosuppression, and genetic control of the immune response. Microbiology.

207. Cellular Immunology Lab. (3) 1 Prerequisite: Microbiology 205, 204 and consent of instructor. Laboratory exercises in: immunology and laboratory procedures. Microbiology.

208. Molecular & Cellular Immunology. (3) 1 Prerequisite: Microbiology 100A-B and Microbiology 100B and equivalent. Lecture 3 hours. Offered in alternate years. Offered 1983-84. J. W. Goodman.

150B. Microbiology Research. (1-15) per week) Su, F, W, Sp. Prerequisite: Microbiology 100A-B and consent of instructor. Staff.

Research in microbiology, block elective for fourth-year students. Microbiology.

190A. Med Immunology-Grad Students. (11) 1 Prerequisite: Biochemistry 100A-B. Lecture 6 hours. Conference 1 hour. Equivalent to Microbiology 100A and 122A.

190B. Advanced Immunology. (6-9) 1 Prerequisite: Microbiology 100A-B and 122A. Lecture 4½ hours. Lab 5 hours. Conference 1 hour. Equivalent to Microbiology 121.

Advanced course covering antigen-antibody interactions, with special emphasis on their biological importance; experimental immunology: both the Th1 and Th2 responses; basic and applied aspects of immunization, immunological unresponsiveness, cytokine reactions and their role in the complement system. Microbiology.

205. Selected Topics in Cell Immunology. (6-9) 1 Prerequisite: Microbiology 100A-B Lecture 4 hours. Offered in alternate years. Staff C. L. Miller.

206. Pathogenic Fungi. (2) 1 Prerequisite: Microbiology 100A-B Equivalent to Microbiology 121. Lab and conference 4 hours. Halide A systematic review of selected areas of cellular immunology, including lymphoid cell interactions in immune regulation, specific and nonspecific immunosuppression, and genetic control of the immune response. Microbiology.

207. Cellular Immunology Lab. (3) 1 Prerequisite: Microbiology 205, 204 and consent of instructor. Laboratory exercises in: immunology and laboratory procedures. Microbiology.

208. Molecular & Cellular Immunology. (3) 1 Prerequisite: Microbiology 100A-B and Microbiology 100B and equivalent. Lecture 3 hours. Offered in alternate years. Offered 1983-84. J. W. Goodman.

Structural and functional aspects of antigens and antibodies, including chemical and genetic basis of immunogenicity, structure and biosynthesis of immunoglobulins, antigen-antibody interactions, immunizations, properties of immunocompetent cells, cell cooperation, lymphocyte receptors for antigen. Microbiology.

204. Immunobiology. (3) 1 Prerequisite: Microbiology 100A-B and equivalent. Lecture 3 hours. Conference 1 hour. Offered in alternate years. Not offered 1983-84. Varmus, J. M. Bishop, Levintson.

The nature of viruses, viruses of structural cell interaction with emphasis on animal virus
The student will become a member of the house staff, attending ward rounds, working up patients, assisting at operations, and sitting night call on rotation with a resident. Limited to one student per hospital. NEUBRO SURG

40.02. Off-Campus Clerkship, (1.5) per semester (5) W. Sp. Preceptor: Preneur. Neurology 110. Rosegay

Clinical clerkship in approved hospitals for special assignment, and approval of the dean and chairperson of the department. NEUBRO SURG

198. Supervised Study, (1.5) F. W. Sp. Preceptor: Consent of instructor. Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. NEUBRO SURG

199. Laboratory Project, (1.5) F. W. Sp. Preceptor: Consent of instructor. A laboratory research project under direction of a member of the faculty with approval of the chairperson of the department. NEUBRO SURG

40. Staff Conference, (2) Su, F. W. Sp. Residents. Under supervision, prepare and present case histories of ward patients in conferring laboratory work, X-ray studies, special diagnostic procedures and other pertinent material. Discussion is led by the faculty with participation by residents. NEUBRO SURG

40.02. Conference, (2) Su, F. W. Sp. Residents discuss clinicopathological aspects of cases, and their correlation with the literature and special studies. Faculty and visitors are present. NEUBRO SURG

49. Clinic Neurology Surg.-SGH & VA (1.5 per week) Su, F. W. Sp. Interns rotate through neurological surgery wards. Under the supervision of the attending staff they attend at their assigned clinic patients, including history-taking, neurologic examination, laboratory diagnosis, clinical procedures, and consultation. NEUBRO SURG

40.03. Literature Review, (1) Su, F. W. Sp. Preceptor. Recent literature in neurology and neurosurgery is presented. Discussion by members of the faculty in attendance and by residents from other schools interested in this and related fields. NEUBRO SURG


Residents, under supervision, are responsible for patient care in the wards and clinic including history-taking, physical examination, laboratory tests, and consultations. In addition, the senior resident has certain administrative, teaching, and clinical responsibilities. NEUBRO SURG

451. 1-Clinical Neurosurgery-SGH (10) Su, F. W. Sp. Residents responsible for the care of patients, under the direction of the attending staff, including history-taking, physical examination, laboratory diagnosis, and consultation. In addition, the senior resident has certain teaching and administrative responsibilities. Attendance at departmental clinics, rounds, and conferences is required by the attending staff. NEUBRO SURG

453. Clinical Neurology-VA, (10) Su, F. W. Sp. Residents are responsible for diagnosis and care of patients in wards and clinic and performance of studies and laboratory procedures. NEUBRO SURG

455. 2-Off-Campus Clerkship, (1.5 per week) Su, F. W. Sp. Preceptor: Neurorology R. Fishman.

Clinical clerkship in approved hospitals by special arrangement and approval of the dean and the chairperson of the department. NEUBIOLOGY

456. Advanced Neurology, (1.5 per week) Su, F. W. Sp. Preceptor: Neurology 110; and consent of instructor. R. Fishman, D. R. Lluis, Baringer. Staff members work in the day, evening and night rotation. NEUBIOLOGY

101.05. Neurology Research, (1.5 per week) Su, F. W. Sp. Preceptor: Neurorology 110 and consent of instructor. Opportunities for research in one of the departmental laboratories by arrangement with the chairperson of the department. NEUBIOLOGY

101.06. Neuropathology, (1.5 per week) Su, F. W. Sp. Preceptor: Anatomist 110 and Pathologist 102. (10) Su, F. W. Sp. Preceptor: Anatomist 110 and Pathologist 102. Tissue pathologic of diseases of the nervous system will be explored in greater depth in this course. NEUBIOLOGY

198. Supervised Study, (1.5) Su, F. W. Sp. Preceptor: Consent of instructor. NEUBIOLOGY

The students will be involved in the care of children who develop neurological problems, including those related to medical illness, neurosurgical procedures, and psychiatric and oncological conditions. Participation in child neurologic activities, including ward, inpatient, and outpatient care, and attendance at the scheduled conferences of the Child Neurology Section will be required. Students will be encouraged to study the neuroanatomy and neurophysiology of the nervous system and diseases of the nervous system affecting infants, children and adolescents. NEUBIOLOGY


Students serve as clinical clerks in the outpatient clinic and on the consultation service. Attendance at all departmental clinics, rounds, seminars, and conferences is required. Prior arrangements must be made. NEUBIOLOGY

140.05. Advanced Neurology Clerkship- (10) per week Su, F. W. Sp. Preceptor: Neurology 110 and consent of instructor. R. Fishman, R. Simon.

Students serve as clinical clerks in the outpatient clinic and on the consultation service. Attendance at all departmental clinics, rounds, seminars, and conferences is required. Prior arrangements must be made. NEUBIOLOGY


Opportunities for research in one of the departmental laboratories by arrangement with the chairperson of the department. NEUBIOLOGY

150.02. Neuropathology, (15 per week) Su, F. W. Sp. Preceptor: Anatomist 103 and Pathologist 102. Tissue pathologic of diseases of the nervous system will be explored in greater depth in this course. NEUBIOLOGY

150.18. Supervised Study, (1.5) Su, F. W. Sp. Preceptor: Consent of instructor. NEUBIOLOGY

Librarians review and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. NEUBIOLOGY

199. Laboratory Project, (1.5) per week Su, F. W. Sp. Preceptor: Consent of instructor. R. Fishman, R. Simon.

Students serve as clinical clerks in the outpatient clinic and on the consultation service. Attendance at all departmental clinics, rounds, seminars, and conferences is required. Prior arrangements must be made. NEUBIOLOGY


Opportunities for research in one of the departmental laboratories by arrangement with the chairperson of the department. NEUBIOLOGY

150.02. Neuropathology, (15 per week) Su, F. W. Sp. Preceptor: Anatomist 103 and Pathologist 102. Tissue pathologic of diseases of the nervous system will be explored in greater depth in this course. NEUBIOLOGY

150.18. Supervised Study, (1.5) Su, F. W. Sp. Preceptor: Consent of instructor. NEUBIOLOGY

The students will be involved in the care of children who develop neurological problems, including those related to medical illness, neurosurgical procedures, and psychiatric and oncological conditions. Participation in child neurologic activities, including ward, inpatient, and outpatient care, and attendance at the scheduled conferences of the Child Neurology Section will be required. Students will be encouraged to study the neuroanatomy and neurophysiology of the nervous system and diseases of the nervous system affecting infants, children and adolescents. NEUBIOLOGY

414. Neurogenetic. (1 per week) F W, S, W, M.

419. Clinical and basic research in psoriatic disease. After consultation, assignments to one or two laboratories in the instructor’s laboratories will be possible. NEUROLOGY.

421. Neuropathology Research. (10) S, W, W. Specific projects in experimental pathology of the nervous system may be undertaken by direct arrangement. Techniques include neu- rohistology, histologic autoradiography, and histochemistry. NEUROGENETICS.


427. Nuclear Medicine (1 per week) F W, W.

429. Nuclear Magnetic Resonance Imaging (1 per week) F W, W.

430. Clinical Electrophysiology. (1 per week) F W, W.

431. Clinical Electrophysiology. (1 per week) F W, W.

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515. Clinical Electrophysiology. (1 per week) F W, W.
Course provides opportunity to develop a professional system appropriate to the student's area of interest. Knowledge and skill basic to the professional nursing leadership role are the focus of the course. MENT HETH COM 137. Consulting Nursing (5). Lecture 2 hours. Lab 7 hours. Conference 2 hours.

Laeryff

Appreciation of community health nurses and their role in practice and the community health setting, focusing on assessing, implementing, and evaluating nursing care measures as they apply to families, groups, and communities. Health planning, community assessment and public policy will be examined. MENT HETH COM 155. Clinical Uses of Drugs. (5) F, W, Sp. Lecture 3 hours.

Okeowo

Course deals with commonly used drugs, with emphasis on use of a drug in only one of the choice, mode of action, and significant side effects. PHYSIOL NURS

1778. Adult Primary Care Psychosoc Prob. (3) Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Ayres

The assessment and management of common adaptive responses to situations, developmental stresses, and interruptions in patterns of cognition, sensation, and feelings of adults. Nurse practitioners' behaviors which interact with client's coping responses will be explored. MENT HETH COM

1779. Adult Primary Care Psychosoc Prob. (2) Prerequisite: Nursing 177A or consent of instructor. Lecture 2 hours. J. G. Lipson

An exploration of the development and management of common adaptive responses to situations, developmental stresses, and interruptions in patterns of cognition, sensation, and feelings of adults. Nurse practitioners' behaviors which interact with client's coping responses will be explored. MENT HETH COM

181. Law & Nursing Practice. (2) F, Sp. Lecture 3 hours.

Survey of fundamental and critical current legal issues with respect to the legal environment and practice of nursing. Emphasis on legal con-
generees encountered in the everyday practice of nursing in both hospital and community settings. PHYSIOL NURS

187. Scientific Writing. (1) F, W, Sp, Prerequisite: Consent of instructor. J. F. R. Gunn

Enrollment Limited. Course will prepare students to write and review scientific theses. The scientific style of writing outlined in the APA Manual will be followed. Students will make presentations and participate in group and individual conferences. PHYSIOL NURS


M. L. Ayres

An analysis of the developmental, physiological, and psychological aspects of human sexuality, and the normalcy or abnormality of human sexual behavior in the context of cultural, religious, and personal factors. PHYSIOL NURS


D. Dunlap

Principles of curriculum development. Utilization of these principles as a framework for planning educational programs in schools of nursing and nursing services. PHYSIOL NURS


B. C. Bormann

Experiences the nature of theory and relationship between philosophical, theoretical, and science. Provides knowledge and experience in all stages of theory development, exploration and critique of epistemological and historical ideas in nursing; scholarly exchange toward independent discovery. MENT HETH COM

202B. Prototype Theories. (3-4) W. Prerequisite: Theory Development. Lecture 3-4 hours.

Lec

Comparative study and critical analysis of major prototype theories from which concepts of nursing are derived. Emphasis is placed on systems, symbolic interaction, development, and adaptation level theories. MENT HETH COM


Wells

Seminars focused on the development and testing of instruments to measure the concepts. Exemplary concepts may include physical pain, immobility, sidlness. PHYSIOL NURS

206C. Testing Theory & Practice. (3) Prerequisite: D.N.S. student standing. Nursing 206 or consent of instructor. Lecture 3 hours. F. Underwood

Seminars focused on the development and testing of instruments used to measure the concepts. The student will conduct a pilot study to determine the validity, reliability and utility of the instruments. PHYSIOL NURS


Analysis of the literature relating social support to various health and adjustment outcomes with emphasis on conceptual and methodological issues. Prerequisite: Consent of instructor; a focused review of the social support literature and additional readings in research and clinical interests. MENT HETH COM

210A. Family Dynamics-Concepts & Assmnt. (2-4) W. Lecture 2 hours. B. Hall, Prerequisite: D.N.S. student standing. Seminar 3 hours.

Lindsey

Using clinical rounds and seminar approach, concepts related to major biologic phenomema are examined and described from theoretical, philosophical, and empirical perspectives. Concepts of interest to nurses are selected from health illness states observed in patients in family psychiatric setting. PHYSIOL NURS

208B. Measurement Theory & Practice. (3) Prerequisite: D.N.S. student standing. Nursing 208 or consent of instructor. Seminar 3 hours.

Carriker, Lindsey

Seminar focuses on the measurement of concepts related to physiologic processes. Students critically analyze existing quantitative and qualitative instruments used to measure the concepts. Examples may include physical pain, immobility, sidlness. PHYSIOL NURS

206C. Testing Theory & Practice. (3) Prerequisite: D.N.S. student standing. Nursing 206 or consent of instructor. Lecture 3 hours. B. Hall

Seminar emphasizing families in which aid in the understanding of dysfunction of families. Marriage and family therapy as treatment modalities are studied. MENT HETH COM


Analysis of the literature relating social support to various health and adjustment outcomes with emphasis on conceptual and methodological issues. Prerequisite: Consent of instructor; a focused review of the social support literature and additional readings in research and clinical interests. MENT HETH COM

208B. Measurement Theory & Practice. (3) Prerequisite: D.N.S. student standing. Nursing 208 or consent of instructor. Seminar 3 hours. B. Hall

Seminar focuses on the measurement of concepts related to physiologic processes. Students critically analyze existing quantitative and qualitative instruments used to measure the concepts. Examples may include physical pain, immobility, sidlness. PHYSIOL NURS

206. Adult Psychiatric Nursing. (5) W, Sp. Prerequisite: Nursing 227 and 219 or equivalent, and consent of instructor. Lecture 3-4 hours. F. Underwood

Nursing seminar designed for graduate psychiatric nursing students. Seminar 3 hours. Physiologic and psychological implications of major concepts in psychiatric nursing. MENT HETH COM

206C. Testing Theory & Practice. (3) Prerequisite: D.N.S. student standing. Nursing 206A and 208B or consent of instructor. Seminar 3 hours. F. Underwood

Seminars focused on the development and testing of instruments used to measure the concepts. The student will conduct a pilot study to determine the validity, reliability and utility of the instruments. PHYSIOL NURS
Criteic of studies in patient family teaching with the intent of developing an intercammen. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HETH

211.8. Child Mental-Child Nursing Crit. (3) W Prerequisite: Consent of instr. Corequisite: Lecture 2 hours. Lab 3 hours. Chafezy Critic of studies in mental-child nursing with the intent of developing an intercammen. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HETH

211.08. Critic of Aging Studies. (3) W Prerequisite: Consent of instructor. Noerbeck Lecturer 2 hours. Lab 2 hours. 

H. A. Fields Presents studies of aging with the intent to develop research consummation. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HETH

211.07. Critic of Oncology Nursing. (3) W Prerequisite: Consent of instructor. Seguin 3 hours. Dodd Presentation of the scholarly process of critiquing published research in oncology nursing. Emphasis will be on evaluation of the research processes utilized by investigators and the implications of empirical findings for oncology nursing practice. FAM HETH

211.12B. Occup. Hist Res-Critical Review. (3) W Prerequisite: Nursing 211A or consent of instructor. Stotts Lecture 2 hours. Lab 3 hours. 

Critical analysis of studies exploring the relationship of the workplace to the health of the worker. Emphasis is on appraisal of relevant scientific literature, identification of research methods, and development of research questions in occupational health nursing. MENT HETH COM

211.14. Illness Behavior Critique. (3) W Prerequisite: Consent of instructor. 2 hours. Lab 5 hours. Chaufetz Critique of research in illness behavior, including psychiatric factors, with the intent to develop research consummation. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. MENT HETH COM

211.16. Role of Social Support Critique. (3) W Prerequisite: Nursing 211A or consent of instructor. Lecture 2 hours. Lab 2 hours. Dodd Application of research methodology to clinical nursing questions: formulation of clinical questions, experimental and quasi-experimental design, instrumentation, introduction to data analysis, including statistical evaluations and Pearson. MENT HETH COM

213A. Meas & Pat Monitors. (2-3) W Prerequisite: Consent of instructor. Lec- ture 2 hours. Lab 2 hours. "Bennett Fundamentals of electronics, transducers, and instrumentation directly applicable to the modes of obtaining physiological data from patients. PHYSIOL NURS

215C. Community Health Planning. (3) W Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Laffer Explore of analytic planning models applicable to community health services. Utilization of the community as a basis for planning and delivery of health care. Emphasis is on the role of the community nurse in health planning. MENT HETH COM

215D. Com Organization Strategies. (3) W Prerequisite: Consent of instructor. Lecture 3 hours. 

Laffer Exploration of strategies of institutional analysis, community assessment, and methods of community organization and development, which enable nurses to facilitate others' capacities to define, plan for, and meet their own needs. Emphasis is on mental health priorities. MENT HETH COM

216. Interventions for Work Stress. (2) W Prerequisite: Consent of instructor. 

Baldwin Course will help to enable students to evaluate the research and current models of stress work stress. From this analysis, the student will be able to select strategies for assisting and intervening in nursing stress situations. PHYSIOL NURS

217. Psychosocial Care of Children. (3) W Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. "Bennett Exploration of the theory related to the psychosocial experiences of illness and hospitalization for the children and their family. Focus is directed to minimizing trauma and promoting growth. Concurrent practices recommended. PHYSIOL NURS/FAM HETH

218. Care of Ill or Injured. (3-4) W Prerequisite: Consent of instructor. Investigation of, and enrollment in, mental injury centers. "Bennett Lab optional 3 hours. "Bennett Students are critical of research on stressor groups and societal levels. Emphasis is on the concept of how depression and illness are expressed in the child and what implications of research approaches and findings for nursing practice. MENT HETH COM

219. Psychiatric Assessment of Adults. (3) W Prerequisite: Consent of instructor. "Bennett Students are critical of research on stressor groups and societal levels. Emphasis is on the concept of how depression and illness are expressed in the child and what implications of research approaches and findings for nursing practice. MENT HETH COM

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221. Critical Care. (3) W Prerequisite: Consent of instructor. Arter Lecture 2 hours. Duggar Analysis of studies exploring the relationship of the workplace to the health of the worker. Emphasis is on appraisal of relevant scientific literature, identification of research methods, and development of research questions in occupational health nursing. MENT HETH COM

221A. Community HETH. (2-3) W Prerequisite: Consent of instructor. "Bennett 2 hours. Lab 3 hours. Oda Exploration of theories, concepts and principles pertaining to the practice of community health nursing with focus on positive health factors and integration among families, groups, and the community. PHYSIOLOGICAL NURS

221B. Survey of Health Status Research. (2-5) W Prerequisite: Consent of in- structor. Lecture 2 hours. Lab 2 hours. Tester Enrollment limited. Preference given to community health nursing specialist students. Physiological nurses

215C. Community Health Planning. (3) W Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Laffer Explore of analytic planning models applicable to community health services. Utilization of the community as a basis for planning and delivery of health care. Emphasis is on the role of the community nurse in health planning. MENT HETH COM

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245. Family & Childbearing. (3) 3 F. W. Lab 5 hours. Semester 2 hours. Mercer, May Concepts in newborn care; psychological, physiologic and psychosocial factors as they impact on the family during childhood and early parenting. Emphasis on transition to parenthood, infant growth and development, and couple concerns, and issues in effective change to provide optimal nursing care: PAM HETH 255.

250. Children's Health Nursing. (4) 4 F. W. Prerequisite: Consent of instructor. Lecture 4 hours. Merrin, Molly Theoretical and clinical concepts and knowledge of the family in the areas of childbearing and child health: development, prevention, and health of the newborn, infant, child and adolescent. Emphasis on parental role and behavior in child rearing: PAM HETH 251.

251. Family & Childbearing. (3) 3 F. W. Lab 5 hours. Semester 2 hours. Mercer, May Concepts in newborn care; psychological, physiologic and psychosocial factors as they impact on the family during childhood and early parenting. Emphasis on transition to parenthood, infant growth and development, and couple concerns, and issues in effective change to provide optimal nursing care: PAM HETH 255.

250. Children's Health Nursing. (4) 4 F. W. Prerequisite: Consent of instructor. Lecture 4 hours. Merrin, Molly Theoretical and clinical concepts and knowledge of the family in the areas of childbearing and child health: development, prevention, and health of the newborn, infant, child and adolescent. Emphasis on parental role and behavior in child rearing: PAM HETH 251.

251. Family & Childbearing. (3) 3 F. W. Lab 5 hours. Semester 2 hours. Mercer, May Concepts in newborn care; psychological, physiologic and psychosocial factors as they impact on the family during childhood and early parenting. Emphasis on transition to parenthood, infant growth and development, and couple concerns, and issues in effective change to provide optimal nursing care: PAM HETH 255.
282. Pregnancy & Early Motherhood. (3) § E: Lecture, 2 hours. Prerequisites: Consent of instructor. Lecture 2 hours. Semester 5-semester 6.


284. Psychiatric Research Methods. (2) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Fall semester 5.

285. Anxiety Disorders. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Fall semester 5.

286. 3D Visualization in Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Fall semester 5.

287. Personality & Social Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Spring semester 5.

288. Substance Abuse. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Spring semester 5.


290. Cognitive Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Spring semester 5.

291. Biopsychosocial Factors in Health & Disease: Applications to Clinical Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Spring semester 5.

292. Health Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Fall semester 5.

293. Research Methods in Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Spring semester 5.

294. Psychopharmacology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Fall semester 5.

295. Psychological Assessment. (3) § E: Lecture and practice. Prerequisite: Consent of instructor. Seminar 2 hours. Spring semester 5.

296. Psychological Research Methods. (2) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Fall semester 5.

297. Family Stress & Coping Research. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Fall semester 5.

298. Personality & Social Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Spring semester 5.

299. Cognitive Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Spring semester 5.

300. Health Psychology. (3) § E: Lecture. Prerequisite: Consent of instructor. Seminar 2 hours. Fall semester 5.
295. Quasi-Experimentation in Res. (3) \( \frac{F}{W} \) Sp. Prerequisite: Consent of instructor. Seminar 3 hours.

Holzemer Seminar discussing validity issues of quasi-experiments in health services designs, interpreted as case studies, generalization, research designs, nonrandomized impact evaluation, and randomized experiments. PHYS 200 
296. Quality Assurance & Evaluation. (4) \( \frac{W}{Y} \) Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 2 hours.

Abu-Saad Analysis of principles, theories and research in the field of teaching with emphasis on teaching strategies and evaluation methods applicable to clinical and educational settings. The student's dissertation is incorporated for application and evaluation of selected teaching interventions. PHYS 297. Financial Management. (3) \( \frac{W}{Y} \) Sp. Prerequisite: Consent of instructor. Lecture 3 hours.

Staff Critical analysis and synthesis of basic economic principles and accounting principles and their relationship to financial planning and control in health care and educational settings. Consent of instructor is a prerequisite for enrolling in this course. Variation of 1 hour.

298. Thesis or Comprehensive Exams. (0) \( \frac{F}{W} \) Sp. Prerequisite: Advancement to candidacy. Staff

Graduate students in good standing will be scheduled to write the thesis for the master's degree or take a comprehensive examination for advanced standing in the summer or fall semester. Staff

299. Dissertation. (0) \( \frac{F}{W} \) Sp. Prerequisite: Advancement to candidacy and permission of the graduate advisor. Staff

Graduate students engaging in writing the dissertation for the Doctor of Nursing Science (D.N.S.) degree.

116 Nursing

Nursing/Nutrition/Osteopathy, Gynecology and Reproductive Sciences 117

200. Maternal & Infant Nutrition. (2-4) \( \frac{W}{Y} \) Sp. Prerequisite: Consent of instructor. Lecture 2-4 hours. Laboratory 2-4 hours. Staff

Guzman Application of current maternal nutrition research to train students in working with other health professionals to offer interdisciplinary maternal nutrition counseling in the prevention of low birth weight. Emphasis will be placed on cultural factors in assessment and counseling. FAM HETH

140.05. Advanced Medical Nutrition. (3) \( \frac{W}{Y} \) Sp. Prerequisite: Consent of instructor. Lecture 3 hours.

Nutrition

Hahn Advanced clinic in teaching literature related to pregnancy and infant nutrition. Concepts and principles related to pregnancy and infant nutrition will be covered in the clinic. Consent of instructor is required. FAM HETH

166. Nutrition in Dental Hygiene. (2) \( \frac{F}{E} \) F lecture 2 hours. Staff

Levine Review of biochemical principles of nutrition related to development and maintenance of oral tissue, and the interrelationship of diabetes, heart disease and cancer. Staff

150. Counseling for Prev Dentistry. (1) \( \frac{F}{W} \) Sp. Prerequisite: Second-year standing in dental hygiene. Nutrition 150B. Lecture 1 hour. Laboratory 1 hour. Enrollment limited. Staff

Guzman Social interactions with patients in dental hygiene, with emphasis on dental clinic patients. Students will participate in developing educational, preventive program planning, and patient counseling. FAM HETH

140.01. Advanced Ob Gyn Clerkship-C. (1) \( \frac{W}{Y} \) Sp. Prerequisite: Obstetrics and Gynecology 110 and consent of instructor and chairperson of the department. Staff

Obstetrics, Gynecology and Reproductive Sciences

110. Ob Gyn Core Clerkship. (3) \( \frac{V}{V} \) per week. F, W, Sp. Prerequisite: Medicine 132A-B. Staff

Guzman The clerk functions in the role of an acting resident on the gynecology service. Responsibilities are primarily on the inpatient service, although there will be both ambulatory and nonurgent aspects of gynecologic oncology, endocrinology, infertility, and general gynecology. OB GYN R S

140.08. Ob Gyn Preceptorship. (1) \( \frac{V}{V} \) per week. Consent of instructor and chairperson of the department. Staff
Clinical experience in a subspecialty area or general obstetrics and gynecology under the direction of a member of the faculty OB GYN R5

150.01. Research in Obst Gyn & Repro Sci. (3) per week; Su, F, W. Prerequisite: Consent of instructor and chairperson of the department.

A staff member of a research project under direction of a member of the faculty OB GYN R5

170.01. Sociocultural Aspects of Nutr. (1) W Lecture 1 hour. Seminar 1 hour; J. Roberts

A survey of the social, cultural and psychological factors that determine food behavior in the individual. Lectures, discussion and readings will identify barriers to healthy food choices. Communication skills and group discussion will develop practical applications for the provision of nutritional care. OB GYN R5

188. Supervised Study. (1-5) Su, F, W. Prerequisite: Consent of instructor. Staff

Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. OB GYN R5

199. Laboratory Projects. (1-5) Su, F, W. Prerequisite: Consent of instructor. Staff

A laboratory research project under direction of the chairperson of the department with the approval of the chairperson of the department. OB GYN R5

222. Reproductive Endocrinology Sem. (1) F, W. Prerequisite: Consent of instructor. Subintern time and approval of the chairperson of the department.

Seminar presentations in areas of current interest in reproductive endocrinology under the direction of the Reproductive Endocrinology Center. Students will be required to submit a term paper. Course may be repeated for credit. OB GYN R5

225. Reproductive Endocrinology. (2) F W. Prerequisite: Consent of instructor. Lecture 2 hours. Minimum of 6 students. R. Wu, J. R. McErlane. Directed and assigned reading for reproductive endocrinology of the male and female. Topics include structure, function, and regulation of the hypothalamic, pituitary, and gonadal hormones, with special emphasis on the human. OB GYN R5

231. Hormone Receptor Binding. (2) F W. Prerequisite: Consent of instructor. Lecture 2 hours.

An in-depth assessment of the characterization of hormone receptor interactions by ligand binding methods. Lectures, assigned readings, and problems will focus on the theoretical and practical aspects of techniques and data analysis. OB GYN R5

234. Electron Microscopy Techniques. (3) F. Prerequisite: Consent of instructor. Lecture 1 hour. Lab 6 hours. Connell, J. A.

The course is designed to develop basic skills in preparing, using transmission electron microscopy in research. The effects of fixation, dehydration, and such on tissue will be discussed. Students will be expected to carry out the process of preparing electron microscopy specimen. OB GYN R5

400. Staff Conferences. (1) Su, F, W, Pr. Jaife and Staff

Conferences comprised of formal discussion of staff faculty and visiting lecturers. OB GYN R5

401. Surgical Pathology Seminar. (1) Su, F, W. Pr. E. H. Hill, R. Hartley

Seminar includes the presentation of pathology material from the obstetric and gynecologic services with formal instruction and discussions. OB GYN R5


A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. OB GYN R5
130. Basic Orthodontic Techniques. (1) SS. Lecture 1 hour for six weeks. Lab 5 hours for six weeks.

130A. Basic Orthodontic Practice. (1) SS. Prerequisite: Orthodontics 130A. Lecture 1 hour.

130B. Orthodontic Surgery Seminar. (1) SS. Prerequisite: Orthodontics 130A. Seminar 1 hour.

130C. Clinical Observations. (3) R. A. Smith. Prerequisite: Orthodontics 130A. Lecture 3 hours.


132. Preventive Dentistry. (3) R. A. Smith. Prerequisite: Preventive Dentistry 132A. Lecture 3 hours.

133. Operative Dentistry. (3) R. A. Smith. Prerequisite: Operative Dentistry 133A. Lecture 3 hours.

134. Endodontics. (3) R. A. Smith. Prerequisite: Endodontics 134A. Lecture 3 hours.


136. Periodontal Disease. (3) R. A. Smith. Prerequisite: Periodontal Disease 136A. Lecture 3 hours.

137. Prosthodontics. (3) R. A. Smith. Prerequisite: Prosthodontics 137A. Lecture 3 hours.

138. Therapeutics. (3) R. A. Smith. Prerequisite: Therapeutics 138A. Lecture 3 hours.


140. Oral Pathology. (3) R. A. Smith. Prerequisite: Oral Pathology 140A. Lecture 3 hours.

141. Dental Hygiene. (3) R. A. Smith. Prerequisite: Dental Hygiene 141A. Lecture 3 hours.

142. Dental Assisting. (3) R. A. Smith. Prerequisite: Dental Assisting 142A. Lecture 3 hours.

143. Dental Materials. (3) R. A. Smith. Prerequisite: Dental Materials 143A. Lecture 3 hours.

144. Dental Radiology. (3) R. A. Smith. Prerequisite: Dental Radiology 144A. Lecture 3 hours.

145. Dental Anesthesia. (3) R. A. Smith. Prerequisite: Dental Anesthesia 145A. Lecture 3 hours.

146. Dental Public Health. (3) R. A. Smith. Prerequisite: Dental Public Health 146A. Lecture 3 hours.

147. Dental Administration. (3) R. A. Smith. Prerequisite: Dental Administration 147A. Lecture 3 hours.

148. Dental Ethics. (3) R. A. Smith. Prerequisite: Dental Ethics 148A. Lecture 3 hours.

149. Dental Law. (3) R. A. Smith. Prerequisite: Dental Law 149A. Lecture 3 hours.

150. Dental Research. (3) R. A. Smith. Prerequisite: Dental Research 150A. Lecture 3 hours.

151. Dental Practice. (3) R. A. Smith. Prerequisite: Dental Practice 151A. Lecture 3 hours.

152. Dental Economics. (3) R. A. Smith. Prerequisite: Dental Economics 152A. Lecture 3 hours.

153. Dental Education. (3) R. A. Smith. Prerequisite: Dental Education 153A. Lecture 3 hours.

154. Dental Psychology. (3) R. A. Smith. Prerequisite: Dental Psychology 154A. Lecture 3 hours.

155. Dental Sociology. (3) R. A. Smith. Prerequisite: Dental Sociology 155A. Lecture 3 hours.

156. Dental Sociology. (3) R. A. Smith. Prerequisite: Dental Sociology 156A. Lecture 3 hours.

157. Dental Administration. (3) R. A. Smith. Prerequisite: Dental Administration 157A. Lecture 3 hours.

158. Dental Public Health. (3) R. A. Smith. Prerequisite: Dental Public Health 158A. Lecture 3 hours.

159. Dental Research. (3) R. A. Smith. Prerequisite: Dental Research 159A. Lecture 3 hours.

160. Dental Economics. (3) R. A. Smith. Prerequisite: Dental Economics 160A. Lecture 3 hours.

161. Dental Education. (3) R. A. Smith. Prerequisite: Dental Education 161A. Lecture 3 hours.

162. Dental Psychology. (3) R. A. Smith. Prerequisite: Dental Psychology 162A. Lecture 3 hours.

163. Dental Sociology. (3) R. A. Smith. Prerequisite: Dental Sociology 163A. Lecture 3 hours.

164. Dental Administration. (3) R. A. Smith. Prerequisite: Dental Administration 164A. Lecture 3 hours.

165. Dental Public Health. (3) R. A. Smith. Prerequisite: Dental Public Health 165A. Lecture 3 hours.

166. Dental Research. (3) R. A. Smith. Prerequisite: Dental Research 166A. Lecture 3 hours.

167. Dental Economics. (3) R. A. Smith. Prerequisite: Dental Economics 167A. Lecture 3 hours.

168. Dental Education. (3) R. A. Smith. Prerequisite: Dental Education 168A. Lecture 3 hours.

169. Dental Psychology. (3) R. A. Smith. Prerequisite: Dental Psychology 169A. Lecture 3 hours.

170. Dental Sociology. (3) R. A. Smith. Prerequisite: Dental Sociology 170A. Lecture 3 hours.

171. Bioceramics. (3) R. A. Smith. Prerequisite: Bioceramics 171A. Lecture 3 hours.

Orthopaedic Surgery

Orthopaedics program. Lab variable. Clinic 21 (Elective 0) - 0.5 FTE, Prerequisite: Orthopaedics 1701A-B.

Continuation of Orthopaedics 1701A-B C-D-E.

Core Clerkship


Various concepts of ovulation will be eval-
uated as they affect hamification and functional problems of the temporo mandibular joint.

GR DEVL.

Orthopaedic Surgery

First-Year Coordinated Instruction—Medicine 131A-B/C. Lecture-demonstrations and section work devoted to the supervised examination of patients. Students are assigned to palpate and out- patient services, receive instruction and ex- plore the physical findings, and treat patients. Attention in surgery and use of treatment modalities are required. Clinical demonstrations, seminars, and conferences form the basis for didactic instruction. ORTHO Surg.

140.02. Off-Campus Clerkship. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 116.

Orthopaedic surgery clerkships are offered in out-of-town hospitals approved by the chairperson of the department and the dean. ORTHO Surg.

140.03. Rehabilitation Medicine—RADMC, 121, 122, 123, 124, 125. (6 per week) Su, F, W, Sp. Prerequisite: Medicine 110 or Pediatrics 110. Specch.

Course will provide knowledge and skills in electrodiagnosis, neurologic rehabilitation, gait, orthopedic surgery, rehabilitation medicine, neuromuscular diseases, and orthopedic surgery. ORTHO Surg.

180. Supervised Study. (1-5 Su, F, W. Prerequisite: Consent of instructor.)

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139. Supervised Study (1-5) W, F, Sp. Pre- requisite: Consent of instructor.

R. Schindler

Library research and directed study. Under direction of a faculty member the student will review a body of research literature and prepare a written report. Prerequisite: Experimental Psychology I.

139. Laboratory Projects (1-5) W, F, Sp. Pre- requisite: Consent of instructor.

Merzenich

A laboratory research project under di- rection of a member of the faculty with the approval of the chairman of the department. OTO-LARYN

140. Didactic Lectures. (2) W, F, Sp. OTO-LARYN

Lectures cover the anatomical, physiolog- ic, and clinical aspects of oto-laryngology.


A formal course in the anatomy of the head and neck.


A review of ear, nose, and throat pathology from currently available gross and microscop- ic surgical-pathological material from the op- erating rooms and pathology laboratories.

140. Staff Rounds. (2) W, F, Sp. Boles

Weekly seminars are held with discussion of current problems concerning diagnosis and management of patients with references to current literature, modern theory, and controversial aspects. OTO-LARYN


UC OWEAS

This course includes psychophysical mea- sures in the ear, nose, and throat. It includes background in audiology, basic and advanced voice and speech sounding, function of the hearing aids, testing of children, adult re- habilitation, and speech and hearing problems of children and adults. OTO-LARYN

406. Tumor Conference. (1) Su, W, F, Sp. OTO-LARYN

Conference includes presentation of pa- tients, studies of history, and discussion of the treatment of the patient in light of modern progress in the field. OTO-LARYN


C. CRANFORD

Basic science and clinical aspects of cos- metic and reconstructive surgery and reconstruction of the head and neck are covered in a weekly one-hour seminar. Slide presentations, vivid- oscope movies, didactic lectures, and anatomic reconstructions constitute the curriculum. OTO-LARYN


A laboratory course conducted in the ear, nose, and throat pathology laboratory. All resident staff members are required to familiarize themselves thoroughly with the mi- croscopic anatomy of the temporal bone un- der formal staff instruction. OTO-LARYN


J. Ross

Tumor cases are presented for diagnosis and recommendations for treatment. OTO-LARYN


U. J. Ross

Combined Audiology and Speech Pathology Staff Conference where all patients evaluated for hearing problems are presented, and diag- nostic and treatment recommendations are made. OTO-LARYN


Residents, under supervision, are respon- sible for patient care in the wards and out- patients clinics including history-taking, phy- sical examination, laboratory tests, preoperative and postoperative care, minor surgical, an- aesthesiology, vestibular testing, and consultations. Senior resident has certain administrative, teaching, and clinical responsibilities. OTO- LARYN


B. Bolos

A study of the techniques of endoscopy and some practical laboratory study including cadaver work. OTO-LARYN

190. Clinical Otosclerosis Surgery—Sphyg (1v per week) Su, F, W, Sp. WILDEN

Intrauterine, under supervision of the attending staff, are responsible for patient care on wards and in the follow-up clinic. including history- taking, examination, and consultation. This rotation is combined with patient care as- signed in the Otolaryngology Service of OTO-LARYN

Parasitology

135. Medical Parasitology. (3) W Lecture 2 hours. Lab demonstration 2 hours.

HEYSERMAN and Staff

An introduction to the protozoa, helminths, and arthropods that parasitize man. Parasite control and disease epidemiology, clinical and diagnostic aspects of parasite diseases are taught. Prerequisites: Parasitology I and Laboratory Emphasis in the laboratory are an demonstration. EPID. ENT.

Pathology

101. General & Systemic Pathology. (5) F Pre requisite: Substantive courses in anatomy, biochemistry, physiology, histology, microbiology. Prerequisite: Consent of instructor. Current enrollment in Medicine 132A. If in doubt as to adequacy of preparation, consult the instructor. Lecture 3 hours. Lab 2 hours.

FRIEND, MAGARETSEN and Staff

Mechanisms and language of disease are discussed, with emphasis on cell and tissue in- flammation, infectious agents, repair, regen- eration, hemorrhagic degenerations, neo- plasms. Critical review of clinical- pathological classification of diseases as they affect the heart and blood vessels and major organ systems are pre- sented. OTO-LARYN

102. Systemic Pathology. (5) F Pre repreh- iquest: Substantive courses in anatomy, biology. Prerequisite: Consent of instructor. Lecture 6 hours.

M. WARNock and Staff

Recent advances and classical concepts of diseases as they affect the following organ systems are presented: pancreas, liver, central nervous system, kidney, endocrine system, skin, muscle, bone, integument, reproductive and morphological charateristics of diseases of organ systems. OTO-LARYN

103. Clinical Pathology. (5) F Pre repreh- isue: Substantive courses in anatomy, biology. Prerequisite: Consent of instructor. Lecture 6 hours.

M. WARNock and Staff

Recent advances and classical concepts of diseases as they affect the following organ systems are presented: pancreas, liver, central nervous system, kidney, endocrine system, skin, muscle, bone, integument, reproductive and morphological charateristics of diseases of organ systems. OTO-LARYN


M. WARNock

Performance of one to two autopsies. Em- phasis will be on review of normal anatomy and the disease process using seminal and descriptive descriptions of pathologic material. Objective of the course is to provide a better understanding of clinical pathological correlations. OTO-LARYN


SMACKEL

Clinical clerkships in off-campus hospitals approved by the chairperson of the depart- ment and the dean. OTO-LARYN

105. Pathology Clerkship: Cardiology, GI (1) per week) Su, F, W, Sp. Preprequisites: Pathology 102 and consent of instructor.

MCKAY, MARGARETSEN, HOWES

Students prepare surgical specimens, per- form autopsies or supervise, and participate in teaching conferences. OTO-LARYN


Careers

Students work closely with the faculty and house staff in the performance of autopsies and in the diagnostic work-up of surgical patients. They actively participate in de- terminantal conferences and seminars. OTO- LARYN

140. Surgical Pathology—MICC (1) per week) Su, W, Sp. Preprequisites: Pathology 102 and consent of instructor.

H. M. Price, BEZAMALINOV

Clinicopathology is designed to acquaint students with available techniques of tissue analysis from light microscopic to micromolecular levels, and their application to diagnosis and surgical care. Experience includes postmor- tem examination, review of surgical and necropsy material, electron microscopy, etc. OTO-LARYN

140. Clinical Cytology. (3) F Preprequisites: Anatomy 102, Pathology 101 and 102.

E. KING, E. HILL

Lectures on basic fundamentals of normal cells, malignant cells, abnormal cells, nonmalignant cells, collection of material and methods. Microscopic examination of spec- imens and correlation of cellular and tissue pathology. Review of clinical pathological correlations on examination of the patient. OTO-LARYN


Lecture of current and clinical pathological aspects of current cases of renal disease. New material presented during each session of the conference year; therefore, course may be repeated for credit.


Staff
Clinical clerkship in off-campus hospitals supervised by the chairman of the depart- ment and the dean. PEDIATRICS

140.03. Outpatient Pediatrics—HC (1% per week) Su, F, W, F, F, P. Prerequisite: Medicine 110 and Pediatrics 110. 
McCann Experience caring for sick and well children with 27,000 patient visits per year. Preventive medicine and anticipatory guidance along with principles of growth and development. All activities closely supervised by either senior residents or faculty. Daily morning conferences, chart rounds, assigned readings. PE-
DIATRICS.

140.04. Pediatric Cardiology (1% per week) Su, F, W, F, Prerequisite: Medicine 110 and Pediatrics 110. Open to UCSC students only.
Robison Experience in clinical evaluation of children with congenital abnormalities is emphasized. Major daily ward rounds on pediatric cardiology patients, attendance at designated surgical procedures, catheterization, weekly catheterization conference, extensive reading assignments, and daily attendance in private office setting are included. PEDIATRICS.

140.06. Pediatric Private Practice (1% per week) Su, F, W, F, Prerequisite: Medicine 110 and Pediatrics 110. Consists of instructor. Open to UCSC students only.
S. J. Smith Working experience with a pediatrician at the medical staff of the California Pacific Medical Center. Includes time in hospital in the inpatient and the student. May select time in small group, large group or sub-specialty practice, or a combination of these. PEDIATRICS.

140.06. Adolescent Medicine (1% per week) Su, F, W, F, Prerequisite: Medicine 110 and Pediatrics 110. 
Garels Clinical clerkship in adolescent medicine with emphasis on outpatient clinical expe-
rience in a wide range of health problems of the adolescent. PEDIATRICS.

140.07. Developmental Pediatrics in Fresno (1% per week) F, W, F, F, Prerequisite: Medicine 110. 
D. M. Snyder Study and identification of infants and children with developmental disabilities and their re-
mediation to allow for achievement of their genetic potential. Various settings are used in acquiring skills in developmental assess-
ment. PEDIATRICS.

140.08. Outpatient Pediatrics—AZ (1% per week) E, W, F, Prerequisite: Medicine 110 and Pediatrics 110.
J. E. Anderson, J. D. Bergman Students participate as members of an active pediatrician's team in the ambulatory pedi-
atria program with Children and Youth Project. Night call includes pediatric E.R. and inpatient ex-
perience. Students will follow patients from their intake on the inpatient service PE-
DIATRICS.

140.09. Child Neurology (1% per week) Su, F, W, F, Prerequisite: Medicine 110 and Pediatrics 110.
Berg Supervised participation in clinical activities, both inpatient and outpatient, and all regularly scheduled conferences of the Child Neurology rotation. Study of the developing nervous system and diseases of the nervous system affecting infants, children, and adolescents. PEDIATRICS.

140.10. Hematology & Oncology (1% per week) Su, F, W, F, Prerequisite: Medicine 110 and Pediatrics 110. Consists of instructor. Open to UCSC students only.
Barnett Students participate in outpatient clinic, inpatient evaluation of blood and bone marrow specimens at UC, SFCH, and CHIJ Hospital. Pursue special interests in the clinic or laboratory setting. PEDIATRICS.

140.11. Cardiology—CHMC (1% per week) Su, F, W, F, Prerequisite: Medicine 110 and Pediatrics 110.
Higashino Students participate in clinical experience including outpatient evaluation, instruction in the nonsurgical methods of diagnosis, care of the critically ill, and support of the pediatric cardiology laboratory, and cardiovas-
dular conferences. Emphasis is on the phys-

Zoger, M. Abbott Advanced clerkship on the general medical-
surgical pediatric inpatient unit. Family cen-
tered care emphasized through the Care With-
Parent Program. Night call includes pediatric E.R. experience. PEDIATRICS.

140.13. Endocrinology—UC (1% per week) Su, W, F, Prerequisite: Medicine 110 and Pediatrics 110.
Grunbach, S. L., Kaplan, F, Conte Participation in the clinical and investigative experience of the pediatric endocrine laboratory in children. Students spend time in the lab-
ary as well as in the wards, and in the clinics. PEDIATRICS.

Olney Work under the direction of the instructor in Diabetes Center. Participates in various aspects of diabetes. Students have an oppor-
tunity to work part-time caring for diabetics in and Newborn Intensive Care Unit, and in round-the-clock experiences conducted by senior pedi-
atria staff. PEDIATRICS.

140.15. Oncology—UC (1% per week) F, W, F, Prerequisite: Medicine 110 and Pediatrics 110. 
Consort of instructor. 

Glanzman Students participate in the clinical care of children. Experience with various ill-
nesses and disorders seen in the Pediatric Specialty Clinics. A wide variety of child care problems will be seen during visits to offices of pediatric subspecialists in various PEDIATRICS.

140.17. Genetics—UC (1% per week) Su, F, W, F, Prerequisite: Medicine 110 and Pediatrics 110. Consortium of instructor. 


140.19. Neonatal Care C—(1% per week) Su, W, F, Prerequisite: Medicine 110 and Pediatrics 110. Consior of instructor.

140.20. Neonatal Care—CHMC (1% per week) F, W, F, F, Prerequisite: Medicine 110 and Pediatrics 110. Consortium of instructor.


140.22. Outpatient Pediatrics—CHM (1% per week) Su, W, F, F, Prerequisite: Medicine 110 and Pediatrics 110. Consortium of instructor.

140.23. Ophthalmology, C—(1% per week) Su, W, F, Prerequisite: Medicine 110 and Pediatrics 110. Comsor of instructor.

Hilara Students participate in the care of patients in the intensive care nursery in close assoc-
iation with the house staff, fellows, and senior staff and in conferences conducted by senior pedi-
atria staff. PEDIATRICS.


140.25. Devel. & Behavioral Peds—Maz (1% per week) Su, W, F, F, Prerequisite: Medicine 110 and Pediatrics 110. Gorksi and Staff
170.1A-B-C-D. Periodontics. (0.5-0.5, 0.5-0.5, 0.5-0.5, 0.5-0.5) F, Sp. Credit with laboratory.

Staff

Clinical experience in comprehensive care of patients with congenital or hereditary anomalies. Management of rampant carries and techniques of instruction in home care and caries control. Current techniques in pa-

tient management and pain alleviation. Rec-

ognition and care for patients on the ward and in the operating room, using a general anesthe-
a.

176. Advanced Clinical. (0.5) F, Sp. Prerequisite: Periodontics 170.1A-B-C-D. Clinic 0.5-1 hour.

B. A. Smith

Continuation of Periodontics 170.1A-B-C-

D. G. DIESEL.

P. B. Vachon

M. E. G. B. D.-E. Pediatric Seminars. (0.3, 0.3, 0.3, 0.3, 0.5) F, Sp., SS1, SS2, Seminar 3 to 6 hours.

A variety of pediatric patients is discussed through documented case history presenta-
tions. Current and classical literature on Periodon-
tics and allied specialty areas is reviewed.

G. DIESEL.

173. Community Outreach. (0.6) S. Prerequisite: Periodontics 170.02A-B. Clinic 6 hours.

Students provide dental care for a non-

English speaking migrant population, utilizing facilities of the mobile clinic. G. DIESEL.

175. Pediatric Seminars. (0.3) F, Sp. Seminar 3 hours.

A variety of pediatric patients is reviewed through documented case history presenta-
tions. Current and classical literature on pe-

riodontics and allied specialty areas is re-

viewed. G. DIESEL.

176. Pediatric General Anesthesia. (0.3) F, Sp. OHC. 90 hours.

K. Schroeder and Staff

An introductory course in general an-

esthesia to familiarize the student with the general anesthesia the attendant problems and risks,

the agent used, and methods of delivery. Lecture 1 hour. Experience under close supervision. G. DIESEL.
therapeutic procedures can be based. PERIOD:

180. Periodontics in General Practice. (1) W Lecture 1 hour. Discussion of procedures for the prevention of periodontal disease and their implementation in the primary care environment. PERIOD: 2

180.02A-B. Periodontal Literature. (1-1) F W Prerequisite: Periodontics 151 and consent of instructor. Seminar: 2 hours. Study in depth, with literature review and seminar discussion of areas of periodontal research having major clinical significance. PERIOD: 1

180.03. Periodontal Surgical Techniques. (1) E Prerequisite: Periodontics 151. Seminar: 1 hour. Surgical techniques are presented which may be used to treat lesions occurring in hard and soft tissues of the periodontium. PERIOD: 1

199.01. Clinical Periodontics. (0.50) F W. Sp. Prerequisite: Periodontics 109. Clinic for Continuation of clinical experience beyond the level of Periodontics 109. PERIOD: 2

199. Laboratory Projects. (1-1) E W. Sp. Pr. Staff A laboratory research project under direction of a member of the lab hour. with the approval of the chairperson of the department. PERIOD: 1

2018-B-C. Experimental Design. (0.5, 0.5, 0.5) F W. Sp. Lecture 9 hours Lab. 0.5 hours. Prerequisite: Statistics 14. Elements of experimental design, hypothesis testing, and analysis of variance. PERIOD: 1

2018-D. Basic Chemistry of Disease. (2-2) E W Prerequisite: Biochemistry 100B or equivalent introduction to biochemistry. Lecture 2 hours. Seminar 1 hour. Course reviews students to the principles of biochemistry and molecular biology in relation to current concepts in the molecular basis of major disease entities including both genetic and non-genetic disorders, psychiatric and metabolic disorders, fibrotic and inflammatory processes, and neoplastic processes, and wound healing. PERIOD: 1

209. Literature Review. (2) F W. Sp. Seminar 2 hours. Seminar designed to correlate basic sciences with problems in periodontiology and evaluate concepts in the direction of research, clinical application, and teaching. Selected papers in the literature are reviewed and evaluated. Other instructors are invited to participate. PERIOD: 2

Pharmacology

120. Principles of Pharmacology. (3) F W Prerequisite: Chemistry 113. Lecture 5 hours. Ortiz de Montellano A study of pharmacology and the basic principles of pharmacology as it relates to the use of drugs and related organic compounds. PHARM CHEM

121. Chem and Bio Correlation. (2) W Prerequisite: Pharmacology 120. Lecture 4 hours in Pharmacology 121. Lecture 2 hours. S. Kahl A systematic survey of the chemical features of synthetic drugs, including correlations between chemical structure and biological activity. Topics included: drugs on steroids, hormones, and drugs for mental disorders. PHARM CHEM

122. Autoimmune & Cardiovasc Drugs. (3) A Prerequisite: Biochemistry 120. Lecture 3 hours. Brochmann-Hanssen General principles of the basic science of autoimmune and cardiovascular drugs. PHARM CHEM

156. Pharmaceutical Analysis. (2) Sp. Lab 6 hours. Experiments in pharmaceutical analysis Applied dye reagents, dosage forms and samples of biological origin. PHARM CHEM

157. Biostatistical Theory & Technique. (3) W Lecture 2 hours. Lab 5 hours. Sadee, E. Lin An analytical theory and techniques for determination of drugs in biological fluids. PHARM CHEM

158. Radioisotope Measurements. (1) F W Prerequisite: Pharmacology 152 or consent of instructor. Lab 3 hours. Measurement and detection of radioisotopes commonly used in biology and medicine. PHARM CHEM.


162. Radioisotope Imaging. (1) Sp. Prerequisite: Pharmacology 152 or consent of instructor. Lab 1 hour. A review of techniques and the use of radiopharmaceuticals in imaging. PERIOD: 1

170. Group Studies. (1-4) E W. Sp. Pre- requirement: Consent of instructor. Students in groups of two or more will conduct an experiment in the laboratory. PHARM CHEM

199. Supervised Study. (3-5) F.W. Sp. Staff Library research and directed rendering under supervision of a member of the faculty with the approval of the chairperson of the department. PERIOD: 1

199. Laboratory Project. (1-5) F W. Sp. Staff A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. PERIOD: 1

200. Phys Chem Prop & Biol Activity. (2) W Prerequisite: Consent of instructor. Lecture 1 hour. Lectures and conferences dealing with the relationship between physical properties and biological activity, with special emphasis on the use of molecular orbital calculations in this connection. PHARM CHEM

211. Kinetics of Drug Absorption & Disposition. (3) F W Prerequisite: Chemistry 115. Calculus background is recommended. Lecture 2 hours. Lab 3 hours. Wei, C. Hsueh A basic study of the concentration-time variables of drugs, and in metabolic pathways, methods of pharmacokinetic analysis and the design of dosage regimen. Laboratory emphasis on the manipulation of data and biological action for major drug classes. KWON, K. Langage The basic principles of medicinal chemistry and the design of the optimal method for disposition of drugs. PHARM CHEM

220. Molecular Correlation. (2) F W. Prerequisite: Consent of instructor. Lecture 2 hours. Konje, B. K. Langage A review of protein and nucleic acid structure. Emphasis on the general principles which govern secondary and tertiary structure, and with an introduction to the current approaches to the study of protein and transfer RNA. PHARM CHEM

205. Drug Metabolism. (2-5) Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Kwun, K. Laugage A study of the metabolic and biochemical transformation of foreign compounds with particular emphasis on drugs. When possible, animal models for xenobiotic metabolits are considered. PHARM CHEM

206. Advanced Survey of Pharmaceuticals. (2) F W. Lecture 2 hours. Benjamin, S. H. Staff Basic principles underlying the area of pharmaceuticals directed at the needs of graduate students specializing in pharmaceutical sciences. PHARM CHEM


A three-quarter sequence of courses in computer programming with emphasis on the biological and chemical aspects. PHARM CHEM

215. Kinetics of Drug Absorption & Disposition. (3) F W Prerequisite: Chemistry 115. Calculus background is recommended. Lecture 2 hours. Lab 3 hours. Wei, C. Hsueh A basic study of the concentration-time variables of drugs, and in metabolic pathways, methods of pharmacokinetic analysis and the design of dosage regimen. Laboratory emphasis on the manipulation of data and biological action for major drug classes. PHARM CHEM

216. Kinetics of Drug Absorption & Disposition. (3) F W Prerequisite: Pharmacology 215 and Bioethics 202 or equivalents Lecture 2 hours. Lab 2 hours. Kwun, K. Langage Advanced consideration of pharmacokinetics including multicompartment models, assessment of intrinsic absorption and disposition parameters, and correlation of pharmacologic response with the concentration-time course of a drug. Laboratory will include analog and digital computation methods. PHARM CHEM

217-A-B-C. Advanced Pharmaceutics. (2, 2, 2, 2, 2) E F W. Prerequisite: Physical chemistry or consent of instructor. Lecture 3 hours. Advanced topcis in pharmaceuticals. PHARM CHEM

219. Enzyme Mechanisms. (2.5) F or Sp. Lecture 2.5 hours. Kenyon, S. Staff...
Selected topics on enzyme mechanisms. Generation of free radicals from carbyl acid-base catalysis, propiophyly effects, strain and conformational change. Covariant inter- mediates in enzyme catalysis and the role of cofactors in enzyme catalysis. Phosphoryl transfer reactions. PHARM CHEM 220. Research Conf in Pharmacometrics. (1) F W. Sp. Lecture 1 hour. Staff A survey course involving the presentation of recent core material in pharmaceutical chemistry in the pharmacometrics pathway. The presentations are made by graduate students and examination is by a series of cumulative examinations. PHARM CHEM 221. Research Conf in Pharm Chem. (1) F W. Sp. Prerequisite: Graduate standing in the field of Pharmaceutical Chemistry Lecture 1 hour. Kenyon Articles of weekly research colloquia in medicinal chemistry given by visiting lecturers, faculty and advanced graduate students. PHARM CHEM 222. Physical Chemistry Seminar. (1) W. Sp. Prerequisite: Consent of instructor Lecture 1 hour. Kunze and Staff Topics of current research interest in physical chemistry. PHARM CHEM 230A. Spectroscopy. (3) Sp. Prerequisite: Chemistry 162 or equivalent. Lecture 3 hours. Staff The theory and application of molecular electronic and vibrational spectroscopy, optical rotatory dispersion and circular dichroism. PHARM CHEM 230B. Spectroscopy. (3) W Sp. Prerequisite: Chemistry 162 recommended. Lecture 3 hours. Kunze and Staff Theory and application of nuclear magnetic resonance and electron spin resonance, mass spectrometry. PHARM CHEM 230C. Spectroscopy. (1-2) W Lab 3 hours. T. James Laboratory work in nuclear magnetic res- onance, electron spin resonance, mass spectrometry. PHARM CHEM 231. Spectroscopy. (1-6) F Prerequisite: Pharmaceutical Chemistry 230B Lecture 1-4 hours. T. James Selected topics in spectroscopy and related areas. PHARM CHEM 253. Mass Spectrometry in Life Sci. (2) F Prerequisite: Consent of instructor. Lecture 2 hours. Bourligue Elicudization of molecular structure, char- acterizations of mixtures, and quantitative measurements. Presentation of basic tools, concepts, and strategies in the complementary usage of currently available techniques in present biochemical and biomedical research. PHARM CHEM 240. Radiochemical Synthesis. (1-2) F W. Sp. Prerequisite: Consent of Instructor Lab 2 hours. PHARM CHEM Theory and techniques related to the syn- thesis of isotopically labeled organic com- pounds. Course may be repeated for credit. PHARM CHEM 241. Radiobiophysical Analysis. (1) W Prerequisite: Consent of Instructor. Lab 3 hours. Peng Experimental techniques related to various aspects of radiobiology of biological specimens, and biological dosimetry labeled with tritium and/or radiocarbon. PHARM CHEM 242. Radiation Dosimetry Methodology. (1) W Prerequisite: Pharmaceutical Chemistry 152 or 306 or consent of instructor. Lecture 3 hours. T. James and Staff Discussions on the theory and principles in the study of radiation dosimetry trace-ing systems. Emphasis is on the design of experiments and data evaluation. PHARM CHEM 243. Effects of Ionizing Radiation. (1) S Prerequisite: Consent of instructor. Lecture 2 hours. Peng, J. W. Harris, Palmer Effects of ionizing radiation on chemical and biological systems will be discussed. PHARM CHEM 250. Research. (1-6) F W. Sp. Staff PHARM CHEM 260. Computer Graphics. (3) Sp. Prerequisite: Experience in programming and consent of instructor. Lecture 2 hours. Lab 3 hours. Langridge, Perrin Application of interactive three-dimensional computer graphics to modeling complex bio- logical systems, particularly large molecules and their interactions. Elements of hardware and software for a terminal and a computer graphics laboratory. PHARM CHEM 266. Research Planning Conference. (1) F W. Sp. Prerequisite: Consent of instructor Lecture 1 hour. Kunze and Staff Discussion and practice in research prob- lem formulation and design selection. Core classes and small group sessions are organized around students' interests by faculty within the area of specialization. PHARM CHEM 298. Thesis. (0-6) W Sp. Prerequisite: Approval of advisor and permission of the graduate adviser. Staff for graduate students in writing the thesis for the master's degree. PHARM CHEM 299. Dissertation. (0-6) W Sp. Prerequisite: Approval of advisor and permission of the graduate adviser. Staff for graduate students in writing the dissertation for the Ph.D. degree. PHARM CHEM 126B-C. Dental Pharmacology. (2-4) F W. Sp. Prerequisite: Physiology 110. Lecture 2 hours W 3 hours Lab 5 hours. Burkhart, Correia Objective of the course is to acquaint dental students with the fundamentals of pharmacology. Various classes of drugs are examined in regard to actions, uses, failures, elimination, and toxicity. A useful in dustry emphasis is emphasized. PHAR- MACOLOGY 130. Clinical Toxicology. (2) Sp. Prerequisite: Pharmacology 125 and 156. Lecture 2 hours. Correia, Burkhart The course covers covering various classes of pharmacology and toxicology. PHARM CHEM 138. Preclinical Toxicology. (2-4) W. Sp. Prerequisite: Repeatable for credit. Staff Library research and directed reading under supervision of a member of the faculty with the approval of the chairman of the de- partment. PHARM CHEM 139. Laboratory Project. (1-5) F W. Sp. Prerequisite: Repeatable for credit. Staff A laboratory research project under di- rect supervision of the faculty with the approval of the chairman of the department. PHARM CHEM 200A-B. Medical Pharmacology. (1) F W. Sp. Prerequisite: Biochemistry 100A-B and Physiology 120 and 125 or equivalents Lecture 5 hours T. James. Trevor, Faber, Barrier Systematic survey of action and uses of antispasmodics and anti-epileptic drugs. PHARM CHEM 236. Pharmacology. (4) F Prerequisite: Pharmacology 125. Lecture 5 hours Lab 5 hours. Burkhart, E. Way Systematic survey of action and use of drugs acting on the central nervous system. PHARM CHEM 237. Medical and Pharmaceutical Research. (1-4 per week) S, W, F. W. Sp. Prerequisite: Consent of instructor. Lecture and lab to be arranged. Burkhart, E. Way, Telander Students perform individual research in a field of their choice under the guidance and supervision of a member of the faculty. PHARM CHEM 240A-B. Group Studies. (1-4) F W. Sp. Prerequisite: Consent of instructor. Group studies of selected topics in pharmacology. PHARM CHEM 172. Toxicology. (1) F W. Sp. Prerequisite: M. Meyer, Hedge, Bine Course provides information on the clinical and social problems associated with selected environmental agents. PHARM CHEM 183. Special Seminar. (1-5) F W. Sp. Prerequisite: Repeatable for credit. Staff Special seminar covering various aspects of pharmacology and toxicology. PHARM CHEM 188. Supervised Study. (1-5) F W. Sp. Prerequisite: Repeatable for credit. Staff Library research and directed reading under supervision of a member of the faculty with the approval of the chairman of the de- partment. PHARM CHEM 195. Laboratory Project. (1-5) F W. Sp. Prerequisite: Repeatable for credit. Staff A laboratory research project under di- rect supervision of the faculty with the approval of the chairman of the department. PHARM CHEM 200A-B. Medical Pharmacology. (1) F W. Sp. Prerequisite: Biochemistry 100A-B and Physiology 120 and 125 or equivalents Lecture 5 hours T. James. Trevor, Faber, Barrier Systematic survey of action and uses of antispasmodics and anti-epileptic drugs. PHARM CHEM 236. Pharmacology. (4) F Prerequisite: Pharmacology 125. Lecture 5 hours Lab 5 hours. Burkhart, E. Way Systematic survey of action and use of drugs acting on the central nervous system. PHARM CHEM 237. Medical and Pharmaceutical Research. (1-4 per week) S, W, F. W. Sp. Prerequisite: Consent of instructor. Lecture and lab to be arranged. Burkhart, E. Way, Telander Students perform individual research in a field of their choice under the guidance and supervision of a member of the faculty. PHARM CHEM 240A-B. Group Studies. (1-4) F W. Sp. Prerequisite: Consent of instructor. Group studies of selected topics in pharmacology. PHARM CHEM 140 Physical Chemistry.
Pharmacy/Pharmacy Administration/Physical Therapy

medical center which guide the specialists' decisions and establish the sound basis for teamwork treatment between these specialties and physical therapy. Patient present.

Pharmacy/Pharmacy Administration/Physical Therapy

Pharmacy Administration

111. Pharmacy Laws. (2) P. Lecture 2 hours.
J. R. Nielsen
Introduction to court systems and administra-
tions boards and their relationship to the health profession. Discussion of basic prin-
ciples of criminal law, negligence, and business law. Emphasis on the legal relationship and responsibility of the prac-
titioner. Examination of selected topics in

Pharmacy Administration. PHARMACY

110.A-B. Legal Problems in Health Care. (2-2-2) E. W. W. Pre- requisite: Third-year standing. Pharmacy Administration 180A is prerequisite. 180B, and 180B to 180C completion of entire sequence is not required.
J. R. Nielsen
An analysis of the legal responsibilities of those who are trained with students from profes-
sional schools on this campus to investigate the legal problems of their respective dis-
ciplines, with particular emphasis upon the legal implications arising therefrom. PHARMACY

190. Served as an inspector of

Pharmacy Administration. PHARMACY

151. Community Pharmacy Manage-
ment. (4) P. Pre-requisite: Pharmacy 111 or consent of instructor. Lecture 4 hours.
J. R. Nielsen
Principles of management, specially di-
rected toward developing familiarity with current problems peculiar to community pharmacy operation. Emphasis is given to elements in locating, organizing, operating, and adapting a pharmacy. PHARMACY

152. Management of a Laboratory Project. (1.5-1.5) E. W. Sp.
J. R. Nielsen
A laboratory research project under di-
rection of a member of the faculty with the approval of the chairperson of the department. PHARMACY

153. Pharmacology. (3) P. Lecture 3 hours.
J. R. Nielsen
Pharmacology focuses on the study of drugs, their effects, and the use of drugs to treat disease. It is a critical aspect of the healthcare field, as understanding how drugs work and how they affect the body is essential for safe and effective treatment. PHARMACY

154. Clinical Pharmacology. (2) P. Lecture 2 hours.
J. R. Nielsen
Clinical pharmacology is the application of pharmacology to the clinical setting. It involves understanding how drugs are absorbed, distributed, metabolized, and excreted in different patient populations, and how these factors can influence drug efficacy and safety. PHARMACY

155. Pharmaceutical Chemistry. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the chemical principles and processes involved in the formulation and manufacturing of pharmaceutical products, including the chemical and physical properties of drugs and the mechanisms of their action. PHARMACY

156. Pharmaceutical Technology. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the design, development, and production of pharmaceutical products, including the selection and formulation of active ingredients, the processes involved in manufacturing, and the quality control of these products. PHARMACY

157. Pharmaceutical Marketing. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the principles and practices of pharmaceutical marketing, including market analysis, product development, and the strategies used to promote pharmaceutical products. PHARMACY

158. Pharmaceutical Economics. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the economics of pharmaceuticals, including pricing, reimbursement systems, and the financial aspects of drug development and manufacturing. PHARMACY

159. Pharmaceutical Law. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the legal and regulatory aspects of the pharmaceutical industry, including intellectual property, patents, and the development and approval of new drugs. PHARMACY

160. Pharmaceutical Ethics. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the ethical considerations involved in the development, manufacture, and distribution of pharmaceutical products, including issues of patient safety, privacy, and consent. PHARMACY

J. R. Nielsen
This course covers the policies and practices related to the regulation and oversight of the pharmaceutical industry, including the roles of government agencies and the industry itself. PHARMACY

162. Pharmaceutical Safety and Quality. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the principles and practices involved in ensuring the safety and quality of pharmaceutical products, including the design of clinical trials and the assessment of drug safety. PHARMACY

163. Pharmaceutical Manufacturing. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the manufacturing processes involved in the production of pharmaceutical products, including the design and operation of manufacturing facilities. PHARMACY

164. Pharmaceutical Distribution. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the principles and practices involved in the distribution of pharmaceutical products, including the role of wholesalers, retailers, and supermarkets. PHARMACY

165. Pharmaceutical Economics and Policy. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the economic and policy aspects of the pharmaceutical industry, including market access, reimbursement systems, and the impact of policy changes on drug development and pricing. PHARMACY

166. Pharmaceutical Research and Development. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the principles and practices involved in the research and development of new pharmaceutical products, including the design of clinical trials and the assessment of drug safety. PHARMACY

167. Pharmaceutical Business Management. (3) P. Lecture 3 hours.
J. R. Nielsen
This course covers the principles and practices involved in the management of pharmaceutical businesses, including the development of business strategies and the implementation of business plans. PHARMACY

168. Pharmaceutical Graduation Project. (3) P. Lecture 3 hours.
J. R. Nielsen
This course involves the completion of a graduation project, which allows students to apply the knowledge and skills learned throughout their pharmaceutical education to a practical and meaningful project. PHARMACY

Physical Therapy

100. Gross Anatomy. (6) Sp. Pre-requisite: Completion of course prerequisites for ad-
mission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 5 hours. Lab 1 hour.
DeWeese
A fundamental building block of physical therapy is the understanding of the structure of the human body studied through regional and systems dissection, demonstration, surface and cross-
sectional anatomy. PHYS THER

101. Pathology. (3) F. Pre-requisite: Completion of course prerequisites for ad-
mission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course begins a four-quarter series presenting theories, skills, and applications of physical therapy procedures in patient care. Content includes cellular, molecular, and microbiologic processes and mechanisms, and their pertinence to the prevention and treatment of disease. PHYS THER

102. Physiology. (3) F. Pre-requisite: Completion of course prerequisites for ad-
mission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course presents the principles of physiology and function of the human body. Content includes the structural and functional aspects of all body systems, integrating homeostatic control mechanisms and their pertinence to the prevention and treatment of disease. PHYS THER

104b. Physical Therapy Procedures. (5) Sp. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course presents the principles of the major procedures and exercises used in physical therapy, including therapeutic exercise, immobilization, and mobilization. PHYS THER

104c. Physical Therapy Procedures. (5) Sp. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course presents the principles of the major procedures and exercises used in physical therapy, including therapeutic exercise, immobilization, and mobilization. PHYS THER

105. Physical Med & Rehabilitation. (5) F. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course presents the principles of physical medicine and rehabilitation, including the evaluation, treatment, and prevention of conditions affecting the musculoskeletal, nervous, and cardiovascular systems. PHYS THER

106. Basic Medical Procedures. (2) Sp. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course presents the principles of basic medical procedures, including examination and assessment of the musculoskeletal, nervous, and cardiovascular systems. PHYS THER

107. Neuromuscular Physiology. (2) F. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course presents the principles of neuromuscular physiology, including the evaluation, treatment, and prevention of conditions affecting the musculoskeletal, nervous, and cardiovascular systems. PHYS THER

108. Basic Medical Procedures. (2) Sp. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course presents the principles of basic medical procedures, including examination and assessment of the musculoskeletal, nervous, and cardiovascular systems. PHYS THER

109. Physical Med & Rehabilitation. (5) F. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
M. Snyder, Asturias
This course presents the principles of physical medicine and rehabilitation, including the evaluation, treatment, and prevention of conditions affecting the musculoskeletal, nervous, and cardiovascular systems. PHYS THER

110. Specialty Med Mgmt of Disease. (7) F. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
D. Adams
This course covers the principles and practices involved in the management of specific diseases and conditions, including the diagnosis, treatment, and prevention of conditions affecting the musculoskeletal, nervous, and cardiovascular systems. PHYS THER

111. Physical Med & Rehabilitation. (5) F. Pre-requisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Only to students enrolled in the Curriculum, or consent of program director: Lecture 2 hours. Lab 1 hour.
D. Adams
This course covers the principles and practices involved in the management of specific diseases and conditions, including the diagnosis, treatment, and prevention of conditions affecting the musculoskeletal, nervous, and cardiovascular systems. PHYS THER
474. Psychotherapy Videotape Demo. (2) W. F. Sp. Prerequisite: Consent of instructor. Instructor: D. Morrison. Video series will be played back and discussed with second- and third-year residents and other trainees. The material is obtained from a variety of sources, is of high quality and covers research in health psychology, self-regulation and self-control. Required for all residents and junior staff. Instructor: D. Morrison. 475. Growth & Development I. (1) W. Sp. Lecture 1 hour. Required for second-year residents in psychiatry. Instructor: I. Phillipson. A study of the development and changes in psychological functions from birth to re- sidence. Biological aspects of growth rel- evant to psychological functioning are con- sidered. Emphasis is on observational data. PSYCH 476. Psychopathology. (1) W. Sp. Seminar I hour. Required for second-year residents in psychiatry. Instructor: R. Shore. Examination of nervous and character dis- orders from a psychodynamic point of view. PSYCH 478. Intro to Clinical Psychiatry. (3) Su. Seminar 3 hours. Required for second-year residents in psychiatry. Instructor: Staff. Provides an introduction to the psychiatric interview and diagnosis, with em- phasis on psychiatric emergencies. PSYCH 482. Beh Mod in Child Psychopathol. (1) W. Sp. Seminar 3 hours. Required for second-year residents in psychiatry. Instructor: D. Morrison. 483. Res Methodology in Child Psych. (1) W. Sp. Seminar 3 hours. Required for second-year residents in psychopharmacology. Instructor: 1 hour. Required for second-year residents in psychiatry. Instructor: D. Morrison. S. Friedlander. Review of basics of experimental design and methodology such as reliability and va- lidity, diagnostic and measuring techniques, statistical scaling, research data collec- tion, control group designs and pre- post research designs. Clinical research with chil- dren focuses a discussion of research rele- vant issues. PSYCH 484. Psychologies of Other Cultures. (1) W. F. Prerequisite: Current appointment at LPPV as resident in psychiatry, fellow in psychology or consent of instructor. Seminar 2 hours. Instructor: G. Stone. Scotton Examination of other psychologies for their basic assumptions about man and the world. A psychological, religious, cultural, and political perspective is applied. Possible applications to a cross-cultural perspec- tive includes culture, discussion, and suppression of one system by each participant. PSYCH 485. Psychobiology II. (3) W. F. Sp. Seminar 1 hour. Required for third-year residents in psychiatry. Instructor: G. Stone. Seminar explores biochemistry, physiology, and neuroanatomy as related to mental func- tioning and behavior, and applies concepts to the understanding of etiology and biological treatment of psychiatric disorders. Phenomenology and methodology of disciplines and functions and their research for various psychological interventions are discussed. PSYCH 486. Brief Psychotherapy. (2) Su, W. Sp. Prerequisite: Graduate clinical training at the University of British Columbia. Instructor: E. Burke, Ziberg. Review of the literature on psychody- namic psychotherapy with children. The first three quarters of the course will focus on the first half of the semester, and review of completed cases during the second half. PSYCH 487. Development. (1) W. Sp. Prerequisite: Graduate course in physiological psychology and consent of instructor. Seminar 2 hours. Recommended for any field of psychology beginning with infancy. Representative the- oretical models are used with emphasis on actual observation. PSYCH 170. Patient Compliance. (2) F. Lecture 2 hours. Patients' cooperation with health regimens contributes significantly to outcomes of health care. This course reviews factors that affect degree of compliance achieved and examines results of attempts to improve compliance. Stress is placed on tailoring methods to speci- fic patient needs. Required for PSYCH 170.01. Common in Health Transactions. (2) F. Lecture 2 hours. Required for PSYCH 1 lecture hour. Lab 3 hours. Enrollment limited. Instructor: G. Stone. Lectures, role-playing, and video replay will be used to teach social psycho- logical influences on participants in health transactions; communication as joint problem- solving; specific skills of listening and speak- ing; awareness of nonverbal aspects of com- munication. PSYCH 180.01. Seminar in Psychology. (1) W. Prerequisite: Consent of instructor. Instructor: G. Stone. Webside discussions in which students' clinical cases are analyzed by dynamic application of behavioral theory. GEN DENT 182. Psycho-Social Aspects of Treatment Plan. (1) W. Prerequisite: Consent of instructor. Instructor: S. Friedlander. This course integrates students' basic training from the specialty courses in dentistry with knowledge of oral health psychologi- cal concepts necessary to individual treatment. Appropriate treatment may then be planned to the practitioners' awareness of the unique needs of patients. GEN DENT 180.03. Adv Psychol for Dental Hygiene. (2) F. Lecture 2 hours. Required for dental hygiene students. Seminar discussions on the emotional aspects of interpersonal transactions among a wide range of dentists, therapists, and patients. GEN DENT 184. Neuropsychological Mech of EEG. (3) W. F. Prerequisite: Consent of instructor. Instructor: G. Stone. Course in physiological psychology or neurology, or consent of instructor. Lecture 1 hour. Lab 2 hours. Yu Yingling. Course will examine the neuroanatomical and neurophysiological mechanisms under- lying the generation and regulation of EEG and EEG-related potentials, their measure- ment and clinical uses. Emphasis on the nature and limitations of inferences concerning brain activity from the electrophysiologic record. PSYCH 184.02. General Neurophysiology (3) W. F. Prerequisite: Consent of instructor. Instructor: G. Stone. Course will focus on a theoretical under- standing of the origins of job stress and the nature of burnout, and on practical and pro- grammatic methods of reducing the stress overload incurred by physicians, nurses, and other health care professionals. PSYCH 185. Behavior & Medical Care. (1) F. W. Sp. Prerequisite: Experience and/or course work in either research method- ology or clinical theory and interest in the role of the physi- cian as a member of the health care team. Instructor: G. Stone. Weekly discussions in which students' clinical cases are analyzed by dynamic application of behavioral theory. GEN DENT 185.01. Changing Health Behaviors. (2) F. & 2) S. Sp. Seminar 1 hour. 2 hours. Instructor: F. G. Stone. An overview of learning theory and the principles of behavior change. Clinical and research applications of both operant and classical conditioning will be discussed. PSYCH 187.02. Coping with Stress in Med School. (1) F. W. Sp. Prerequisite: Consent of instructor. Instructor: S. Friedlander. Consideration of psychological processes utilized under stress and of alternative con- structive methods for coping which might prove useful in using these techniques. Course is designed to be an alternative to the principles of management of patient PSYCH 190. General Communication. (1) F. Lecture 8 hours given in one day plus research project. In this seminar participants describe their experience from the face and body what people reveal without words about their personality and feelings, and what people are revealing to them. PSYCH 198. Supervised Study. (1-5) F. W. Sp. Prerequisite: Full-time regular faculty member of the faculty with the approval of the instructor. PSYCH 200. Learning & Cognition. (4) W. F. Prerequisite: Graduate standing in Health Psych- ology Program, or upper division courses in learning and cognitive psychology; consent of instructor. Seminar 4 hours. Offered in alternate years. Offered 1983-84. G. Stone. Course provides a basis for continued research in the fields of health learning and cognition, and for designing interventions in health transactions based on analyses of data obtained from questionnaires, interviews, electroencephalography and recordings, and behavioral testing. PSYCH 201. Developing Treatments. (1) W. & 2) S. Seminar 1 hour. Instructor: L. B. Henderson. The development and testing of theoretical models of personality are explored by mean...
213. Theories of Emotion. (1-3) F & W. Prerequisite: Knowledge in in emotion and behavior of at least two substantive areas such as social psychology, personality, abnormal psychology. Seminar 2 hours biweekly.

Ekman, Tenenhouse

Seminars will cover discussion of the theories and research concerned with emotion. such as definitions, expression, behavior, physiological correlates, relationships with cognition, consciousness and cultural and biological implications, and psychoanalytical approaches. Guest speakers included. PSYCH 311.

220. Health Research Seminar. (1-3) F & W. Prerequisite: Consent of instructor. Seminar 3 hours. Offered in alternate years. 1980-84. Atkinson (F), G. Stone (W). Spring (W). Students and instructor will acquaint themselves with current research in health psychology. Presentations of research studies in health care problems and the organization of related issues will be made by students as well as by guest speakers. PSYCH 311.

232. Topics in Biological Psychology. (2) F. Prerequisite: Psychological physiology, neurophysiology and neuroanatomy. Seminar 2 hours. Salwen, Halliday

A seminar course focusing on issues of current interest in biological psychology. The course will be concerned with critical events, human neurodevelopment, cognitive, affective, and behavioral problems of health and health care. PSYCH 311.

238-A & B. Physiol-Biol Psychology Sem. (1-1-3) F & W. Prerequisite: Consent of instructor. Seminar 1 hour. Callaway

An ongoing seminar devoted primarily to the research interests of the group studying human event related potentials. Course includes visits among scientists, as well as presentations by staff and postdoctoral fellows. PSYCH 311.

234. Neurochemical Basis of Abnormal Psychol. (3-1-3) F & W. Prerequisite: Consent of instructor. Seminar 2 hours. Offered in alternate years.

F. Cohen

Course examines stress and coping theory and techniques related to health problems, especially in light of current clinical, field, and laboratory research. Emphasis will be placed on methodological and theoretical considerations, measures of stress, issues in stress research, the nature of coping, and the physiological and psychological processes as investigated through the study of the autonomic nervous system and the electroencephalogram. PSYCH 311.

258-A & B. Human Neurophysiology. (3) F & W. Prerequisite: Consent of instructor. Seminar 1 hour. Yingling

A seminar course for graduate students will examine the current literature in human EEG and evoked potentials, with emphasis on the identification of cerebral sources. Students will make oral class presentations. PSYCH 311.

260. Social Psychology. (4) F. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. 1985-84.

N. Adler

A critical review of social psychological theory and research. Topics include role theory, conformity, perception, social cognition, intergroup relations, social influence, de- cision-making, attitude formation and change, and the relationship of these topics to the problems of health and health care. PSYCH 311.

263. Independent Study. (1-6) F & W. Prerequisite: Consent of instructor. Staff

Independent study under the supervision of a member of the faculty. PSYCH 311.

250. Research (1-8) F & W. Staff

254A. Research Methods. (4) F. Prerequisite: Consent of instructor. Seminar 4 hours. Offered in alternate years. 1985-84.

N. Adler

An overview of research strategies and their associated strengths and weaknesses, experimental and quasi-experimental designs, correlational approaches, interview techniques, survey and questionnaire construction, use of computers, and observational techniques. PSYCH 311.

250B. Research Methods. (4) F. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. 1985-84.

N. Adler

An in-depth study of the research process with emphasis on methodology, ethics of research and grant writing. PSYCH 311.

Jendresen, Tuerkel, D. Graham

An introductory lecture course including some morphology development, form of primary and permanent dentition, and theory of cavity design and preparation. RESTOR DENT 115B.

110B. Intro to Restorative Dentistry. (5) Credit; Restorative Dentistry 115B.

Concurrent enrollment in Restorative Dentistry 115B.

Jendresen, Hamaguchi, D. Graham

Continuation of Restorative Dentistry 110A, including application of individual tooth and arch forms to interarch relationships physics, chemistry, metallurgy of dental materials: physical and chemical effects of gypson, cements, resins, waxes, collodion metals; and clinical procedures to complete denture prosthesis. RESTOR DENT 115B.

115C. Intro to Restorative Dentistry. (4) Credit; Restorative Dentistry 115C.

Concurrent enrollment in Restorative Dentistry 115C. Lecture 4/6 hours. Jendresen, Badke, D. Graham, Firetell

Continuation of Restorative Dentistry 110B. Involves physical and chemical responses to dental materials, principles involved in preparation, design, articulation, mounting, waxing, and coating techniques for fixed prosthodontics, and biological background and clinical application of techniques to complete denture prosthodontics. RESTOR DENT 115C.

115A. Intro to Restorative Techniques. (3) Credit; Restorative Dentistry 115A.

(3) Prerequisite: Concurrent enrollment in Restorative Dentistry 115A. Lab 12 hours.

Jendresen, Hamaguchi, D. Graham

An introductory laboratory course in restorative dental techniques. Includes clinical study of individual tooth form and relationship to opposing arch, materials and opposing arches application of principles involved in cavity design and preparation. RESTOR DENT 115A.

115B. Intro to Restorative Techniques. (6) Credit; Restorative Dentistry 115B.

(6) Prerequisite: Restorative Dentistry 115A. Concurrent enrollment in Restorative Dentistry 115B. Lab 80 hours. Jendresen, Hamaguchi, D. Graham

Continuation of Restorative Dentistry 115A. Topics include dental and anatomical relationships within the dental arch and between opposing arches, general classification of complete denture prosthodontics, and laboratory and clinical procedures in complete denture prosthodontics. RESTOR DENT 115B.

115C. Intro to Restorative Techniques. (5) Credit; Restorative Dentistry 115C.

(5) Prerequisite: Restorative Dentistry 115C. Concurrent enrollment in Restorative Dentistry 115C. Lab 55 hours. Jendresen, Harman, D. Graham

Continuation of Restorative Dentistry 115A. Includes all theory of fixed prosthodontics in fixed prosthodontics, operative cavity design and preparation, waxing, and coating techniques to complete denture prosthodontics. RESTOR DENT 115C.

116A-B. Primary Clinical Care. (2-2) F: W. Lab 1 hour. Clinic 5 hours. Jendresen, Tuerkel, D. Graham

Introduction to clinical dentistry: students perform a comprehensive baseline examination of the oral cavity and evaluation of the patient’s health status. Students are introduced to clinical procedures in fixed prosthodontics, operative cavity design and preparation, waxing, and coating techniques. RESTOR DENT 116A.

115A. Intro to Restorative Techniques. (3) Credit; Restorative Dentistry 115A.

(3) Prerequisite: Concurrent enrollment in Restorative Dentistry 115A. Lab 12 hours.

Jendresen, Hamaguchi, D. Graham

An introductory laboratory course in restorative dental techniques. Includes clinical study of individual tooth form and relationship to opposing arch, materials and opposing arches application of principles involved in cavity design and preparation. RESTOR DENT 115A.

115B. Intro to Restorative Techniques. (6) Credit; Restorative Dentistry 115B.

(6) Prerequisite: Restorative Dentistry 115A. Concurrent enrollment in Restorative Dentistry 115B. Lab 80 hours. Jendresen, Hamaguchi, D. Graham

Continuation of Restorative Dentistry 115A. Topics include dental and anatomical relationships within the dental arch and between opposing arches, general classification of complete denture prosthodontics, and laboratory and clinical procedures in complete denture prosthodontics. RESTOR DENT 115B.

115C. Intro to Restorative Techniques. (5) Credit; Restorative Dentistry 115C.

(5) Prerequisite: Restorative Dentistry 115C. Concurrent enrollment in Restorative Dentistry 115C. Lab 55 hours. Jendresen, Harman, D. Graham

Continuation of Restorative Dentistry 115A. Includes all theory of fixed prosthodontics in fixed prosthodontics, operative cavity design and preparation, waxing, and coating techniques to complete denture prosthodontics. RESTOR DENT 115C.

116A-B. Primary Clinical Care. (2-2) F: W. Lab 1 hour. Clinic 5 hours. Jendresen, Tuerkel, D. Graham

Introduction to clinical dentistry: students perform a comprehensive baseline examination of the oral cavity and evaluation of the patient’s health status. Students are introduced to clinical procedures in fixed prosthodontics, operative cavity design and preparation, waxing, and coating techniques. RESTOR DENT 116A.

115A. Intro to Restorative Techniques. (3) Credit; Restorative Dentistry 115A.

(3) Prerequisite: Concurrent enrollment in Restorative Dentistry 115A. Lab 12 hours.

Jendresen, Hamaguchi, D. Graham

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Continuation of Restorative Dentistry 115A. Topics include dental and anatomical relationships within the dental arch and between opposing arches, general classification of complete denture prosthodontics, and laboratory and clinical procedures in complete denture prosthodontics. RESTOR DENT 115B.
Examination of current theories about biological and evolutionary bases of gender stratiﬁcation in prehistory and range of variation they exhibit. Interactions between gender roles and economic, political, religious, and social organization in societies of U.S. and other cultures explored. SOCIO SE 120.


198. Supervised Study. (1-5) F, W, Sp. Staff Library research and directed reading under supervision of a member of the faculty with the approval of the departmental chairman. SOCIO SE 120.

230. Chronic Illness. (3) F & W Prerequisite: Consent of Instructor 2 hours. Strauss Chronic illness faced by chronically ill persons and their families including crisis management, handling symptoms, managing regimen, social isolation, phases of the illness, temporal difﬁculties, normalization, dying. Some policy issues, including those concerning health care personnel as well as the general public. SOCIO SE 120.

212. A Sociology of Psychiatry. (5) F & W Prerequisite: Consent of Instructor 3 hours. Schatzman An examination and evaluation of classical and recent contributions to sociological theory. The main objective is the generation of a critical capacity with respect to received theories of the role of mental and emotional disorders. SOCIO SE 120.

216. Comparative Organizations. (3) F & W Prerequisite: Consent of Instructor 3 hours. Staff An examination and evaluation of classical and recent contributions to sociological theory. The main objective is the generation of a critical capacity with respect to received theories of the role of mental and emotional disorders. SOCIO SE 120.
Examination of the health status of the aged in the United States in light of relevant biologic, behavioral, sociocultural, environ mental, and health care systems. Critical questions on appropriate methods, relationship to theory, and articulation of questions will be considered.

255. Family Behavior Health Factors. (3) Wt, F. Sp. Prerequisite: Consent of Instructor. Graduate standing. Lecture 2 hours. Lab 2 hours.

C. Harrington, Benjamin

Examination of trends in planning for the human environment, including the planning process, human service organizations, professionals and consumers in generating and benefiting from major human services planning reforms. Planning in the fields of health and aging is emphasized. SOC BECH SC

223. Sociology of Public Policy. (2-4) Wt, F. Sp. Prerequisite: Consent of Instructor. 2 hours. Lab 0.6 hours. Staff

Introduction to the social construction of policy. Examination of problems in design, implementation, evaluation of policy, the role of ideology, social class and interest groups, power and planning, and the sociological significance of policy.

224. Epistemological Problems. (4-4) Wt, F. Sp. Prerequisite: Consent of Instructor. Staff

Central epistemological problems in the social sciences and their bearing on issues of the research role, modes of conceptualization, scientific communication, and research information. SOC BECH SC

226. Problems in Social Psychology. (2-4) F. Sp. Prerequisite: Consent of Instructor. Seminar 2 hours. Staff

Examination of critical problems in social psychology. Discussion of critical phenomena in the field of social psychology. Development of critical and research concepts in social psychology. Future directions in theory and concept will be reviewed. SOC BECH SC

227. History of Sociological Thought. (4) F. Sp. Prerequisite: Consent of Instructor. 4 hours. Staff

Schatzman

Examines the historical development of sociological thought. Objective of the course is to provide a historical background to sociological major schools of thought which constitute sociological tradition. Discussion of conceptual foundations and theories. Quality of research in the field is discussed. An introduction to research in sociology.

228. Adv Women's Roles in Health Care. (2-4) F. Sp. Prerequisite: Consent of Instructor. 2 hours. Lab 2 hours.

Olesen, Lewin

Examines the role of women in health care. Critical and research concepts in the role of women in health care. Effects of socialization and modernization on the role of women in health care. Focus on selected topics of special interest in health care and women's roles as providers will be discussed, and contemporary contro versial health care issues will be considered.

229. Women's Health: Socio-Historical. (2-4) F. Wt. Sp. Prerequisite: Consent of Instructor. 4 hours. Lab 0.6 hours. Staff

Examines the role of women in health care. Critical and research concepts in the role of women in health care. Effects of socialization and modernization on the role of women in health care. Focus on selected topics of special interest in health care and women's roles as providers will be discussed, and contemporary contro versial health care issues will be considered.

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A coordinated coverage of basic auditory function. The physiology of the peripheral auditory system and the basic psychophysical relations. Physics of sound, cochlear mechanics and microphonics, VIII nerve physiology, thresholds, masking, pitch, loudness, temporal adaptation, frequency analysis, binaural perception, and processing are included. OTOLOGY.

249. Independent Study. (1-5) S, F, W. Prerequisite: Consent of instructor. Staff

250. Speech Reception Research Sem. (1) F, S. Prerequisite: Consent of instructor. M. White

251. Speech Production Research Sem. (3) S. Prerequisite: Consent of instructor. Seminar 5 hours. P. Lemberk

252. Auditory Psychophys. (3) S. Lecture 3 hours. Staff

A coordinated coverage of basic auditory function. The physiology of the peripheral auditory system and the basic psychophysical relations. Physics of sound, cochlear mechanics and microphonics, VIII nerve physiology, thresholds, masking, pitch, loudness, temporal adaptation, frequency analysis, binaural perception, and processing are included. OTOLOGY.

249. Independent Study. (1-5) S, F, W. Prerequisite: Consent of instructor. Staff

Students and instructor develop jointly a plan of study for a particular area of hearing and speech research and laboratory work. Students engage in intensive exploration of specific topics related to the anatomic, physiologic, psychophysical, and behavioral aspects of the speech and hearing mechanisms. Consent of instructor. Consent of instructor. Staff

250. Research. (1-8) S, F, W. Prerequisite: Consent of instructor. Flower, Owens, Merzenich

Research for the Ph.D. dissertation. OTOLOGY.

299. Dissertation. (0) F, W. Prerequisite: Advancement to candidacy and permission of the graduate advisor. Staff

For graduate students engaged in writing the dissertation for the Ph.D. degree. Owens


Core general surgery clerkship in surgery. Students assigned to wards and clinics at UC, SGH, VA and C. The application of basic sciences, principles of diagnosis and treatment is emphasized in ward rounds and seminars. SURGERY.

140. Operative Heart Disease. (1/4 per week) S, F, W. Prerequisite: Core curriculum in basic sciences and Medicine 110 and Surgery 110. UC, B. Roe, U. Ellis

Ward rounds and conferences on patients with operable, congenital or acquired heart disease. Details of selection, differential diagnosis, and results of surgery are discussed. SURGERY.

141. Advanced Surgery Core Clerkship. (1/4 per week) S, F, W. Prerequisite Medicine 110 and Surgery 110. T. Hunt, Hohn

Students are senior clerk on wards, in operating room, and in fatiguing. Honors seminars focus on pathologic approach to surgical problems. Clinical clerkships in surgical specialities may be taken with prior approval of specialty department and Department of Surgery. SURGERY.

140.01. Advanced Surgery Clerkship. (1/4 per week) S, F, W. Prerequisite: Core curriculum in basic sciences and Medicine 110 and Surgery 110 and 111. T. Hunt, Trunkey, L. Way, V. Richards, B. Roe, Peter, P. Smich

Senior clinical clerkship participates in clinic, ward and operating room with direct involvement in patient's care. OTOLOGY, SGH, VA, UC, C, RSDM, UMC, and K. C. ROE.

140.02. Off-Campus Clerkship. (1/4 per week) S, F, W. Prerequisite: Core curriculum in basic sciences and Medicine 110 or Surgery 110 and 111. Eber

Clinical clerkship in approved hospitals in other universities by special arrangement and approval of the chairperson of the department and the student. Assignments made to meet special and specific needs of the student. DOS.

140.04. Vascular Surgery Clerkship. (1/4 per week) S, F, W. Prerequisite: Medicine 110 and Surgery 110 and 111. T. Hunt, L. Way

Students serve as acting interns on the vascular service. Experience is gained in preoperative, intraoperative, and postoperative management of patients, as well as in clinics, rounds, and conferences. DOS.

140.09. Trauma Surgery-SPGH. (1/4 per week) S, F, W. Prerequisite: Surgery 110 and 111 and consent of instructor. Sheldon

Clinical clerkship in the Trauma Service of the Department of Surgery at SGH. The student will work at intercal-level as an integral part of the service. DOS.

140.10. Cardiothoracic Surgery. (1/4 per week) S, F, W. Prerequisite: Medicine 110 or Surgery 110 or 111. UC, B. Roe, U. Ellis

As an integral member of the cardiothoracic team, the student directly and actively shares in preoperative evaluation, operative procedures, and postoperative care. Cardiac and thoracic conferences and daily ward rounds provide the didactic teaching. SURGERY.

140.21. Burns Care-Surgery. (1/4 per week) S, F, W. Prerequisite: Surgery 110. Trunkey

Clinical rotation on a large Burn Center Service. Pathophysiology of thermal injuries and management of patients. Students will actively participate in the daily ward rounds and will be an integral part of the team and will participate directly in patient care. SURGERY.


Participation in Plastic and Reconstructive Surgery. Students work on patient and take part in operative procedures, as well as manage the postoperative patient. Exposure to patients with general reconstructive cases, trauma to head and neck, hand surgery, and congenital anomalies. SURGERY.

140.13. General Surgery-WAF. (1/4 per week) S, F, W. Prerequisite: Surgery 110 and 111. O'Hara

Students receive broad clinical experience in general surgery at WAF and with practicing surgeons in selected community settings in the central San Joaquin valleys. Balance between WAF and community assignments is individually arranged according to students' interests. SURGERY.

140.63. Cardiopulmonary Surgery. (2) S, F, W. Prerequisite: Third- or Fourth-year standing. Lecture 2 hours.

Students are assigned to surgery services of B. Roe, J. Hutchinson

Seminars are conducted on a series of subjects relating to cardiopulmonary surgery, in conjunction with weekly rounds on cardiopulmonary surgery at San Joaquin Valley Medicine. SURGERY.

150.05. Advanced Surgery Reading. (2) S, F. Trunkey

Weekly seminar where prereading assigned papers are discussed and critiqued. Papers representing the classical and the current status of general surgery are covered. SURGERY.
160.06. Total Parenteral Nutrition. (5) Su, F, W, Sp. Prerequisite: Surgery 110 and consent of instructor. Lecture 3 hours. Lab 3 hours. Sheldon
Course emphasizes nutritional and metabolic requirements of injured, ill, and malnourished patients. Clinical rotation involves methods of preparation, administration, and assessment of patients taking caloric/nutritional or amino acid support as part of their therapy. SURGERY
198. Supervised Study. (1-5) F, W, Sp. Prerequisite: Consent of Instructor.

199. Ebert and Staff
Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. SURGERY

209. Laboratory Project. (1-5) F, W, Sp. Prerequisite: Consent of instructor.
A laboratory research project under the direction of a member of the faculty with the approval of the chairperson of the department. SURGERY

SGHi Trunkley, Jr, L. Way
Conference is devoted to presentation of case studies with reference to the literature, case records, laboratory tests, and special studies. Faculty and occasional guest lecturers discuss surgical problems. Death and complications are reviewed weekly. SURGERY

Seminars include case reports and demonstrations of the currently available gross and microscopic surgical pathological material, from the operating rooms and pathology laboratories. SURGERY

Seminar is held in the surgical wards with discussion of current problems concerning the diagnosis and management of general surgical patients. SURGERY

Residents, under supervision, are responsible for the preparation of case records, laboratory work, preoperative patient preparation, assistance at operations, postoperative care, and attendance at follow-up clinic. SURGERY

542. Experimental Surgery Laboratory. (1/2 per week) Su, F, W, Sp. Prerequisite: Surgery 450 and 452 may not be taken concurrently. UC Ebert, SGHi Trunkley, Jr, L. Way
Course includes experimental investigations of general surgical problems and the development of technical and laboratory methods to be applied in general surgery. SURGERY

Ebert
Assistant residents in off-campus hospitals approved by the chairperson of the department and the dean. Course includes clinical and experimental investigations of general surgical problems and the development of technical and laboratory methods to be applied in surgery. SURGERY

SGHi Trunkley
Interns rotate through the general surgical service under junior faculty. Interns receive the direction of the attending staff, experience is provided in vascular, chest, hand, and plastic surgery, and surgery of maxillofacial injuries. SURGERY

495. Clinical Surgery. (1/2 per week) Su, F, W, Sp. UC Ebert
Interns, under supervision, are responsible for the preparation of case records, laboratory work, preoperative patient preparation, assistance at operations, postoperative care, and attendance at follow-up clinic. SURGERY


Staff
Course provides resource information in the form of a systematic overview of educational technology. This information is introduced in conjunction with the development by the individual student of an actual microcourse, teaching a single skill. GEN DENT

Staff
Practical teaching experience in selected courses under the supervision of members of the staff. GEN DENT

186.01A-B-C. Practice Teaching. (0.3, 0.3, 0.5) F, W, Sp. Lab 3 hours.
Staff
Practical teaching experience in selected courses under the supervision of senior members of the staff. GEN DENT

Tanagho
Seminar includes discussion of diagnosis and treatment of patients in the urologic wards with the attending staff. UROLOGY

Conference includes presentation and discussion of urologic problems by the house staff and faculty. UROLOGY

180.44. Urolgic Clinical Seminar—UROL. (1/2 per week) Su, F, W, Sp. UC Tanagho, SGHi McAninch, R. D. Williams
First-year residents care for patients in the wards and outpatient clinics. Second- and third-year residents, under supervision, perform instrumental examinations on clinic patients. Senior residents, under supervision, perform instrumental and surgical procedures and have administrative, clinical, and teaching responsibilities. UROLOGY

SGHi McAninch
Interns rotate through urologic wards. Under the direction of the attending staff they are responsible for the care of patients, including history-taking, physical examination, laboratory tests, and consultation. UROLOGY

Tanagho
Seminar includes study of the basic sciences and urologic roentgenology with members of the urologic staff. UROLOGY

Tanagho
Course includes experimental investigation in urologic problems. UROLOGY

Urology