General CATALOG
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.

Sutherland and Staff

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elective course for advanced medical or graduate students. ANATOMY
156A. Gross & Regional Anatomy. (1) F. Prerequisite: Admission to Dental Hygiene curriculum, School of Dentistry. Lecture 1 hour. Coleman, Steller
Gross structure of the thorax and abdominal regions studied by means of lectures. Consideration is given to the functional aspects of the structures studied. STOMATOLOGY
156B. Head & Neck Anatomy. (2) W. Prerequisite: Dental Hygiene students. Lecture 2 hours. Lab 3 hours. Coleman
The gross anatomy of the head and neck is studied by lectures and demonstrations. Clinical applications and functions of importance to the dental hygienist are emphasized. STOMATOLOGY
156C. Neuroanatomy. (2) W. Prerequisite: Dental Hygiene standing. Lecture 1 hour. Lab 3 hours. Coleman
The structure and function of the nervous system studied by means of lectures, laboratory exercises, and demonstrations. STOMATOLOGY
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 0-12 hours. R. D. Coleman
Designed for postgraduate specialty certificate students enrolled in the clinical specialty training programs in the School of Dentistry. Seminar presentation and demonstrations of head and neck anatomy are correlated with their application to clinical dentistry. STOMATOLOGY
170.01. Problem Areas in Clin Anatomy. (1) Su F. W. Sp. Prerequisite: Anatomy 100 or concurrent enrollment. First-year standing in School of Medicine. Lindner
Discussion of important areas in clinical anatomy such as hernia, thyroid, perineum, and peritoneal cavity. Course is correlated with Anatomy 100. ANATOMY
170.02. Survey of Congenital Defects. (2) W. Prerequisite: Gross anatomy and consent of instructor. Lecture 2 hours. Monie, I. Gilbert
This elective course is designed to provide the physical therapist with information on common human congenital defects. The effects of environmental and genetic factors are discussed. ANATOMY
170.04. Applied Gross Neuroanatomy. (2) Sp. Prerequisite: Anatomy 103 or concurrent enrollment, or consent of instructor. Lecture 1 hour. Lab 3 hours. deGroot
A laboratory-oriented consideration of the anatomy of the human brain and spinal cord. Discussion of case histories is correlated with basic neuroradiology and neuropathology. ANATOMY
170.05. Abnormal Gross/Neuroanatomy. (1) Sp. Prerequisite: Anatomy 103 or concurrent enrollment. Medical student standing. Seminar 1 hour. deGroot
Abnormal changes in gross/neuroanatomy will be discussed in terms of clinical correlation and neuroradiological diagnostic methods. ANATOMY
170.08. Regional & Topographical Anatomy. (1) F. W. Sp. Prerequisite: Second- and third-year medical students. Lecture 1 hour. Lindner
Living clinical anatomy is stressed; the diaphragm, complete review of the neck, and abdominal contents. Clinical congenital anomalies are discussed in detail regarding their relationship to clinical medicine. ANATOMY
170.09. Language of Anatomy. (1) & Su F. W. Sp. Prerequisite: Concurrent enrollment in Anatomy 100. Lecture 1 hour. Lab 1 hour. Astling
A three-component elective, fostering vocabulary-building in anatomico-medical terminology, reflecting history of medical and cultural themes influencing development of anatomical nomenclature, and through student oral reports on eponymic terms, introducing some major figures in anatomy. ANATOMY
171. Applied Anatomy. (1½) Sp. Prerequisite: Enrollment in postgraduate specialty program. Lecture ½ hour. Lab 3 hours. Ryder
Course covers anatomy as it relates to anesthesia and periodontal surgery. STOMATOLOGY
172. Clin Anat through Cross-Section. (2) & Sp. Prerequisite: Anatomy 100. Not open to first-year medical students. Lecture 1 hour. Lab 3 hours. Asling
Clinically oriented survey of human anatomy through analysis of representative cross-sections of the body. Course provides an anatomical background for understanding tomograms. Student will prepare and keep an anatomy atlas usable in radiologic tomography. ANATOMY
175. Congenital Abnormalities. (2) W. Prerequisite: Anatomy 100 or equivalent and consent of instructor. Seminar 2 hours. Monie
Weekly seminars on experimental teratology as a tool to understanding the formation of congenital abnormalities in man. ANATOMY
198. Supervised Study. (1-5) & & Su F. W. Sp. Staff
Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. ANATOMY
199. Laboratory Project. (1-5) & & Su F. W. Sp. Staff
A laboratory research project under direction of a member of the faculty with the ap-
palpation of the chairperson of the department.

ANATOMY

201. Radiat Effects on Genes & Chrom. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours. S. Wolff

Concepts and mathematics of target theory relating to damage of genetic apparatus. Biophysical and biochemical studies on induction of intragenic and intergenic mutations that give insight into the structure of chromosomes and the interaction of radiation with biological material. ANATOMY

202. Organ Culture Methods. (1) § W. Prerequisite: Basic courses in biology; a course in histology is recommended. Lecture 1 hour. J. Elias

The course will discuss the advantages of organ culture methods in studying problems in embryology, endocrinology, pathology, and physiology; and in assessing the effects of hormones, nutritive substances, and carcinogens. ANATOMY

203. Techniques in Cell Biology. (3) § Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Offered in alternate years. Offered 1984-85. S. Rosen, Werb

Course introduces the literature and provides training in topics such as lipid, carbohydrate, peroxidase, general enzyme histochemistry, and ultrastructural cytchemistry; immunoelectrophoresis; immunoelectron microscopy; cell fractionation. Content of course will vary from year to year depending upon students' needs and interests. ANATOMY

204. Cytogenetic Techniques. (3) § Sp. Prerequisite: Consent of instructor. Lecture 6 hours. S. Wolff

Course covers instruction in various methods of chromosome banding as well as cell cycle analysis by autoradiography. ANATOMY

205. Biology of Mammalian Development. (3) § F. Prerequisite: Undergraduate course in embryology or consent of instructor. Lecture 3 hours. Offered in alternate years. Not offered 1984-85. G. R. Martin

Examination of the neural organization of the central and peripheral nervous systems, and methods available for experimental analyses of that organization. Topics include neuroanatomy, axon transport, neural degeneration and plasticity, histochromie, and immunocytochemistry. Analysis and interpretation of original research literature. ANATOMY

215. Cell Structure & Function. (3) § Sp. Prerequisite: An elementary knowledge of cell ultrastructure and biochemistry. Lecture 2 hours. Seminar 2 hours. J. Long and Staff

An advanced presentation of the relationships between structural organization and the physiological activities of the cell. Laboratory or library research in mammalian embryology or directed reading on current developments in gametogenesis, fertilization, cleavage, implantation, organogenesis, or molecular differentiation. ANATOMY

217. Adv Head & Neck Anatomy for Dent. (2-6) § Sp. Prerequisite: Anatomy 117A-B or equivalent and consent of instructor. Lecture 2 hours. Lab 0-12 hours. R. D. Coleman

A critical analysis of selected topics and methods in head and neck anatomy: Topics are correlated with appropriate laboratory experience and are presented by students, staff, and guests. STOMATOLOGY

220. Anatomy Seminar. (1) § F, W. Prerequisite: Consent of instructor. Lecture 1 hour. Staff

Students, staff, or guests present selected topics concerned with current research in anatomy for criticism and discussion. ANATOMY

225. Experimental Neuroanatomy. (4) § W. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 3 hours. Offered in alternate years. Offered 1984-85. H. Ralston and Staff

Examination of the neural organization of the central and peripheral nervous systems, and methods available for experimental analyses of that organization. Topics include neuroanatomy, axon transport, neural degeneration and plasticity, histochromie, and immunocytochemistry. Analysis and interpretation of original research literature. ANATOMY

226. Neuroanatomy Seminar. (1) § F, W. Prerequisite: Consent of instructor. Seminar 1 hour. H. Ralston

A seminar series dealing with current literature in neuroanatomy and neurophysiology. ANATOMY

231. Devel of Cellular & Molec Biol. (3) § W. Prerequisite: Consent of instructor. Lecture 3 hours. Offered in alternate years. Offered 1984-85. C. Caraco

Molecular and cellular events relating to differentiation and development. A variety of developmental phenomena will be surveyed and related, where possible, to genetic and epigenetic control mechanisms. ANATOMY

233. Mammalian Chimeras & Mosaics. (2) § Sp. Prerequisite: Anatomy 205 or consent of instructor. Lecture 2 hours. Offered in alternate years. Offered 1984-85. Pedersen

Course focuses on procedures for producing mammalian chimeras and the use of chimeras in analysis of development. Topics to be covered include analysis of parthenogenesis, cell commitment, differentiation, growth control, neoplasia, germ cells, and reproduction. ANATOMY

235. Developmental Neurobiology. (1-3) § W. Prerequisite: Consent of instructor. Lecture 1-3 hours. Offered every third year. Offered 1985-86. J. LaVail, M. LaVail, L. Reichardt

Principles involved in the structural and functional development of the nervous system as well as detailed consideration of the de-
development of several specific regions of the mammalian central nervous system. Lectures, student presentations, and discussions of classical and current literature. ANATOMY

250. Research. (1-8) § E, W, Sp. Staff
ANATOMY

273. Biolog Scan.ing Electron Micros. (1) § W. Prerequisite: Consent of instructor. Lecture 1 hour. Lab 2 hours for three sessions. Enrollment limited. J. Long and Staff
Principles of scanning electron microscopy including tissue preparative techniques and applications. Laboratory sessions include participation in preparing and viewing biological specimens. ANATOMY

298. Thesis. (0) § E, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff
For graduate students engaged in writing the thesis for the master's degree. ANATOMY

299. Dissertation. (0) § E, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff
For graduate students engaged in writing the dissertation for the Ph.D. degree. ANATOMY

300. Practicum in Teaching. (1-4) § E, W, Sp. Prerequisite: Consent of instructor. Staff
Training in teaching in a course offered by the Department of Anatomy under the supervision of instructor in charge. Laboratory teaching, presentation of lecture material, experience in setting up and correcting of examinations, and participation in course are included. ANATOMY

400. Clin Anath through Cross-Section. (2) Su, Sp. Prerequisite: Open to house staff members of UC hospitals. Lecture 1 hour. Lab 3 hours. Asling, Ross
Clinically oriented survey of human anatomy through analysis of representative cross-sections of the body. Course provides an anatomical background for understanding computed tomograms. Student will prepare and keep an anatomy atlas usable in radiologic tomography. ANATOMY

Anesthesia

110. Anesthesia Core Clerkship. (3) Su, F, W, Sp. Prerequisite: Medicine 130, 131AB, C, Physiology 100, Pharmacology 100A-B, and Psychiatry 130. Strong
Instruction and experience in operating room anesthesia including preoperative and postoperative evaluation and care. Cardiopulmonary resuscitation and care of the unconscious patient are stressed. The course is given at SFGH, UC, VA, CR, and AB hospitals. ANESTHESIA

140.01. Advanced Anesthesia Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Anesthesia 110. Strong
Instruction and experience in cardiopulmonary resuscitation, care of the unconscious patient, and treatment of pain problems. Rotation through UC, SFGH, and VA. Attendance at the teaching conferences of the department. ANESTHESIA

140.02. Off-Campus Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Anesthesia 110. Strong
Clinical clerkships in approved hospitals by special arrangement and approval of the chairperson of the department. ANESTHESIA

140.03A. Intensive Care Clerkship-SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Anesthesia 110 and/or consent of instructor. Schlobohm
Course is designed to familiarize the student with techniques of intensive care with emphasis on clinical, renal, respiratory, and circulatory physiology applied to support of patients with cardiopulmonary insufficiency. ANESTHESIA

140.03B. Intensive Care Clerkship-UC. (1½ per week) Su, F, W, Sp. Prerequisite: Anesthesia 110 and/or consent of instructor. Don
Course is designed to familiarize the student with techniques of intensive care with emphasis on clinical, renal, respiratory, and circulatory physiology applied to support of patients with cardiopulmonary insufficiency. ANESTHESIA

140.04. Anesthesia Obstetrical Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Anesthesia 110, Obstetrics and Gynecology 110, and consent of instructor. Shneider
Course covers anesthesia and analgesia for vaginal delivery and cesarean section. Emphasis is placed on effects of anesthetic techniques and drugs on normal physiologic changes in labor and delivery, placental transfer of drugs, and resuscitation of the newborn. ANESTHESIA

178. General Anesthesiology. (6) Sp. Prerequisite: Interns and residents. Clinic. Hamilton and Staff
Course covers the systemic effects of the various muscle relaxants, sedatives, and stimulants and the administration of general anesthetic agents. ANESTHESIA

199. Laboratory Project. (1-5) Su, F, W, Sp. Eger
A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. ANESTHESIA

Course includes didactic lectures in sciences basic to the specialty of anesthesia, as well as case reviews, clinical discussions, and seminars on current medical literature in anesthesia. ANESTHESIA

of residency, and during either second or third year. W. Hamilton

Residents are responsible for anesthetic care and management of patients in the operating rooms and outpatient departments, under immediate supervision of the staff. Preoperative and postoperative evaluation of patients, oxygen therapy, and resuscitation are covered. ANESTHESIA

460. Special Assignment. (1½ per week) Su, F, W, Sp. Elective for residents during either second or third year. U.C. Eger

Assignments include instruction in anesthesia for children, problems related to open heart surgery, cardiology, and opportunity for research in related fields. ANESTHESIA

Animal Science

162. Principles of Animal Lab Science. (3) § W. Lecture 1 hour. Lab 6 hours. Spinelli

Introduction to the selection, anatomical and physical peculiarities, and preoperative and postoperative care of animals. Laboratory experiments in anesthesia, surgical exercises, drug administration, perfusion techniques, and individual experiments are included. PHARMACY

Anthropology

200. Off-Campus Study. (0) § F, W, Sp. Prerequisite: Approval of the graduate adviser. Open only to students enrolled in the graduate program in Medical Anthropology. Staff

Full-time graduate study in the Medical Anthropology program through the intercampus exchange or consortium program. EPID INTL HLTH

205A-B. Intro to Sociocultural Aspects. (3-4, 3-4) § FW. Prerequisite: Intended primarily for doctoral students in medical anthropology, and others at graduate standing with consent of instructor. Lecture 3 hours, plus 3 hours independent study for 4 units. Required for and open only to first-year students in the UCSF Ph.D. Program in Medical Anthropology. Two-quarter course. Ablon, Todd

Seminar in the history and theory of social anthropology as applied to problems of health and illness. Major concepts and problems will be illustrated through critical review of selected research literature. EPID INTL HLTH

206A-B. Intro to Biomedical Anthropology. (3-4, 3-4) § FW. Prerequisite: Consent of instructor. Lecture 3 hours, plus 3 hours independent study for 4 units. Open only to first-year students in the intercampus Program in Medical Anthropology. Required for students in the UCSF Ph.D. Program in Medical Anthropology. F. Dunn (F), Pawson (W)

Survey of the biocultural areas of medical anthropology; anthropological methods and approaches to biomedicine and human biology. EPID INTL HLTH

211A-C. Research Training Seminar. (3-4, 3-4, 3-4) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours, plus 3 hours independent study for 4 units. Required for and open only to first-year students in the UCSF Ph.D. Program in Medical Anthropology. M. Clark, Lewin, Ablon

Fundamentals of anthropological research design and methods through lectures, readings and field assignments. EPID INTL HLTH

212A-B-C. Research Apprenticeship. (2-5, 2-5, 2-5) § F, W, Sp. Prerequisite: Consent of instructor. Lab 6-15 hours. Staff

Students work with individual faculty members in ongoing research projects. Each student will work on supervised data collection and analytical tasks, and a broader range of research activities, such as problem formulation, grant preparation, sampling, and research design and execution. EPID INTL HLTH

216. Research Design. (3) § F, W. Lecture 2 hours. Lab 3 hours. Nydegger

Workshop format, utilizing student research interests. Topics include model building, problem formulation; design of research strategies; evaluation of sampling methods; operationalization of concepts; special problems for qualitative data. Course is preparatory for anthropological statistics. EPID INTL HLTH

217. Statistics. (2) § F, W, Sp. Prerequisite: Anthropology 216. Lecture 2 hours. Lab 3 hours. Mitteness

Introduction to statistical methods for the social sciences: measurement, selected data characteristics, probability theory, statistical models, descriptive statistics, the general linear model; analysis of qualitative data. Emphasis is on understanding fundamental assumptions and procedures of statistical methods relevant to anthropology. EPID INTL HLTH

218. Computer Methods. (3-4) § Sp. Lecture 3 hours. Lab 0.5 hours. Staff

An introduction to data processing methods most commonly used by medical anthropologists. Topics covered in lecture and laboratory demonstrations include: how a computer works, data form design, key punching, use of SPSS and HDM programs. EPID INTL HLTH

220. Selected Topics. (0) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Staff

Students, staff, or guest lecturers present selected topics based on their current work. EPID INTL HLTH

221A-B. History & Theory of Anthropology. (3-3) § F, W. Prerequisite: Consent of instructor. Generally limited to students in anthropology. Lecture 3 hours. Staff
A review of the history and development of anthropology and its major theoretical approaches. Lectures, discussion, and readings focus on major issues, trends, and personality and present concerns in the field. EPID INTL HLTH

222A-B-C. Writing Skills. (1-3, 1-3, 1-3) § F, W, Sp. Prerequisite: Open to Medical Anthropology graduate students only. Lecture 1-3 hours. Course may be repeated for credit.

Students submit papers for editorial comment and advice on style, organization, grammar, syntax, and proper scholarly form. Course includes lectures, informal group discussions on problems encountered in writing papers, and some assigned and recommended readings. EPID INTL HLTH

223. Social Network Analysis. (3) § F, W, Sp. Prerequisite: Consent of instructors. Lecture 2 hours. Independent study 3 hours.

Todd, Lewin

Examination of origins and development of network analysis and the uses to which it has been put, particularly in urban anthropological research: methods and measures for gathering and analyzing network data; applications of network analysis to health and illness behavior. EPID INTL HLTH

225. Contemporary Issues. (2-4) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 3 or 6 hours independent study for 3 or 4 units.

M. Clark

Introduction to selected controversies and current issues in medical anthropology, including sociology, sociocultural impact of high technology medicine, abortion, euthanasia and the right to life; status of research on the etiology of mental disorders; advocacy, praxis and the social scientist. EPID INTL HLTH


G. Becker, Ablon

Examination of social attributes of stigma to such conditions as deafness, alcoholism, obesity, dwarfism, mental and physical disabilities. Self-help groups organized around such conditions will be examined. Guest speakers who have experienced these conditions will contribute to the course. EPID INTL HLTH

230. Culture & Personality. (2-3) § F Prerequisite: Consent of instructor. Lecture 2 hours, plus 5 hours independent study for 3 units.

Todd, Kiefer

Exploration of the relationship between culturally conditioned ways of perceiving, thinking, and communicating, and individual behavior and personality development. Application of cultural and personality findings in medical and nursing settings. EPID INTL HLTH

231. Ethnopsychiatry. (2-3) § F, W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 3 hours independent study for 3 units.

M. Clark, Hartog, Maduro

Course examines principles of healing systems in the treatment of mental disorder including folk healing, cross-cultural comparisons, research methods, and implications for community psychiatry. Students study local examples of folk healers or folk healing institutions. EPID INTL HLTH

233. Anthropology of Aging. (2-3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus research project for 3 units.

M. Clark and Staff

Cross-cultural approaches to roles, statuses, and problems of aged populations. Cultural factors influencing the condition and adaptation of the aged in American society. Topics to be covered include cultural attitudes and values, social relationships, and health problems. EPID INTL HLTH

234. Culture & Symbolic Systems. (2-3) § F. Prerequisite: Anthropology 230A or equivalent, or consent of instructor. Lecture 2 hours, plus 3 hours independent study for 3 units.

M. Clark, Hartog, Maduro

Symbolic expressive behavior is considered from psychocultural life-cycle and psychoanalytic perspectives. Various projective systems are analyzed: psychological tests, dreams, folklore, myths, religious rituals, altered states of consciousness, and healing procedures. EPID INTL HLTH

235. Transcult Aspects of Childhood. (2) § F Prerequisite: Consent of instructor. Open to students in medicine, nursing and graduate departments. Lecture 2 hours, plus research paper.

M. Clark, Hartog, Maduro

Review of child development, child rearing and family dynamics in various non-Western cultures and in selected ethnic subcultures of the United States. Cultural contexts of personality formation, deviations in development, and childhood illness will be discussed. EPID INTL HLTH

236. Women & Sex Roles. (3) § W Prerequisite: Consent of instructor. Lecture 3 hours.

Lewin

An examination of the significance of gender in the social organization and culture of non-Western and contemporary societies, including both cross-cultural study of economic, political, and religious systems, and in-depth discussion of specific ethnographic areas. EPID INTL HLTH

238. Shamanism & Related Phenomena. (3) § W Prerequisite: Consent of instructor. Lecture 3 hours.

M. Clark, Hartog, Maduro

Staff

A cross-cultural survey of the practice of shamanism with emphasis on management of disease. Beliefs and practices concerning disease causation, diagnosis, and therapy will be compared with approaches used in other medical systems. Comparison of shamanistic use of trance. EPID INTL HLTH

239. Comparative Family Systems. (3) § F, W or Sp. Prerequisite: Consent of instructor.
Lecture 2 hours, plus 3 hours independent study.  
*Ablon*  
Survey of conceptual approach to family study and modes of family assessment. Structure and dynamics of varying family systems examined, emphasizing changing family forms and ways family life style and values contribute to modes of coping with stress, illness, and crises. EPID INTL HLTH

240. **Urban Anthropology.** (2-3) § F, W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 3 hours independent study for 3 units.  
*Ablon*  
The culture of modern cities. Evaluation of theories and methods for understanding urban behavior. Ethnic, racial, and subcultural pluralism in modern cities. The relevance of anthropological concepts for health planning. EPID INTL HLTH

241. **Social Deviance.** (3) § F, W, or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus field research project.  
*Ablon*  
A review of theory and concepts dealing with social and cultural deviance. Focus will be on deviant life styles and subcultural groups in urban areas. EPID INTL HLTH

242. **Com Mental Hlth Considerations.** (3) § Sp. Prerequisite: Consent of instructor. Lecture 3 hours.  
*Ablon, Leighton*  
A survey of principles and practice in the community mental health field. Emphasis is on the significance of sociocultural factors in the determination of community needs and the delivery of mental health services. EPID INTL HLTH

243. **Interfaces between Law & Med.** (2-3) § Sp. Prerequisite: Consent of instructor. Lecture 2-3 hours.  
*Ablon, Ruffini*  
Cross-cultural survey of problems at law-medicine interface, including medical determinants of legal status; complementary/conflicting approaches to alcoholism, drugs, sexual conduct, therapeutic functions of social control procedures such as witchcraft, gossip, conflicts between religious beliefs and medical/legal practices. EPID INTL HLTH

248. **Group Study.** (1-5) § F, W, Sp. Prerequisite: Consent of instructor.  
*Staff*  
Groups of two or more collaborate on special problems in anthropology under the direction of faculty. Students may select areas related to their long-term interest and future research program. EPID INTL HLTH

249. **Directed Reading.** (1-5) § F, W, Sp. Prerequisite: Consent of instructor.  
*Staff*  
Independent study. EPID INTL HLTH

250. **Research.** (1-8) § F, W, Sp. Prerequisite: Consent of instructor.  
*Staff*  
EPID INTL HLTH

251. **Social Gerontology.** (2-4) § W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 3 or 6 hours independent study for 3 or 4 units.  
*C. L. Johnson, Todd*  
An overview of the theoretical, empirical, and applied literature on the social processes of aging in this country. Special emphasis on health-related problems and the delivery of services to the elderly. EPID INTL HLTH

252. **Class, Culture & Health Policy.** (3) § W Seminar 3 hours.  
*M. F. Mitchell*  
Combining the perspectives of anthropology and health policy, the course will examine the effect of culturally-linked beliefs and values on utilization of health services and the impact of health policies on medical care for low-income populations in the United States. EPID INTL HLTH

255A-B. **Intercampus Seminar with UCB.** (2-4, 2-4, 2-4) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 3 or 6 hours independent study for 3 or 4 units. Intercampus seminar with UC Berkeley.  
*M. Clark, F. Dunn*  
A review of the principal fields of medical anthropology with emphasis on current research and methods. EPID INTL HLTH

260. **Epidemiology & Med Anthro.** (2-4) § Sp. Prerequisite: Training in epidemiology and consent of instructor. Lecture 2 hours plus 3 or 4 units.  
*Indepenec*  

263. **Biol.** (1) § Sp. P. Lecture 3 hours  
Examination with emblerentiation process, cification, inutility, birth, early cence, seaptation and INTL HLTH

267. **Nutri**  
W or Sp. Pr. Lecture 2 1 hours.  
Survey of sociocultural and nutritional aspects of countries. EPID INTL HLTH

299. **Speci**  
requisite: C.  
Indepenec

299. **Disser**  
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**Biochem**  
100A-B. Ce  
(5-5) § F, instructor.
263. Biol Perspec on Growth & Devol. (1) § Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Examines the human growth process with emphasis on cellular growth and differentiation; biochemical basis of the growth process; critical periods of growth—fertilization, implantation, prenatal development, birth, early postnatal development, adolescence, senescence, and developmental adaptation and racial differences in growth. EPID INTL HLTH

267. Nutritional Anthropology. (2-3) § 3. W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus research paper for 3 units. Survey of past and current research on sociocultural and biocultural aspects of diet and nutrition in developed and developing countries in lecture-seminar format. Methodology for nutritional anthropology field studies will be presented. EPID INTL HLTH

297. Special Study. (1-5) § F, W, Sp. Prerequisite: Consent of instructor. Independent study. EPID INTL HLTH

299. Dissertation. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. For graduate students engaged in writing the dissertation for the Ph.D. degree. EPID INTL HLTH

Biochemistry

100A-B. Cellular Structure & Function. (5-5) § F, W. Prerequisite: Consent of instructor. Lectures and conferences in biochemistry and molecular biology presenting fundamental knowledge and illustrating its applicability to medicine. Primarily for medical students. BIOCHEM

110A-B. Cellular Structure & Function. (4-4) F, W. Lecture 4 hours. Lectures in biochemistry include aspects of cell physiology and cellular ultrastructure, with emphasis in the area of connective and mineralizing tissues. Fundamental knowledge is presented in the context of its applicability to clinical health sciences. Primarily for dental students. BIOCHEM

120A-B. Cellular Structure & Function. (4½-4½) F, W. Prerequisite: Consent of instructor for first-year students. Lecture 4 hours. Conference 2 hours. Intended primarily for Pharmacy students. BIOCHEM

150.11. Research in Biochemistry. (1½ per week) F, W. Prerequisite: Consent of instructor. Research in biochemistry. BIOCHEM

200A. Structure of Macromolecules. (5) § Sp. Prerequisite: Calculus, physical chemistry, organic chemistry, and an advanced course in biology. Lecture 3 hours. STRoud and Staff

Fundamental principles governing the behavior of, and modern techniques for study of biological macromolecules. Topics covered include thermodynamics (entropy, equilibrium, cooperative interactions). Kinetics and catalysis: structure and function of macromolecules—DNA, membranes, proteins by X-ray and electron optics. Kinetics and structure of cooperative enzymes and systems of biological control. BIOCHEM

200C. Chromosome Structure & Function. (1½) § Sp. Prerequisite: Calculus, physical chemistry, organic chemistry, and an advanced course in biology are recommended. Lecture 3 hours for one-half quarter. SEDat Staff

Structure and function of chromosomes in eukaryotes will be discussed in depth, beginning with basic underlying experiments and leading to the most recent proposals for structure. Emphasizes both theoretical and experimental approaches to this area of cell and molecular biology. BIOCHEM

200E. Enzymology. (3) § F. Prerequisite: Calculus, physical chemistry, organic chemistry, introductory biochemistry, and an advanced course in biology, or consent of instructor. Lecture 3 hours. Offered in alternate years. Offered 1984-85. Santi Kenyon Staff

Biochemically important chemical transformations from the physical organic point of view, emphasizing catalytic mechanisms pertinent to enzyme reactions, and to the development of enzyme model systems. Intermolecular forces and enzyme substrate interactions. Techniques of investigating enzyme mechanisms and kinetics. BIOCHEM

201A-B. Biological Regulatory Mechanisms. (1½, 3) § F, W. Prerequisite: Calculus, physical chemistry, organic chemistry, intro-
220. Selected Topics. (0) § F, W, Sp. Lecture 1 hour.
- Alberts
  Lectures and discussion on topics of current interest in biochemistry and biophysics. BIOCHEM

221. Selected Topics. (0-1) § F, W, Sp. Lecture 1 hour.
- Staff
  Presentations of selected topics in biochemistry by graduate students in the Department of Biochemistry and structure and organization. BIOCHEM

240. Macromolecule Struc & Dynamics. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Offered in alternate years. 1984-85. A. R. Cooke, Stroud
  Consideration of the structure, dynamics and function of macromolecules along with a treatment of the methods used to probe aspects of molecular organization and dynamics. Emphasis will be on modern E.M., X-ray and fluorescence, and magnetic resonance methods. BIOCHEM

242. Structural Analysis. (3) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 5 hours. Offered in alternate years. Not offered 1984-85. Principles of X-ray crystallography applicable to protein structure analysis will be presented in a course oriented toward research level understanding of the field. Course will involve group participation and some experimental work. BIOCHEM

245. Cell & Developmental Biology. (3) § W. Prerequisite: Calculus, physical chemistry, organic chemistry, and an advanced course in biology. Recommended. Lecture 3 hours. R. Kelly, Alberts, Kirschner
  Modern aspects of the biochemical basis of cell biology and development will be examined with emphasis on spatial organization and morphogenesis. BIOCHEM


Bioengineering

190. Diff Equations for Biomed Use. (3) § W. Prerequisite: Introductory calculus. Lecture 3 hours.
- Glantz
  Course covers description of biomedical processes such as cardiovascular physiology, pharmacokinetics, instrumentation with ordinary differential equations, direct methods to solve equations and interpret the results; linearity, origins of exponential, natural logarithm, sines and cosine functions; eigenvalues, time constants, and half-times.

192. Laplace & Fourier Transforms. (3) § Sp. Prerequisite: Bioengineering 190 or equivalent. Lecture 3 hours.
- Glantz
  Course covers Laplace transform and numerical solutions of differential equations;
Biomaterials

Students are introduced to the physics, chemistry, and metallurgy of materials used in dentistry and how use affects physical and chemical properties of materials. The material systems studied are gypsum, cements, resins, waxes, colloids, and metals. RESTOR DENT

181. Cosmetic Dentistry. (1) F, W. Prerequisite: Consent of instructor. Lecture 1 hour. Lacy
Review of a variety of materials and techniques related to the delivery of cosmetic or esthetic dentistry. New materials and procedures in both operative dentistry and fixed prosthodontics are emphasized. RESTOR DENT

190. Biolog Modeling through Diff Eqn. (3) § E Prerequisite: Biomathematics 180 or equivalent. Lecture 2 hours. Lab 3 hours. Licko
Development of intuitive notions regarding differential equations. Quantitative and qualitative aspects of differential equations are explored by analog, digital, and analytic techniques. Applications to selected problems in

Biomathematics

180. Algebra & Calculus for Biomed. (3) § Su. Prerequisite: Consent of instructor. Licko
Mathematical concepts and processes for planning, representation, and analysis in biomedical research. Review of algebraic operations, equations, matrices, and graphs. Introduction to functions, sequences, convergence, derivatives, integrals, and infinite series. Applications to growth, binding, enzyme kinetics, tracer studies, population dynamics. BIOCHEM

190. Biolog Modeling through Diff Eqn. (3) § E Prerequisite: Biomathematics 180 or equivalent. Lecture 2 hours. Lab 3 hours. Licko
Development of intuitive notions regarding differential equations. Quantitative and qualitative aspects of differential equations are explored by analog, digital, and analytic techniques. Applications to selected problems in

"See Biochemistry 202 and 203."
203. Mending Human Genes. (2) 3rd W. Pre-requisite: Admission to Biophysics group graduate program or other UC graduate program. Also open to postdoctoral students and other auditors. Lecture 2 hours. Cleaver
   Introduction to eukaryotic DNA repair mechanisms. Emphasis is on cells damaged by UV light, ionizing radiation, and chemical carcinogens. The genes involved in regulating repair in various inherited diseases involving mutagenesis, carcinogenesis, and aging will be described. BIOCHEM

   BIOCHEM

290. Dissertation. (0) F, W, Sp. Pre-requisite: Advance to candidacy and permission of the graduate adviser. Staff
   For graduate students engaged in writing the dissertation for the Ph.D. degree. BIOCHEM

Biostatistics

183. Intro to Statistical Methods. (4) Su, Sp. Lecture 4 hours. J. Hoffman and Staff
   Course stresses application of methods, including analysis of variance, simple linear regression, and simple chi-square tests. Intended for those who may need to use elementary statistics in their work, not as preparation for more advanced courses. EPID INTL HLTH

185A. Probability & Statistics. (4) F. Pre-requisite: Working knowledge of algebra. Lecture 4 hours. Staff
   Biostatistics 185A and 185B are conceptually oriented introduction and preparation courses for more advanced work. Topics covered include roles of statistical ideas and methods, descriptive statistics, probability, random variables, sampling, estimation, confidence intervals, and hypothesis testing, primarily concerning population means. EPID INTL HLTH

185B. Probability & Statistics. (4) W. Lecture 4 hours. Staff
   Continuation of Biostatistics 185A. Course covers one- and two-factor analysis of variance, linear regression analysis with one and two independent variables, elementary nonparametric methods, simple chi-square tests, and other topics. EPID INTL HLTH

198. Supervised Study. (1-5) Su, F, W, Sp. Staff
   Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. EPID INTL HLTH

201. Analysis of Qualitative Data. (3) Sp. Pre-requisite: Biostatistics 185A-B or equivalent. Lecture 3 hours. G. Fein
   Course will focus on data analysis of studies in which summary statistics are rates and proportions. Topics include sample size, cross sectional study design and analysis, prospective samples and misclassification errors. EPID INTL HLTH

210A. Regression Analysis & ANOVA. (3-4) F. Pre-requisite: Biostatistics 185A-B or equivalent. Lecture 3 hours. Lab optional 0-3 hours. Staff
   Course covers the use of multivariable regression techniques, focusing on the choice of technique and interpretation of results rather than on mathematical development of the methods. Design of experiments is stressed with appropriate emphasis on power analysis. EPID INTL HLTH

210B. Regression Analysis & ANOVA. (3-4) W. Lecture 3 hours. Lab optional 0-3 hours. Staff
   Continuation of the material and approach of Biostatistics 210A. Topics include analysis of variance and co-variance (primarily from a regression standpoint), repeated measures

Biophysics

200. Off-Campus Study. (0) W. Pre-requisite: Approval of the graduate adviser. Open only to students enrolled in the graduate program in Biophysics.
   Full-time graduate study in the biophysics program through the intercampus exchange or consortium program. BIOCHEM

*See the Biophysics and Medical Physics Group Program in the Graduate Division Bulletin.
analysis of variance, and regression analysis of a dichotomous response variable. EPID
INTL HLTH

213. Multivariate Methods. (3) § Sp. Prerequisite: Biostatistics 210A and 210B or
equivalent. Lecture 3 hours. Hellbron

Course covers classical multivariate methods such as canonical correlation, multivariate
analysis of variance, principal components, and discriminant analysis. Emphasis is on ap-
lication and interpretation of these procedures with real data. EPID INTL HLTH

220. Selected Topics. (2 or 3) § F, W, Sp. Lecture 2 or 3 hours. Staff

Course will cover topics such as statistical methods for failure time data; statistical ep-
idemiology; logic and practice of scientific inquiry; EPID INTL HLTH


EPID INTL HLTH

270. Nonlinear Regression. (2) § Sp. Prerequisite: Biostatistics 210A or equivalent.
Offered in alternate years. Not offered 1984-85. Lecture 2 hours. Beal

Nonlinear regression models. Maximum likelihood, least squares and robust parameter esti-
mation methods. Numerical iterative techniques for implementation of these methods. Confidence sets and hypothesis tests. Examination of statistical asymptotic theory. Practice with analyzing actual data with computer programs. EPID INTL HLTH

297. Special Study. (1-3) § F, W, Sp. Conference 1-3 hours. Staff

Reading and conferences for qualified students under the direction of a member of the staff. EPID INTL HLTH

Chemistry

113. Organic Chemistry. (3) F, W. Prerequisite: Chemistry 112 or passing grade in the
Chemistry 112 equivalency examination. Lecture 3 hours. Castagnoli

A continuation of the study of compounds of carbon including some aromatic, hydro-
aromatic, and heterocyclic compounds. PHARM CHEM

115. Physical Chemistry. (5) F. Prerequisite: Chemistry 5 or equivalent laboratory course
in quantitative analysis and differential and integral calculus. Lecture 4 hours. Conference and demonstration 3 hours. Shetlar,

Elementary physical chemistry with emphasis on thermodynamics. PHARM CHEM

116. Physical Chemistry. (2) W. Prerequisite: Chemistry 115 or equivalent. Lecture 1 ½ hours. Conference and demonstration 1 ½ hours T. James

Elementary physical chemistry with emphasis on chemical kinetics. PHARM CHEM

117. Organic Chemistry Laboratory. (2) F, Sp. Prerequisite: Chemistry 12, 16 and con-
current enrollment in Chemistry 113, or consent of instructor. Conference 1 hour. Lab 4 hours.

Laboratory experiments in identification and quantification of organic substances. PHARM CHEM

151. Physical Chemistry. (1-3) Sp. Prerequisite: Consent of instructor. Lecture 1-3

Selected topics at an introductory level, which vary from year to year. Past topics in-
cluded structure of nucleic acid and proteins, quantum chemistry, and spectroscopy. PHARM CHEM

158. Physical Chemistry Laboratory. (1) Sp. Prerequisite: Chemistry 115 and 116. Lab
3 hours. Dill, Shafer.

Laboratory exercises in spectroscopy. PHARM CHEM

160. Advanced Physical Chemistry. (3) § W. Prerequisite: Two quarters of physical
chemistry or consent of instructor. Lecture 3 hours. Shater

Chemical thermodynamics. PHARM CHEM

161. Advanced Physical Chemistry. (3) § Sp. Prerequisite: Chemistry 116 or equivalent. Lecture 3 hours. Shafer, Dill

Theory and applications of chemical kinetics. PHARM CHEM

162. Advanced Physical Chemistry. (4) § F. Prerequisite: Chemistry 151 or equivalent.
Knowledge of differential equations recommended. Lecture 4 hours. Kollman

Quantum mechanics and applications to molecular problems. PHARM CHEM

165. Organic Chem-Analytical Meth. (4) § F. Prerequisite: Chemistry 113. Lecture 1 hour. Lab 9 hours. Kahl, Ketcham

A study of the reactions of organic com-
ponents by applying a system of qualitative analyses to the determination of characteristic groups. PHARM CHEM

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 chairperson of the department. PHARM CHEM

199. Laboratory Project. (1-5) F, W, Sp. Staff

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

202. Advanced Organic Chemistry. (3) § Sp. Prerequisite: Chemistry 113, 116, and 165
or equivalent. Lecture 3 hours. Oppenheimer

A study of the detailed processes associated with organic reactions. PHARM CHEM
Clinical Laboratory Science

200. Off-Campus Study. (0) § W. Prerequisite: Approval of the graduate advisor. Open only to students enrolled in the graduate program in Clinical Laboratory Science. Staff

Full-time graduate study in the Clinical Laboratory Science program through the intercampus exchange or consortium program. LAB MED

201A-B. Clinical Chemistry. (2-2-2) § F, W, Sp. Prerequisite: Degree in Chemistry or Medical Technology license. Lecture 2 hours. Nussenbaum

Principles and evaluation of chemical laboratory methods used to diagnose abnormalities in metabolism and organ function. LAB MED

207. Enzymology. (2) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Staff

The fundamental concepts of enzyme kinetics are reviewed; enzyme measurement and automation; enzyme profiles in various diseases and specific enzyme methodology are presented. LAB MED

209. Quality Control. (2) § F, W, Sp. Prerequisite: Enrollment in Clinical Laboratory Science master's program. Barr

A review of principles of statistics and their application to quality control in the clinical laboratory; legal aspects of quality control, preventive maintenance. LAB MED

210A-B. Clinical Pathology Seminar. (1-1) § F, W. Prerequisite: Consent of instructor. Seminar 1 hour. Staff

Specialists on various established and proposed laboratory tests will present interpretation and evaluation of tests as related to pathophysiology. LAB MED

211. Laboratory Computer Applications. (2) § F, W or Sp. Prerequisite: Enrollment in Clinical Laboratory Science master's program. Lecture 2 hours. Barr

Applications of computer science in collecting, storing, analyzing, and reporting data in a clinical laboratory. Statistical quality control methods will be discussed. Practical computer programming instruction and experience, using FORTRAN, will be stressed. LAB MED

215. Clinical Toxicology. (2) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. P. Reynolds, McKinie

Course introduces students to the implications as well as the systemic schemes and specific techniques of volatiles, acidic, neutral, and basic drugs, metals, and miscellaneous drugs and toxic agents encountered in clinical and forensic laboratories. LAB MED

216. Clinical Toxicology. (2) § F, W, Sp. Prerequisite: Consent of instructor. Nussenbaum

Course is given as a three-week internship in one of the most active toxicology laboratories in the Bay Area. LAB MED

218. Clinical Immunology. (2) § F, W, Sp. Prerequisite: California Medical Technology license or the qualifications necessary to obtain that license. Lecture 2 hours. Casavant

Course devoted to clinical immunology including testing and interpreting results leading to diagnosis of immunologic diseases; currently part of core curriculum offered to residents in Laboratory Medicine. Graduate students will be given lecture material, assigned reading, examination on immunologic testing. LAB MED

219. Quality Control II. (2) § F, W, Sp. Prerequisite: Clinical Laboratory Science 209. Lecture 2 hours. Beal

Course devoted to theoretical and practical aspects of quality assurance. The following topics will be discussed, in addition to a review of basic statistics: reference range computation, assay-comparison, quality control methods, calibration. Current laboratory

Clinical Dentistry


Responsibility for patient dental care in the wards and comprehensive clinic under the direction of the attending staff. Dental consultations and treatment are coordinated with medical care. Residents take histories and perform physical examinations, laboratory tests, and dental treatment. STOMATOLOGY

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practices will be considered throughout. LAB MED.


Principles of clinical laboratory methods for diagnosis of infectious disease will be reviewed. Newer detection methods such as immunofluorescence, radioimmunoassay, gas chromatography will be examined. In vitro methods of susceptibility testing and assay of antimicrobials will be discussed. LAB MED.


298. Thesis. (0) § F, W. Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff. For graduate students engaged in writing the thesis for the master’s degree. LAB MED.

Clinical Pharmacy

110. Orientation. (2) Conference and field observation 3-4 hours. R. Levin.

An introduction to the scope of pharmaceutical practice including field trips to and participation in various settings where the pharmacist and patient interact. CL PHARM.

130. Therapeutics. (6) F. Prerequisite: Successful completion of all required first- and second-year courses or consent of instructor. Lecture 5 hours. Conference 2 hours. Guglielmo, Kudzia.

Orientation to selected areas of medical practice, the clinical evaluation and comparison of drugs used in these areas, and the bio-pharmaceutics of drug combinations and products. CL PHARM.

131. Therapeutics. (6) W. Prerequisite: Clinical Pharmacy 130 or consent of instructor. Lecture 5 hours. Conference 2 hours. L. J. Davis, L. Hart.

Continuation of Clinical Pharmacy 130. CL PHARM.

132. Therapeutics. (7) Sp. Prerequisite: Clinical Pharmacy 131 or consent of instructor. Lecture 6 hours. Conference 2 hours. Barriere and Staff.

Continuation of Clinical Pharmacy 131. CL PHARM.


Clinical aspects of nutrition in ambulatory and institutional practice with emphasis on special needs of different populations. Nutritional supplements, enteral and parenteral products will be discussed as they apply to these populations. CL PHARM.

134. Public Health Programs. (2) Sp. Prerequisite: Third- or fourth-year standing for Pharmacy students (required course); consent of instructor for other students. Lecture 2 hours. Kishi, Herfindal.

Survey of major world health problems, and programs and agencies concerned with their control. Relationships of pharmacy to topics such as emergency medical services, communicable diseases, nutrition, sanitation, occupational health, maternal and child hygiene, mental health, and public health administration. CL PHARM.


Orientation to clinical services including patient interview techniques and monitoring; training and actual experience in literature retrieval, analysis and dissemination of drug information. CL PHARM.


Continuation of Clinical Pharmacy 135A. CL PHARM.

148A. Inpatient Clinical Clerkship. (9) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination. Clinical 40 hours per week for six weeks. Kayser and Staff.

Supervised clinical pharmacy experience in an inpatient setting. Students develop and explore their roles in an interdisciplinary health care team, take medication histories, monitor drug therapy, provide patient education, and research patients’ specific drug information questions. CL PHARM.

148B. Inpatient Clinical Clerkship. (9) F, W, Sp. Prerequisite: Clinical Pharmacy 148A. Clinic 40 hours per week for six weeks. Kayser and Staff.

Continuation of Clinical Pharmacy 148A. CL PHARM.

148.01A. Inpatient Clerkship–UCSD. (9) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination. Clinical 40 hours per week for six weeks. Adler and Staff.

Supervised clinical pharmacy experience in an inpatient setting. Students develop and explore their roles in an interdisciplinary health care team, take medication histories, monitor drug therapy, provide patient education, and research patients’ specific drug information questions. CL PHARM.

148.01B. Inpatient Clerkship–UCSD. (9) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 148A. Clinic 40 hours per week for six weeks. Adler and Staff.

Continuation of Clinical Pharmacy 148.01A or Clinical Pharmacy 148A. CL PHARM.
148.02A. Inpatient Clerkship—UCI & MHLB (9) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination. Shimomura and Staff

Supervised clinical pharmacy experience in an inpatient setting. Students will develop and explore their roles in an interdisciplinary health care team, take medication histories, monitor drug therapy, provide patient education, and research patients' specific drug information questions. CL PHARM

148.02B. Inpatient Clerkship—UCI & MHLB (9) F, W, Sp. Prerequisite: Clinical Pharmacy 148.02A. Shimomura and Staff

Continuation of Clinical Pharmacy 148.02A. CL PHARM

149. Ambulatory Externship/Clerkship. (13) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination. A. Leeds and Staff

Supervised clinical experience in an outpatient setting. Students develop and explore their roles in an interdisciplinary health team, take medication histories, monitor drug therapy, and provide patient education. Experience in community pharmacies. CL PHARM

149.01. Ambulatory Externship/Clerkship—UCSD. (13) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination. Weibert and Staff

Supervised clinical experience in an outpatient setting. Students develop and explore their roles in an interdisciplinary health team, take medication histories, monitor drug therapy, and provide patient education. Experience in community pharmacies. CL PHARM

149.02A. Amb Externship/Clerkship—UCI & MHLB (6½) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination. Shimomura and Staff

Supervised clinical experience in an outpatient setting. Students develop and explore their roles in an interdisciplinary health team, take medication histories, monitor drug therapy, and provide patient education. Experience in community pharmacies. CL PHARM

149.02B. Amb Externship/Clerkship—UCI & MHLB (6½) F, W, Sp. Prerequisite: Clinical Pharmacy 149.02A. Shimomura and Staff

Continuation of Clinical Pharmacy 149.02A. CL PHARM

155.10. Pharmacy Systems. (3) F, W, Sp. Prerequisite: Third-year standing or higher. Lecture 1 hour: Conference and special project 6 hours.

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

155.20. Drug-Induced Disease Problems. (3) F, W, Sp. Prerequisite: Pathology 135. Third-year standing or higher. Lecture 2 hours. Special project 4 hours.

The phenomena of iatrogenic diseases will be studied with major emphasis on their significance, pathology and management. Assessment of collection and analytic methods of adverse drug reaction information and evaluation of literature will be considered. Special projects will be assigned. CL PHARM

155.30. Infectious Diseases Topics. (3) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Lecture and seminar 3 hours. Barriere

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

170. Group Studies. (1-4) F, W, Sp. Prerequisite: Consent of instructor. Staff

Group studies of selected topics in clinical pharmacy. CL PHARM

175.01. Inpatient Pediatrics—UC (1-8) F, W, Sp. Prerequisite: 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 patients’ response to drug therapy; attendance at conferences, seminars and rounds; and participation in selected therapeutic consultations. CL PHARM

175.02. Renal Medicine—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor.

Gambertoglio

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

175.03. Infectious Diseases—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor.

Barriere

Students review Infectious Disease Service therapeutic consultations and evaluate patients’ response to recommended therapy by following chart records and by direct interviews. Students attend conferences, seminars and rounds. Special projects assigned. CL PHARM


Winter

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


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

175.22. Infectious Diseases—VAM. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor.

Winter, Woo, Gee

Students gain experience on the Infectious Disease Consult Service. Activities include rounds, medication consultations and provision of pharmacokinetic monitoring. CL PHARM


Students observe, interview, evaluate drug therapy, interact with patients in acute phases of psychiatric disorders, accompany unit physicians to court, attend interdisciplinary team conferences, and make specific comments on drug therapy. CL PHARM

175.25. Inpatient Medicine—VA. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor.

Winter, Nagata and Staff

Experience in various medical services at VA. Activities include interviewing patients, monitoring drug therapy, consultation with house staff, and participation in conferences, seminars and rounds. Special projects assigned. CL PHARM

175.28. Inpatient Medicine—MM. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Winter, Chann

Experience in various medical services at a private community hospital. Students interview patients, monitor drug therapy, consult with house staff and nursing service, and prepare drug information reports appropriate to patient care. CL PHARM

175.30. Clinical Pharmacology—SFGH. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Olson

Students, in an interdisciplinary setting, assess clinical problems relating to the selection, pharmacodynamics and therapeutic merits of drugs and drug products. Activities include participation in rounds and conferences, collaboration on selected consultations, and retrieval and evaluation of drug literature. CL PHARM


Students participate in the activities of the Division of Clinical Pharmacology. Activities include utilization of computerized patient drug profiles to monitor adverse drug reactions, and participation in conferences and seminars. Special projects assigned. CL PHARM

175.33. Inpatient Family Practice—SFGH. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A. Consent of instructor. Dong

Students participate in the activities of the Family Practice Inpatient Service. Students will be responsible for drug surveillance, drug monitoring, management consultations, and patient education. A minimum of two patient-specific drug consultations is required. CL PHARM

175.37. Inpatient Psychiatry—VA. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149B. Consent of instructor. Winter, Buffum, Liesenborg, Stefan

Students participate on the inpatient acute care psychiatric ward. Activities include monitoring and interviewing patients, participation in team meetings, conferences, and pharmacy medication classes, presenting inservice programs to psychiatric staff. CL PHARM
175.40. Thyroid—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Dong
Students participate in the activities of the Thyroid Clinic, including patient monitoring, attendance at conferences and seminars. Work under supervision of the clinical pharmacists and physicians in the chronic management of selected patients. CL PHARM

Experience in various subspecialty areas in the Dermatology Clinic. Students take medication histories, and instruct patients on proper medication usage. They participate in conferences, seminars and rounds, and provide therapeutic consultations where appropriate. Special projects assigned. CL PHARM

175.42. Ob-Gyn—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Winter, Ruggiero
Experience in various subspecialty areas in the Obstetrics and Gynecology Clinic. Students work with other health professionals and students in the clinic, participating in conferences and seminars. Prepare detailed consultations regarding drug therapy where appropriate. CL PHARM

175.43. Diabetes—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. M. Kimble
Students participate in the activities of the Diabetes Clinic, including patient education, drug therapy consultation and management, and attendance at conferences and seminars. At option of student, a special project may be undertaken in addition to regular clinic activities. CL PHARM

175.44. Tropical Medicine—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Koo
Students participate in the activities of the Tropical Medicine Clinic. Emphasis is placed on patient interviews and rational treatment of parasitic diseases. Special project is optional. CL PHARM

175.45. Anticoagulation—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Kayser
Students participate in the activities of the Anticoagulation Clinic. Special project is required, the subject of which shall be chosen by the student, with the consent of the preceptor. CL PHARM

175.46. Hematology/Oncology—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Ignoffo
Students participate in the daily activities of the Hematology-Oncology and/or Oncology Clinics. Special project is required. CL PHARM

175.47. Rheumatology—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. A. L. Leeds
Students participate in the activities of the Rheumatic Disease and/or Arthritis Clinics. Special project is required, the subject of which shall be chosen by the student, with the consent of the preceptor. CL PHARM

175.60. Ross Valley Pharmacy Clerkship. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, and 132. Consent of instructor. Winter, Loholm
Students interview patients, maintain medication records, explain medication usage to patients, and answer drug therapy questions generated by physicians, pharmacists and patients in a pharmacy located within a group medical practice. CL PHARM

175.61. Co-op Pharmacy Clerkship. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, Kamil, Olaways
Students take patient medication interviews, explain medication usage to patients, and answer drug therapy questions generated by physicians, pharmacists and patients in a community pharmacy setting. CL PHARM

Students work with the clinical pharmacist to evaluate psychiatric patients' response to drug therapy, and present consultations reviewing overall patient therapeutic management in weekly seminars. CL PHARM

175.64. Haftight Heroin Detox Unit Clerksh. (1-8) F, W, Sp. Prerequisite: Consent of instructor. Winter, Inaba
Students work as co-therapists under the supervision of the clinical pharmacist and physicians to develop individual therapy plans for drug detoxification. Where needed, students develop detailed drug information reports appropriate to specific patient care. CL PHARM

Practical experience in a hospital-owned community pharmacy offering progressive patient-oriented services, including drug monitoring, establishment and maintenance of medical profiles, patient counseling, drug information and inservice education. CL PHARM

175.68. Senior Medication Education Prog. (1-8) F, W. Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, K. Eng, L. Eng, Leung

Students consult patients and interns. CL.

175.70.5 (1-8) F, W, 148A or 149A

Students in nursing and pharmacy therapy at receiving. CL

175.80.1 Sp. Prereq. 132

Students in various did. CL

175.82.1 F, W, Sp. F 131 and 132

An intro to profession. CL

175.83.1 (1-8) F, W, 130, 131

Students in various med. CL

175.88.1

Students in various med. CL
Students provide patient education and consultation to seniors and senior providers. Students will be able to utilize their skills, knowledge, and on-site training to prevent and intervene in geriatric drug misuse problems. CL PHARM


Students gain experience in both the skilled nursing facility and Pharmaceutical Services Pharmacy. Activities include evaluating drug therapy and other consultative roles in skilled nursing facility service, participation in unit dose medication system, and researching drug information. Special project required. CL PHARM


Students participate in IV fluid therapy selection and preparation, and monitor patients receiving intravenous medications. Conferences are held on topics related to problems in the use of intravenous fluid therapy in various disease states. CL PHARM

175.82. IV Additives Clerkship—VA. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, Kikugawa.

An introduction to the administrative, professional and technical aspects of establishing and maintaining IV additive service. Students will participate in workshops and conferences. CL PHARM


Students participate in a centralized IV admixture and unit dose systems of distribution, with involvement in the decentralized clinical activities, including patient profile reviews. CL PHARM

175.84. Drug Utilization Review—VAM. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Winter, Woo, J. Gee.

Students participate in establishing and presenting the protocol for a drug utilization review. Students will complete the study during the rotation, and present results to the physicians and other disciplines involved. CL PHARM


Practical experience in a community hospital pharmacy unit dose system. Conferences are held on topics related to the principles and theory of the unit dose system, drug therapy problems encountered in monitoring and interprofessional relationships. CL PHARM


Advanced experience in drug information retrieval and analysis. Activities include participation in conferences, seminars and selective teaching assignments in Clinical Pharmacy 135. Special projects assigned. CL PHARM


Experience in collection, evaluation and dissemination of drug information in a community-based drug information service. Activities include answering drug information requests from community practitioners. CL PHARM


Students observe and participate in a business/professional environment to understand the role of such an organization in delivery of optimal, cost-effective health care. Special emphasis on delivery of pharmaceutical services. CL PHARM

176.01. Nephrology—UCSD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. D. Adler and Staff.

Students participate in the Renal Consult Service, Hemodialysis Unit and in the Renal Clinic with the medical and nursing staff. A special project selected by the student will be required. CL PHARM

176.02. Pulmonary Medicine—UCSD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. D. Adler and Staff.

Students participate in the activities of the Pulmonary Medicine Consult Service, Chest Clinic and Asthma Clinic associated with the Pulmonary Division at University Hospital. CL PHARM

176.03. Neonatal Care—UCSD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. D. Adler and Staff.

Students participate in the nursery’s morning rounds, attending high risk infant transportation and delivery. Students will read and evaluate current neonatal literature, and provide drug-related information to medical staff and parents. CL PHARM


Students participate in the activities of the Inpatient Pediatric Service. Activities include routine review of patient’s charts, monitoring patients’ response to drug therapy, attendance at conferences, seminars and rounds, and
participation in selected therapeutic consults.

CL PHARM

176.05. Psychiatry—UCSD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. D. Adler and Staff

Students participate in the Inpatient Psychiatric Service. A special project will be required, the subject of which shall be chosen by the student, with the consent of the preceptor. CL PHARM

176.81. Poison Information—UCSD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. Manoquerra and Staff

Students participate in the services provided by the Poison Information Center for San Diego County, including receiving calls concerning ingestions and treatments, and seminars for the public and various school groups. CL PHARM

176.82. Anticoagulation—VASC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. D. Adler and Staff

Students participate in the services of the Anticoagulation Clinic under the guidance of a clinical pharmacist. CL PHARM

176.83. Drug Information—UCSD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. P. Anderson

Students participate in the services provided by the Drug Information Service including receiving drug information requests, researching and writing formal responses. CL PHARM

185.05. Oncology—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Ignoffo

Students attend rounds, house staff management rounds and teaching conferences; learn techniques utilized in caring for patients with hematologic or solid tumors. Emphasis on acute care of cancer patient; anti-emetism and pain control; hydration; treatment of hypercalcemia and infections. Project. CL PHARM

185.06. Cardiothoracic Surgery—UC. (1-8) F, W, Sp. Prerequisite: Fourth year standing and consent of instructor. Guglielmo

Students are responsible for patient interviewing, monitoring, rounds, and drug consultation. Patients are primarily pediatric with congenital heart defects and adults undergoing aorta-coronary bypass grafts and cardiac valve replacement. CL PHARM

185.07. Neonatal ICU—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor. A. Wong

Participate in activities of Neonatal ICU, including patient monitoring, rounds, drug consultation, and utilization. Patients are primarily premature and newborn infants with congenital heart defects. Work under supervision of clinical pharmacist in management of these patients. CL PHARM


Students attend rounds, interview patients and take medical histories, monitor and evaluate drug therapy, anticipate and identify drug therapy problems, provide patient with specific information to health team members, provide drug and health information to patients, document clinical services. CL PHARM


Students attend rounds with the Infectious Disease Service, evaluate antibiotics selection and patients' response to therapy, serve as drug consultant to medical staff on the service. A special project relating to some aspect of infectious disease and its therapy will be completed. CL PHARM

185.27. Burn Unit—STF. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. M. Kimble, Damato, Jansen

Students work in Burn Unit satellite, monitoring patients' wound cultures, antibiotic therapy and drug serum levels, renal function, nutritional status, and pain management. Students are involved with patients from surgical intervention through rehabilitation. CL PHARM
Students work with clinical pharmacist in ICU, monitoring patient drug therapies throughout intensive illness course. Diseases of patients include acute failure of any physiological system including cardiovascular, renal, hepatic, neurologic, and pulmonary. CL PHARM

185.32. Intensive Care—VAM. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A and/or consent of instructor. Winter, Woo, J. Gee
Attendance and participation in clinical activities in the Intensive Care Unit. Activities may include rounds with pulmonary, cardiology or surgical ICU teams, monitoring drug therapy, pharmacokinetic monitoring of selected medicines, and working with various health care professionals regarding medicine use and misuse. CL PHARM

Students participate in the clinical activities of the Pharmacy Department. A special project is required, the subject of which shall be chosen by the student, with the advice and consent of the preceptor. CL PHARM

185.35. Inpatient Psychiatry—VAM. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Winter, Woo, J. Gee
Students participate in the activities of the Inpatient Psychiatry Service. Upon completion, students shall demonstrate the ability to function as a clinical pharmacist in an inpatient psychiatric setting. CL PHARM

Detoxification and management of alcoholism and poly-drug abuse. Emphasis on methods of acute detoxification and support services in rehabilitation of patients, including responsibilities of health care team members and consideration of physical and psychological consequences. CL PHARM

185.39. Oncology-Nutrition Support—STF. (4-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B and/or consent of instructor. M. Kimble, Honda
Students work on the Oncology Unit monitoring patients on chemotherapy, nutrition support, pain control and antibiotic therapy. Students will gain in-depth knowledge of the role of the clinical pharmacist in a private hospital Oncology Unit. CL PHARM

Participation in activities of the family planning clinic, including patient screening, education, evaluation, and dispensing of contraceptive methods and treatment therapies. Student will prepare a minimum of two patient education handouts. CL PHARM

185.66. Women’s Health Center. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor. Winter, Inaba, Fox, Dillon
Students participate in functions of family planning gynecological clinic, including management and handling of pharmaceuticals, monitoring BCP users under NP supervision, and participating in specialty projects. CL PHARM

185.67. Extended Care—Marin Cnty. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, Robertson
Students interview patients, monitor drug therapy, provide nursing inservice education, provide drug information consultations to physicians, and conduct drug utilization and adverse drug reaction studies. Students continuously document activities and findings and submit a written report. CL PHARM

185.69. Skilled Nursing/Pharmaceutical Serv. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. M. Kimble, J. Kaufman, Caron
Students participate in activities of a skilled nursing facility pharmacy practice. Included are clinical and dispensing activities in the twelve facilities in the Sacramento area, as well as the legal responsibilities of the pharmacist as consultant in skilled nursing facilities. CL PHARM

Students gain experience managing medical problems of adult and adolescent patients at three jail sites; participate in daily clinic, medical screening, patient monitoring, conferences. Optional administrative or clinical project. CL PHARM

185.73. SNF & Comptr Science—Careo Corp. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, Caron
Students work under direct supervision of consultant pharmacist in skilled nursing facility patient care. Experience in computer science fundamentals relating to data screening, processing, and computer programming is also included. CL PHARM

185.81. Shield Health Care—Berkeley. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor. Winter, Dishman
Students participate in selected areas of a home health care pharmacy, developing skills
in the areas of TPN, enteral nutrition, and diabetic training. Opportunity for experience with drug requirements for spinal cord patients also available. CL PHARM


McCart

Students design a prospective drug utilization review study. After receiving introductory material about purpose and value of such studies, students gather, evaluate and interpret data for a written report suitable for publication in the Hospital Pharmacy Bulletin. CL PHARM


Students participate in the activities of the Drug Information Service including answering drug related questions, writing a newsletter, and drug review. Students work under supervision of the director for drug information. CL PHARM

186.06. Clinical Pharmacokinetics—UCSD (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149 and/or consent of instructor. D. Adler, J. Lane

Discussion and review of pharmacokinetic principles in drug therapy relating to clinical cases at UCSD, including computer modeling, specific consults, and lectures to medical and nursing staff. A special project is assigned. CL PHARM

186.07. Burn and Trauma Center—UCSD (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149 and/or consent of instructor. D. Adler, P. Anderson

Participation in activities of Burn Unit including patient drug therapy monitoring, developing antibiotic therapy dosing recommendations, observing surgical and burn care procedures, conferences, seminars, and staff support conferences. Pharmacy conference and special project assigned. CL PHARM

186.59. Medical Specialties—UCSD (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. Consent of instructor. D. Adler and Staff

Exploration of the potential service roles of clinical pharmacists in various medical specialty settings. CL PHARM

187.01. Oncology—MILHB (1-8) W, Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor. Shimomura, Diamant, Towne

General orientation to the most frequently occurring diseases of oncology and hematology. Emphasis on developing working knowledge of chemotherapeutic agents. Emphasis on application of chemotherapy to oncologic diseases, preparation and administration of agents, side effects and toxicity, applicable pharmacokinetic calculations. CL PHARM

187.02. Pharmacokinetics—MILHB (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor. Shimomura, Harrison

Participation in all aspects of clinical pharmacokinetics service including information, consultations, and drug dosing regulations, under approved protocols. Involvement in analysis and evaluation of serum drug levels, particularly in patients with altered drug disposition. CL PHARM

187.03. Anticoagulation—MILHB (1-8) W, Sp. Prerequisite: Clinical Pharmacy 148A and consent of instructor. Shimomura, R. Cook

Participation in application of heparin and warfarin guidelines, which involve dosage adjustment, clinical assessment, data collection, medical audit. Students learn about management of patients with thromboembolic diseases through conferences, selected readings and clinical participation. CL PHARM


Participation in patient care rounds, monitoring case presentations, pharmacokinetic evaluations, literature research, and CPRs in neonatal and pediatric patients. Major pediatric disease states and appropriate drug therapy will be reviewed daily. Six to ten hours of medical seminars each week. CL PHARM

187.05. Psychiatry—UCI (1-8) W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Shimomura, Plon

Active involvement with patients and staff in acute care mental health facility. Students interview, interact with, and monitor patients. Thorough background into various forms of mental disorders, treatment and role of pharmacist will be presented. CL PHARM


Students participate in activities of neonatal intensive care unit and inpatient pediatric services, monitoring patients, attending rounds and conferences. Emphasis will be on acute inpatient pediatric medicine and neonatology under supervision of pediatric clinical pharmacist and pediatricians. CL PHARM


Students participate in activities at the Jules Stein Eye Institute, which include patient monitoring, attendance at conferences and seminars, and dispensing of ocular medications. Students work under the supervision of the pharmacist preceptor in learning the management of common diseases of the eye. CL PHARM

Shimomura, R. Thomas

Students participate in activities of emergency room and become familiar with the role of the pharmacist in this setting. Emphasis is on managing emergency conditions such as drug overdose, diabetic ketoacidosis, trauma, and cardiac arrhythmia. CL PHARM


Shimomura, Shukur

Students observe and participate in activities of the pharmacy and developmental services at the hospital. Emphasis is on diagnosis and management of neurological and genetic diseases such as seizure disorders and mental retardation. CL PHARM

187.10. Long-Term Care Facilities. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor.

Shimomura, Tobias

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


Students participate in rounds with clinical pharmacists. They are involved in monitoring TPN solutions, screening patients with positive culture results to assure appropriate antimicrobial selection and dosage, adjusting serum levels of selected agents. CL PHARM


Shimomura, Luna

Students exposed to psychopharmacology and participate in clinical pharmacy activities of a state psychiatric hospital; become familiar with federal and state regulations affecting pharmacy practice in skilled nursing, intermediate care, and acute psychiatric care facilities. CL PHARM

187.60. Home Care—Pharm Enterprises Inc. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, and 132 and consent of instructor. Shimomura, Martinez, Henry

Students round with health care team in hospitals, extended care facilities, and homes. Involved with monitoring total parenteral nutrition, chemotherapy, pain management, antibiotic therapy, and related services for home care patient. CL PHARM


Students will be provided the opportunity to develop the skills required to work in a drug information service, which includes organization and retrieval of drug information, drug literature evaluation, and effective verbal and written communication. CL PHARM

187.81. IV Additives—UCI. (1-8) F, W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Shimomura, Ming

Students participate in the 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, prefill syringe programs, home hyperalimentation and piggybacks. CL PHARM

187.82. Drug Information—UCI. (1-8) W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Shimomura, Vahed

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 information requests received by the center, students will be expected to demonstrate competence in drug literature evaluation and drug information retrieval skills. CL PHARM


Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. CL PHARM


Herfindal, Beste and Staff

Residents provide pharmacy service to patients in the wards and outpatient clinics including taking drug use histories, preparing and monitoring medication profiles, providing drug use information and consultation, and related activities. In addition, there are administrative and teaching responsibilities. CL PHARM

451. Drug Information. (5) Su, F, W, Sp. Prerequisite: Resident standing and approval of program director. Herfindal, McCourt, Kayser

Residents provide drug information and consultation services on request. Activities include literature searches, preparing reports and other communications, and teaching and administrative responsibilities involving the Drug Information Analysis Service. CL PHARM
Diagnostic, preventive, and corrective methods relative to patients with congenital malformations of the orofacial region are discussed. GR DEVEL

171.22. Craniofacial Anomalies. (2) W. Sp. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Lecture 2 hours. **Vargervik**

Demonstration of various types of craniofacial anomalies, assessment of growth and development of abnormal and normal craniofacial structures, diagnosis and evaluation of the more common anomalies and associated impaired functions and therapeutic needs of the individual patient. GR DEVEL.

186.01. Abnormal Orofacial Development. (1) F, W, Sp. Prerequisite: Four-year standing or consent of instructor. Seminar and clinic 3 hours. **Chierici, Vargervik**

The pathogenesis of jaw deformities, dental malocclusions, and speech disorders associated with congenital malformation is discussed. Instruction in diagnosis and preventive and corrective treatment methods is given in the clinic. GR DEVEL.

**Dental Health Education**

150. Intro to Dental Health Education. (2) F Lecture 2 hours. **Poupar**

An introduction to theories of learning and educational methodology as applied to clinical practice of dental hygiene. Development and implementation of individualized preventive programs for dental patients are emphasized. DENT PUB HLTH

160. Community Dental Health. (2) W. Prerequisite: Dental Health Education 150A. Lecture 2 hours. **Francisco**

Explores alternative, non-clinical roles for dental hygienists while introducing the student to program planning, implementation, evaluation, and financing theories. Students are given the opportunity to develop program planning and evaluation skills with a selected community dental health education field project. DENT PUB HLTH

161. Curriculum Planning & Design. (3) F Lecture 3 hours. **M. Walsh**

Analysis of theories and research in education emphasizing teaching strategies, evaluation methods, and principles of curriculum development for use in planning educational programs in schools of dental hygiene. Includes a field study for application and evaluation of selected teaching interactions. DENT PUB HLTH

198. Supervised Study. (1-5) F, W, Sp. Prerequisite: Dental Health Education 150A-B, 160A-B, and Biostatistics. **Francisco**

Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. DENT PUB HLTH

199. Laboratory Project. (1-5) F, W, Sp. Prerequisite: Dental Health Education 150A-B and 160A-B. Lecture 1 hour. Lab 0-12 hours. **Francisco**

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. DENT PUB HLTH.
Dental Hygiene

109. Clinical Dental Hygiene. (1-2) SS. Prerequisite: Dental Hygiene 155A-B, 159, and approval of the chairperson of the division. Clinic 3-6 hours.

150A-B-C. Introduction to Dental Hygiene. (2-2-2) F, W, Sp. Lecture 2 hours.

Heckman
Role of dental hygienist in dentistry studied, emphasis on objectives and principles of preventive periodontal treatment procedures. Various procedures and their rationale are integrated as related to clinical skills. Introduction to anatomy, physiology and pathology of oral cavity is included. DENT PUB HLTH

151. Orientation to Dentistry. (1) Sp. Lecture 1 hour.

Francisco
Introduction to dental specialties and clinical dental procedures. Topics to be covered include oral diagnosis, operative dentistry, pedodontics, endodontics, myofunctional therapy, and head and neck cancer management. DENT PUB HLTH

152. Introduction to Research. (1) Sp. Prerequisite: To be taken concurrently with Dental Public Health and Hygiene 121. Lecture 1 hour.

Poupaud
Concomitant with Dental Public Health and Hygiene 121, each student will prepare an annotated bibliography on a research topic of choice. DENT PUB HLTH

155A-B. Intro to Clinical Dental Hygiene. (2-2) F, W. F: Lab 3 hours. Clinic 3 hours. W: Lab 6 hours.

Heckman
Laboratory and clinical experiences in patient evaluation, record keeping, case presentation and instrumentation techniques for providing prevention-oriented dental hygiene treatment. DENT PUB HLTH

155.01A-B. Clinical Dental Hygiene Seminar. (0-2, 0-2) F, W. Francisco and Staff
Clinical laboratory seminar to discuss clinical procedures and patient management following Dental Hygiene 155A-B. DENT PUB HLTH

159. Clinical Oral Prophylaxes. (2) Sp. Prerequisite: Dental Hygiene 155A-B. Clinic 6 hours.

Heckman
Continuation of clinical experiences from Dental Hygiene 155A-B with emphasis on improved proficiency in all areas. DENT PUB HLTH

159.01. Clinical Dental Hygiene Seminar. (½) Sp. Seminar 1 hour given in alternate weeks.

Francisco
Clinical seminar to discuss patient management and clinical procedures. DENT PUB HLTH

1608-C. Jurisprudence & Office Mgmt. (1, 2) W. Sp. Lecture 1 hour W; 2 hours Sp.

Hannenbrink
Introduction to the ethical, legal and professional responsibilities of the dental hygienist. Emphasis on the California Dental Practice Act, malpractice prevention and professional organizations. Integrated topics include practice management and career planning. DENT PUB HLTH

161. Orientation to Dentistry. (2) W. Pre. Prerequisite: Dental Hygiene 151. Lecture 2 hours.

Poupaud
Continuation of Dental Hygiene 151. Course includes tooth transplantation and implantation, orthodontics, oral surgery, craniofacial anomalies, maxillofacial rehabilitiation, and removable and fixed prosthetics. DENT PUB HLTH

162. Research Design. (2) F. Prerequisite: Dental Public Health and Hygiene 121. Lecture 2 hours.

Poupaud
Fundamentals of research design and the scientific method. Each student will expand her/his experiences from Dental Hygiene 152 and prepare a research protocol. DENT PUB HLTH


Francisco
Advanced clinical dental hygiene techniques including periodontal maintenance therapy, pain control, and soft tissue curettage in cases of moderate to advanced stages of periodontal disease. DENT PUB HLTH

169.01A-B-C. Clinical Seminar. (0-1, 0-1) F, W, Sp. Prerequisite: Concurrent enrollment in Dental Hygiene 169A-B-C. Lecture variable.

Francisco
Lecture and seminar in clinic policies and procedures, dental hygiene treatment planning, periodontal maintenance therapy, clinical photography and related topics. Students will give case presentations during winter and spring quarters. DENT PUB HLTH

188. Advanced Clinical Functions. (2) F. Lecture 1 hour. Lab 3 hours.

Hannenbrink
Study of the anatomical, physiological, pharmacological, and periodontal aspects of the administration of local anesthetics, nitrous oxide-oxygen sedation, and performance of soft-tissue curettage. Students obtain didactic and clinical experiences in these functions. DENT PUB HLTH

189. Independent Study. (0-4) F, W. Sp. Prerequisite: Second-year standing in dental hygiene and consent of instructor.

Francisco
Students select an area of interest for independent study or research. These may in-
clude clinical, community, educational, institutional, or other areas. DENT PUB HLTH

189.01. Mobile Clinic. (0-3) SS. Clinic variable. R. Miller
Clinical experience in mobile dental clinics. DENT PUB HLTH

189.02. Community Health Clinic. (0-2) F, W, Sp. Prerequisite: Winter or spring quarter standing of first-year dental hygiene curriculum; or fall, winter or spring quarter standing of second-year dental hygiene curriculum. Francisco

One-half unit of credit for every five three-hour visits made to off-campus clinics or institutions. Objective is to secure community experience and involvement. This elective is above the required eight visits to off-campus clinics and institutions. DENT PUB HLTH

199. Laboratory Project. (1-5) F, W, Sp. Lecture 1 hour. Lab 0-12 hours. Francisco
A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. DENT PUB HLTH

Dental Jurisprudence

180. Dental Practice Problems. (½) W. Lecture 1 hour for five sessions. F. Bradley
The course broadens student insight into the legal problems and obligations of dental practice. DENT PUB HLTH

Dental Public Health and Hygiene

The dentist as an entrepreneur; establishing a private practice, dental practice financing; credit management; management of a dental practice, code of ethics and ethical dilemmas; quality assurance; history of dentistry. DENT PUB HLTH

111. Problems in Dental Practice. (1) E Lecture 1 hour. Wycoff and Staff
Survey course designed to introduce the student to current social and professional problems in dentistry. Topics include identifying patient, community, national, and professional needs and how they are met. DENT PUB HLTH

116. Epidemiology & Preventive Dentistry. (1½) F. Lecture 1 hour. Lab 2 hours. Pollick and Staff
Lectures and lab in preventive dentistry; plaque control; diet analysis, fluoride history; evaluation indices; dental health and disease in children; data analysis; dental screening in San Francisco schools; dental health education. DENT PUB HLTH

120. Behavioral Sciences. (1) W. Lecture 1 hour. Fine
Introduction to the basic concepts, theories, and findings of the social sciences. Emphasis is on the application of these concepts and modes of reasoning to pressing social problems and the delivery of health services. DENT PUB HLTH

121. Research Design. (1) Sp. Lecture 1 hour. Wycoff
Basic principles of biostatistics. Introduction to the concept of experimental reliability, fundamental principles of sampling techniques, selection of data, and variability. The student will assess and evaluate various research protocols. DENT PUB HLTH

150. Dental Morphology. (2) F. Prerequisite: Concurrent enrollment in Dental Hygiene 150A. Lecture 2 hours. Hartman
The development and form of deciduous and permanent dentition and occlusion. Study of individual tooth and arch form to interarch relationships as well as endodontic morphology. DENT PUB HLTH

Dental Technics

185. Intro to Basic Dental Technics. (2) SS. Lab 18 hours for three weeks. Hoskins
Technical orientation to the basic technics taught in the first year of dentistry such as morphology, prosthodontics, biomaterials, operative dentistry. RESTOR DENT

Dermatology

First-Year Coordinated Instruction—

Medicine 131A-B-C. Lecture demonstrations and section work devoted to the supervised examination of patients.

Core Clerkship—Family and Community Medicine 110 includes lectures and case demonstrations on the examination and diagnosis of dermatological diseases. This includes instruction in history-taking, physical diagnosis, and diagnostic and therapeutic procedures.

140.01. Advanced Dermatology Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. Cram
Activities of students are determined after an initial interview with the instructor. Emphasis is placed on routine outpatient and inpatient care and research methods, according to individual interest. DERMATOL

140.02. Off-Campus Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. W. L. Epstein
Clinical clerkship in approved hospitals by special arrangement and approval of the dean and chairperson of the department. DERMATOL
140.03. Advanced Dermatology Clerkship—Fresno. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and consent of instructor. 

Hamlin

Activities of students are determined after an initial interview with the instructor. Emphasis is placed on routine outpatient and inpatient care and research methods, according to individual interest. DERMATOL.

150.01. Dermatology Research. (½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. 

W. L. Epstein

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

160.01. Clinical & Research Clerkship. (1-5) Su, F, W, Sp. Prerequisite: Consent of instructor. 

W. L. Epstein

Activities of students are determined after an initial interview with the instructor. Emphasis is placed on routine outpatient and inpatient care and research methods, according to individual interest. DERMATOL.

199. Laboratory Project. (1-5) F, W, Sp. Prerequisite: Consent of instructor. 

W. L. Epstein

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. DERMATOL.

400. Staff Conference. (2) F, W, Sp.

W. L. Epstein and Staff

Residents prepare and present case histories of patients at conferences, making reference to appropriate literature, special studies and laboratory work. Conferences include discussions of new developments and research investigation by staff members and faculty from other UC departments and other universities. DERMATOL.


Lectures and demonstrations of the histopathology of skin diseases with special emphasis on correlation with clinical findings. Activities include the study of microscopic sections and discussions of material presented. DERMATOL.


Seminar covers recent literature in dermatology. Included is assigned reading with required reports which are evaluated by members of the faculty. DERMATOL.

403. Specialty Seminar. (2) F, W, Sp. Seminar 2 hours. W. L. Epstein and Staff

Seminar includes discussions, required reading, and reports on dermatology and related basic sciences such as embryology, cytology, histopathology, and parasitology in relation to dermatologic conditions; and oncology as it relates to the skin. DERMATOL.


Seminar involves the evaluation of recent clinical cases of special interest. Cases are presented by the faculty and resident staff. DERMATOL.


Fukuyama

Instruct in the conduct of research projects dealing with electron microscopy, biology, biochemistry, and immunology of the skin under normal and pathologic conditions. DERMATOL.


In depth discussion of the sciences basic to an understanding of the function and dysfunction of skin, including anatomy, physiology, microbiology, pharmacology, biochemistry, genetics, and pathology. Over a three-year period, course covers all aspects of basic sciences relevant to dermatology. DERMATOL.


Aly

Course is designed to familiarize dermatology residents with the techniques of isolation and identification of dermatophytes, skin bacteria, and viruses. Occasional lectures on specialized topics are given. DERMATOL.


McGinley, PHS, Faisal, Hoke, UC Conant, SFGH Gellin, VA Tuffanelli

Residents, under supervision, are responsible for patient care in the wards and outpatient clinic. Duties include history-taking, physical examinations, and consultations. In addition, the senior resident has certain administrative, teaching, and clinical responsibilities. DERMATOL.


J. H. Epstein

Residents, under supervision, are responsible for patient care in the wards and outpatient clinic. Duties include history-taking, physical examinations, and consultation. In addition, the senior resident has certain administrative, teaching, and clinical responsibilities. DERMATOL.

452. Off-Campus Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. 

W. L. Epstein

Assistant residents work at off-campus hospitals, in the United States and other countries, approved by the dean and the chairperson of the department. Course includes training in clinical and investigative dermatology. DERMATOL.

Economics

180A-B. Economic Management in Dentistry. (1-1) F, W Lecture 1 hour. 

Winters

Lectures and group discussions related to dental practice. Subject areas covered include
Endocrinology

150.01. Research. (1-1/2 per week) F, W, Sp. Prerequisite: Consent of instructor.

R. Weiner

Individual research in endocrinology supervised by members of the faculty in the Interdisciplinary Group in Endocrinology.

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

Ganong and Staff

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

199. Laboratory Project. (1-5) § Su, F, W, Sp. Prerequisite: Consent of instructor.

Ganong

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department.

401. Hormone Structure & Function. (3) § Sp. Prerequisite: Basic course in biochemistry recommended. Consent of instructor. Lecture 4 hours. Papkoff, Ramachandran, Bewley

Examination of the chemical nature of the hormones; the methods employed for purification, characterization, structural determination and synthesis. The relationship of molecular structure to biological activity will be studied, as well as comparative and evolutionary aspects.

202. Mechanisms of Hormone Action. (3) § F. Prerequisite: Physiology 101 and/or Human Biology 200A and 200B, or Biochemistry 100A-B, or consent of instructor. Lecture 2 hours plus independent study.

R. H. Roth, Nissenson

Reading and discussion of classical and current literature concerning known and speculative mechanisms of hormone action. Major hormones covered are insulin, glucagon, thyroid, and steroid.

209. Molecular Endocrinology. (4) § W. Prerequisite: Knowledge of biochemistry. Will not be given for less than 5 students. Offered in alternate years. Not offered 1984-85. Lecture 4 hours.

Eberhardt, W. Miller

Application of recombinant DNA to study endocrine systems. Topics include basic molecular biology, cloning methods, RNA and DNA analysis, gene structure, and experimental design. Objective is to provide a working knowledge of molecular approaches to endocrine problems.


Objective of the course is to enhance students' abilities to effectively present results of their research findings. Students will have the opportunity to strengthen their written and oral communication skills by presenting abstracts as well as formal seminars.

224. Neuroendocrinology. (4) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Conference 1 hour. Course will not be offered for fewer than four students.

R. Weiner, P. Goldsmith, Dallman

Mechanisms for regulation of endocrine function by the central nervous system and the influence of hormones on the nervous system are considered in view of anatomical, biochemical, physiological, and behavioral data.


Endocrinology


Diagnosis, case selection, and management of pain and infection in endodontically involved teeth; advanced techniques for treating difficult root canal systems; anatomic considerations in root canal systems.

182. Literature Review. (1) F, W. Lecture 1 hour. Vip

A wide spectrum of selected topics related to endodontics will be reviewed. Research findings leading to modern concepts in endodontic treatment will be emphasized. Students are encouraged to participate in research projects and in table clinics at dental meetings.

189.02. Advanced Clinical Practice. (0-4) Sp. Clinic variable. Saponie

Advanced instruction in the field of clinical endodontics.

189.03. Expanded Clinical Practice. (0-9) F, W. Sp. Prerequisite: Completion of endodontics graduation requirements and satisfactory progress toward graduation in all other divisions. Consent of instructor and

approval variable.

Epidermis

189.04. 16½, F, standing. An examination of the structure and function of the epidermis.

101. Fu

Sp. Lect.

Basic method.
approval of Clinic Review Committee. Clinic variable. Enrollment limited. **N. Nguyen** and **Staff**

Objectives of the course are to offer more extensive endodontic service, rather than extraction, to clinic patients; and to expand clinical experience in diagnosis and treatment for students showing interest in endodontics. **RESTOR DENT**

**150.04. Undergrad Clinical Clerkship.** (0-16½) F, W, Sp. Prerequisite: Fourth-year standing and completion of majority of graduation requirements. Lecture 3½ hours for five weeks. Clinic. **N. Nguyen, Saponi and Staff**

An endodontic clerkship offering advanced senior students the opportunity to gain in-depth experience in diagnosis, emergency care, and all facets of non-surgical and surgical endodontics, as well as the related endodontic-pedodontic-periodontic problems. **RESTOR DENT**

**Epidemiology and International Health**

**100. Medical Parasitology.** (2) Sp. Prerequisite: Microbiology 100 (without parasitology) or equivalent, or concurrent enrollment. Lecture 2 hours. **Heyneman**

An introduction to protozoa and helminths and human diseases they produce. Parasite epidemiology and life cycles, diagnosis, clinical aspects, treatment, and control are considered in lectures, films, and Kodachrome slides. Laboratory demonstrations keyed to lectures are displayed throughout the week. **EPID INTL HLTH**

**101. Fundamentals of Epidemiology.** (3) Sp. Lecture 2 hours. Seminar 1 hour. **Ernst, Sacks, Petrakis**

Basic epidemiological principles and methods for investigating the distribution and determinants of disease in the population. Emphasis is on research design, evaluation of medical literature and diagnostic tests, and assessment of patient risk factors for use in diagnosis and treatment. **EPID INTL HLTH**

**140.02A. Clinical Clerkship Abroad.** (1½ per week) Su, F, W, Sp. Prerequisite: Nine months of clinical work and Epidemiology and International Health 150.01.

**R. Goldsmith, Halde**

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 to participate in a public health or research program abroad. **EPID INTL HLTH**

**140.02B. Off-Campus Clerkship.** (1½ per week) Su, F, W, Sp. Prerequisite: Consent of chairperson of department. **Petrakis and Staff**

Clerkships in clinical epidemiology in off-campus settings. **EPID INTL HLTH**

**140.03. Leptospirosis.** (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. **Gelber**

An introductory course in the diagnosis and care of leptospirosis patients. Selected readings will be discussed on the clinical presentation, therapy, and immunology of leptospirosis. Additional time on the service, with increasing clinical responsibility, may be arranged. **EPID INTL HLTH**

**140.04. Refugee Screening Clinic—SFCH.** (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. **De Lay**

Diagnosis and treatment of refugees from culturally diverse populations. Clinical experience with variety of tropical diseases and medical problems in family practice associated with these cultures. Attendance at Tropical Medicine-Infectious Disease Clinics at UCSF and participation in discussion of guided readings. **EPID INTL HLTH**

**150.01. Medicine in Developing Countries.** (1½ per week) F. Prerequisite: Epidemiology and International Health 150 or consent of instructor. Not offered 1983-84. **R. Goldsmith**

Two-week block elective on the recognition and treatment of diseases of tropical and developing countries. The course is designed to prepare students for clerkships abroad. Presentation format includes lectures, seminars, films, laboratory sessions, and supervised independent study. **EPID INTL HLTH**

**150.02. Field & Laboratory Research.** (1½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. **Staff**

Research under faculty supervision in the United States or abroad. Research may be in public health, clinical or preventive medicine, or basic medical sciences. **EPID INTL HLTH**

**160.01. Cancer Epidemiology.** (1-2) W. Prerequisite: Epidemiology and International Health 101 or consent of instructor. Lecture 1 hour. **Petrakis and Staff**

Survey and discussion of milestone papers in the knowledge of the epidemiology of the major sites of cancer. Emphasis is on etiological and methodological aspects and applications to prevention. **EPID INTL HLTH**

**170.04. Host-Parasite Interactions.** (1) W. Prerequisite: Epidemiology and International Health 100 or equivalent. Lecture and discussion 1 hour. **Heyneman**

Lectures and discussions to review the patterns of host-parasite interactions involving protozoan and helminthic infective agents of man. Topics selected will explore current views of immune and other types of response and their disorders that may result in human disease. **EPID INTL HLTH**

**170.05. Intro to International Health.** (2) W. Lecture 2 hours. **F. Dunn and Staff**
Lectures and discussion to survey the history, organizational structure, major activities and topics that comprise the field of international health. EPID INTL HLTH

170.06. Human Health Geography. (3-5) F Prerequisite: Consent of instructor. Course is offered and meets jointly with Geography 188 given at UC Berkeley. Lecture 3 hours. Optional term paper for 5 units.

F. Dunn and Staff

Course covers principles of medical geography and landscape epidemiology, including changing patterns of human health and disease in the context of physical, biotic, and sociocultural environments, and in relation to human settlements. Analysis of selected specific diseases of global importance. EPID INTL HLTH


A laboratory research problem of leprosy under the guidance of a member of the staff of the Leprosy Research Unit at Saxon Medical Center. The Unit's major research areas are the pharmacology, immunology, and chemotherapy of leprosy in animals and man. EPID INTL HLTH

170.08. International Health Policy. (2) Sp. Lecture 2 hours. M. F. Mitchell, P. Lee, F. Dunn

Lectures and discussions to examine topics and issues in international health at the level of policy. EPID INTL HLTH

180.01. Tropical Medicine Clinics. (1-2) § Su, F, W. Prerequisite: Epidemiology and International Health 100 and six months of clinical experience. Clinic 4-8 hours.

R. Goldsmith, Frierson and Staff

Examination and treatment of patients in the Tropical Medicine Clinics under staff supervision. The clinics operate in conjunction with the Infectious Diseases Service; patients seen have both parasitic and other infectious diseases. EPID INTL HLTH

180.04. Research Design. (2-3) § E Prerequisite: Consent of instructor. Seminar 2 hours. Optional term paper for 3 units.

Hulley

Primary readings on diverse clinical topics from the recent literature will be discussed. The objective is to enhance skills in interpreting and designing clinical research. Major themes are the difficulty of demonstrating cause and effect, and the challenges of guiding health policy. EPID INTL HLTH

180.05. Maternal & Child Health-Devel Ctr. (1-2) § Sp. Lecture and discussion 1 hour. Optional term paper for 2 units. Arnhold

Lectures and discussion to review major factors affecting maternal and child health in developing countries, including the impact of poverty, nutrition, infectious diseases, immunization, organization of ambulatory care, setting of priorities, and utilization of local people as health auxiliaries. EPID INTL HLTH

180.07. Environmentally Induced Disease. (1) W. Lecture 1 hour. Tarcher

A lecture series on the cause, diagnosis, treatment and prevention of environmentally induced disease. Topics include pesticides, hazardous wastes, indoor and outdoor air pollution, water pollution, susceptible populations, and the relationship of nutrition to environmentally induced disease. EPID INTL HLTH

180.08. Epidemiology. (2) § Sp. Seminar 2 hours, plus student presentation.

A. R. Moss

Topics in epidemiology and epidemiological methods from the public policy point of view, including risk associated with low level radiation, and environmental and occupational carcinogenesis. Other topics may include the decline of heart disease and the politics of environmental epidemiology. EPID INTL HLTH

186. Tropical Medicine Lectures. (1) § Sp. Lecture 1 hour. R. Goldsmith

Lectures, case histories, and films emphasizing diagnosis and treatment of tropical diseases including malaria, amebiasis, cholera, typhoid, schistosomiasis, leprosy and arbovirus infections, plus a review of opportunities for clinical clerkships abroad in developing countries. EPID INTL HLTH

190. Introduction to Epidemiology. (3) § W Lecture 3 hours. L. Levin

Introduction to the principles and methods used in epidemiology. Elements of research study design, critical analysis of journal articles, and application of epidemiological methods to common health risks in populations will be included. EPID INTL HLTH

198. Supervised Study. (1-5) § F, W, Sp. Prerequisite: Consent of instructor. Staff

Library research and directed reading under supervision of a member of the faculty. EPID INTL HLTH

199. Laboratory Project. (1-5) § F, W, Sp. Prerequisite: Consent of instructor. Staff

A laboratory research project under direction of a member of the faculty. EPID INTL HLTH

Exfoliative Cytology

401A-B-C-D. Clinical Diagnostic Cytology. (14-14-14-14) F, W, Sp, Su. E. King

Lectures in cytology include normal and malignant and normal and malignant cells. Instruction covers method of specimen collection; preparation, staining, and microscopic examination of specimens; development of speed and accuracy in microscopic examination; and correlation of cellular and tissue pathology. PATHOLOGY
Family and Community Medicine

110. FCM Core Clerkship. (1/2 per week) Su, F, W, Sp. Prerequisite: Completion of 20 weeks of clinical clerkship including Medicine 110. Werdegar, Rodnick, D. Mitchell

Students function as family/primary physicians in ambulatory settings at affiliated residency programs. Family Practice at SFGH, CHS in Santa Rosa, NAT in Salinas, VMC in Fresno, and SHH at Fort Ord. Primary Care Internal Medicine at UC, SFGH, and AZ. FAM CM MED

140.01A-B-C-D. Advanced Family Practice. (1/6 per week) A, B, C, and D are offered in all of the following quarters: Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Werdegar, Connelly, W. Shore, Slater

A = VMC in Fresno; B = SFGH; C = CHS in Santa Rosa; D = other sites. Comprehensive inpatient and outpatient experience in family practice. Students assume sub-intern responsibility for patient care. Community assignments may be individually arranged. FAM CM MED

140.02. Community Health Programs. (1/6 per week) Su, F, W, Sp. Prerequisite: Determined by student’s clinical experience. Consent of instructor. Barbacca and Staff

Elective clinical experience for four or more weeks in various community health projects in California and out of state as well. Programs include Indian Health Service, Diabetic Summer Camp, Asian Health Service, and varied neighborhood clinics. FAM CM MED

140.04. Family Practice Preceptorship. (1/6 per week) Su, F, W, Sp. Prerequisite: Consent of instructor. Segal

Students work with a family physician, alternatively general internist or general pediatrician, in the office, observing the practice and performing duties as training permits. Experience will teach common health problems and primary care in a community. Rural preceptorships are encouraged. FAM CM MED

140.05A-B-C-D. Social Medicine. (1/6 per week) F, W, Sp, Su. Prerequisite: Consent of instructor. Course may be taken three consecutive quarters in fulfillment of pathway requirements or one quarter on a selective basis. Barbacca

Field work experience or research germane to social medicine individually arranged with consideration to student’s major area of interest. FAM CM MED

140.06A-B-C. Rehabilitation Medicine. (1/6 per week) A, B, and C are offered in all of the following quarters: Su, F, W, Sp. Prerequisite: Consent of instructor. L. Crain

A = San Francisco Bay Area; B = Fresno; C = other sites. Students are assigned to rehabilitation facilities 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 CM MED

140.07. Adv Family Prac Preceptorship. (1/6 per week) Su, F, W, Sp. Prerequisite: Advanced medical school standing and consent of instructor. Segal

Students may select from several sites such as urban practice in San Francisco and Berkeley, or rural practice in Healdsburg, Hoopa and Hughson. Students participate in the care of patients and their families at the physician’s practice, local hospital and emergency room. FAM CM MED

140.30A-B-C. Family Practice Clerkship. (1/6 per week) A, B, and C are offered in all of the following quarters: Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Patinkin

A = NAT in Salinas; B = SHH at Fort Ord; C = other sites. Course strengthens students’ clinical skills and exposes them to hospitals with family practice residency programs. Provides opportunity to participate in health care in rural and/or underserved areas. FAM CM MED

140.40. Adv Inpatient Fam Med Clerkship. (1/6 per week) Su, F, W, Sp. Prerequisite: Senior medicine clerkship. R. Goldschmidt, M. Johnson

The Family Practice Inpatient Service at SFGH employs the family practice approach to hospitalized adult patients with diverse medical problems. Students function as members of the multidisciplinary inpatient team at a junior intern level. Attending rounds are held daily. FAM CM MED

140.50A-B-C-D. Com Clerkship-San Joaquin Valley. (1/6 per week) A, B, C, and D are offered in all of the following quarters: Su, F, W, Sp. Prerequisite: Consent of instructor. Corbus

A = St. Agnes’ Hospital; B = Visalia Hospital; C = Fresno Community Hospital; D = other sites. Family practice clerkships in community practices in Valley communities. Students are introduced to the varied medical and surgical problems commonly found. Provides opportunity to assess health resources in a semi-rural area of California. FAM CM MED


Students receive practical training in emergency medicine in emergency prehospital care, and also in the care of the critically ill and injured patient in the emergency room. Daily emergency medicine case conferences and weekly conferences augment clinical experience. FAM CM MED

140.60A-B-C-D. Clinical Geriatrics. (1/6 per week) F, W, Sp. Prerequisite: Medicine 110 and Neurology 110 and consent of instructor. Barbacca, Werdegar and Staff
A = San Francisco; B = Fresno; C = St. Mary's; D = Other. Students supervised by attending staff are assigned patients in clinical settings; outpatient departments, adult day centers, nursing homes, acute hospital; also home care. Students will attend multidisciplinary case conferences, didactic sessions, geriatrics consultation rounds. FAM CM MED

150.01. Research. (1½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. Werdiger, Barbaccia and Staff Clinical epidemiology; health services, or behavioral science research approaches are applied in the study of selected areas in family medicine or community health. FAM CM MED

160.01. Community Medicine Field Work. (1½-3) Su, F, W, Sp. Prerequisite: Medical student standing. Consent of instructor. Field work 4-8 hours. Barbaccia Non-block assignments to community health agencies where students have patient contact. Students choose an aspect of the agency's program for analysis. FAM CM MED

160.02. Family Practice Continuity. (2) Su, F, W, Sp. Prerequisite: Consent of instructor. Course must be taken for one full academic year. R. Goldschmidt Course will provide students the opportunity to follow a small number of patients and families over the entire year during their non-scheduled time in coordination with the instructor. Continuing the experience for four years is encouraged. FAM CM MED

160.03. Family Practice Preceptorship. (1-3) Su, F, W, Sp. Prerequisite: Medical student standing. Consent of instructor. Field work 4-12 hours. Segal Non-block assignment with a family physician in a private office or community clinic for a minimum of four hours a week. Preclinical students observe their preceptors in order to gain an introduction to family care. FAM CM MED

160.04. Sports Med for Non-Orthopedists. (2-3) F. Prerequisite: Consent of instructor. Lecture 2 hours. Clinic optional 4 hours. Renner Athletic medicine ranging from youth athletics to senior participation. Emphasis on evaluation and prevention of injury, conditioning and rehabilitation, directed at the community. Course consists of lectures and optional field work. FAM CM MED

160.05. Mission Community Hlh Elec. (1-3) Su, F, W, Sp. Prerequisite: Consent of instructor. Lab 2-6 hours. Field work 2-8 hours. D. Sanchez, D. Fink Explores health care attitudes, health problems and health care resources in the multi-ethnic Mission Area of San Francisco. Students receive clinical assignments in one or more community health and social service agencies. Field experience is analyzed in seminars and tutorials. FAM CM MED

160.07A-B. The Family: Health & Care. (2-2) F, W. Seminar 2 hours. Field work 4 hours. Ransom, R. Goldschmidt, Flinders, Liddle Introductory principles of family medicine are discussed in class and discussion groups led by family physicians and family psychologists. Preceptorships with family physicians in private offices and community clinics. Each student will interview a family and present a case report. FAM CM MED

170.01A-B-C. Special Issues in Health Care. (0-3) A, B, and C are offered in all of the following quarters: Su, F, W, Sp. Prerequisite: Consent of instructor. Lecture and reading 1-3 hours. Werdiger and Staff Explores in systematic (lecture/readings/discussion) format new issues in health care or special content related to family and community health. Topics are developed and prepared according to faculty student interests. FAM CM MED

170.02. Elderly Community Programs. (2) W. Lecture 1 hour. Conference 2 hours. Enrollment limited. Barbaccia, Robinson, Weiss This course offers the student a survey of the aged in San Francisco. Lectures cover the socio-demographic, cultural, and health status factors of the city's aged. On-site conferences are held at representative programs and facilities serving the aged. FAM CM MED

170.03. Developmental Disabilities. (2-5) Su, F, W, Sp. Prerequisite: Consent of instructor. Field work 4-8 hours. L. Crain Resource overview with reading assignments correlated with field observations of the spectrum of community and institutional services, including comprehensive diagnostic, therapeutic, and counseling services for children and adults with developmental disabilities. FAM CM MED

170.05. Rehabilitation Medicine. (1-5) F, W, Sp. Prerequisite: Consent of instructor. Field work 4-8 hours. L. Crain Through individualized arrangements, course provides an introduction to the broad spectrum of rehabilitation services for children and/or adults with chronic or disabling diseases. FAM CM MED

171. Compr Applications in Hlh Care. (3) F Lecture 3 hours. M. Tuttle The nature of information processing; concepts of problem solving with the digital computer; representation of information within a computer system; introduction to programming and systematic programming methodology; examples of present and potential applications of computer systems to the medical environment. FAM CM MED

172. Legal Medicine—Basic Concepts. (2) F Lecture 2 hours. Tennenhouse Fundamental legal principles and procedures affecting medical practice, with emphasis on medical negligence; the physician's role in medical malpractice. FAM CM MED

173. Fam Seminar 11Hours Explores care as a family development process. FAM CM MED

174. Fam Seminar An exploration of the student's experience with family medicine in the practice setting. FAM CM MED

175.01. (1-3) F, 1 hour Explores Western medical and philosophical trends in patient care. FAM CM MED

175.02. (1-3) F, 1 hour Explores Western medical and philosophical trends in patient care. FAM CM MED
role in the litigation process; the areas of medical practice which most frequently involve litigation; and practical measures to minimize the risk of lawsuit. FAM CM MED

172B. Legal Medicine—Practical Aspects. (2) W. Lecture 2 hours. Tennenhous

Fundamental legal principles and procedures affecting medical practice, with emphasis on medical negligence; the physician's role in the litigation process; the areas of medical practice which most frequently involve litigation; and practical measures to minimize the risk of lawsuit. FAM CM MED

173. Family Practice Seminar. (1) W. Seminar 1 hour. J. Cook

Exploration of various aspects of primary care as related to family medicine. A practicing family physician leads discussion of topics developed by the students. Introduction to the practical aspects as well as the issues and demands of family practice. FAM CM MED


An exploration of the comprehensive role of the family physician in providing longitudinal health care. Students will learn to recognize priorities in patient care, with an emphasis on the patient as a whole person. FAM CM MED

175.01. Meaning of Being a Physician. (1-5) F, W, Sp. Prerequisite: Consent of instructor. Seminar 1-3 hours. Guttenbag

Exploration of the theoretical premises of Western physicianship; relationship to other disciplines, such as theology and man's spiritual dimension, and other cultural attitudes; trendiness of the holistic approach; dynamics of patient-physician relationship; operational concepts such as the clinical entity. FAM CM MED

175.02. Theoretical Problems of Medicine. (1-5) F, W, Sp. Prerequisite: Consent of instructor. Seminar 1-3 hours. Guttenbag

Seminar on selected writings and of topics discussed in Family and Community Medicine 175.01. FAM CM MED

180. Intro to Social & Preventive Med. (1-2) F Lecture and seminar 1-2 hours. Barbaccia

Lectures and seminars introduce entering students to social, political, economic, and environmental factors influencing health of the community and provision of care. Topics include preventive health care, health behavior and formulation of policy. FAM CM MED

181. Clinical Preventive Medicine. (2) W. Prerequisite: Second-year standing in School of Medicine. Lecture hour. Seminar 1 hour. Petitti

Lecture-seminar on the basic concepts of preventive medicine, the integration of preventive medicine into clinical practice, the evaluation of preventive strategies in medical care, and the role of the practicing physician in influencing policies on prevention. FAM CM MED

182. Preventive Medicine Fieldwork. (1 1/2 per week) F, W, Sp. Petitti

The student will be assigned to participate four days a week in patient care with a physician who emphasizes the integration of preventive medicine into clinical practice. One day of directed reading supervised by a member of the faculty. FAM CM MED


Lecture-seminar format is used to cover most aspects of the organization and functions of the health care system and its subsystems, including manpower, hospitals, ambulatory care, planning regulation and control, economics, government programs and health services research. FAM CM MED

198. Supervised Study. (1-5) Su, F, W, Sp. Prerequisite: Consent of instructor. Wedergar and Staff

Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. FAM CM MED

475.01. Western Medical Attitude. (1) F, W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Guttenbag

An exploration of the theoretical premises on which Western medicine rests: its relationship to other disciplines, the structure of patient-physician relationships, its operational concepts, such as optimal versus inadequate or superficial examination, the concept of the clinical entity. FAM CM MED


Seminar on selected writings and of topics discussed in Family and Community Medicine 475.01. FAM CM MED

Fixed Prosthodontics

180. Oral Rehabilitation. (1) W. Seminar 1 hour. Lorenczi

The field of fixed prosthodontics and its relationship to other dental disciplines will be explored by means of case presentations to provide students with a broad base of experience in oral rehabilitation techniques. RESTOR DENT

180.01. Selected Topics. (1) Sp. Seminar 1 hour. Lum

Individual staff members will offer seminar type instruction on selected topics related to fixed prosthodontics. RESTOR DENT

180.02. Senior Restorative Elective. (1) F. Lecture 1 hour. Meli

Advanced clinical restorative elective. Lectures describe the restorative general practice. Topics include those such as office layout, laboratory relations, treatment limitations,
scheduling, financial arrangements, and treatment failures. RESTOR DENT
199. Laboratory Project. (1-5) F, W, Sp. Prerequisite: Consent of instructor. Staff
A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. RESTOR DENT

Forensic Pathology and Medicine

170.01. Basic Legal Principles. (1) Sp. Seminar 1 hour. Smuckler
Course covers basic legal principles: torts and contracts; medical records and documents; medical licensure and certification; forensic pathology; the expert witness; malpractice and professional liability. PATHOLOGY

General Dentistry

109.01. Community Dentistry Rotation. (0-9) F, W, Sp. Prerequisite: Certification of competency by the various departments in the school. Seminar 3 hours. Clinic 24 hours. Wycoff, Sinclair, M. Garcia
Multi-component rotation including seminars, patient group presentations, specialty grand rounds and comprehensive patient care. Supervised clinic and seminar experience in community setting. Students develop and explore their roles as members of the health care team and learn to meet community needs. DENT PUB HLTH

111. Problems in Dental Practice. (1) F Lecture 1 hour. Wycoff
Survey course designed to introduce the student to current social and professional problems in dentistry. Topics include identifying patient, community, national, and professional needs, and how they are met. DENT PUB HLTH

Genetics\textsuperscript{6}

200A. Principles of Genetics. (3) § F Lecture 3 hours. Kornberg, Herskowitz
In-depth analysis of genetic mechanisms in selected procarctes, eucaryotes. Topics include genetic exchange (conjugation, generalized and specialized transduction, transformation), recombination (general, site-specific, "illegitimate"), mapping, mutagenesis (induction and consequences), mobile genetic elements, gene expression, meiotic and mitotic segregation, allelism, position effects. BIOCHEM

215. Laboratory Rotation. (3) § F, W, Sp. Lab 9 hours. Guthrie
A laboratory rotation course to familiarize first-year students with various approaches to research. Students are required to rotate through three different laboratories in at least two subject areas, and give an open seminar at the end of each quarter. BIOCHEM

220. Current Topics. (½) § F, W, Sp. Prerequisite: Consent of graduate adviser in genetics. Seminar. Herskowitz and Staff
Students will lead a discussion on a topic of special interest in genetics. A different faculty member will act as adviser each week. This is a required course each quarter for first- and second-year students in genetics. BIOCHEM

BIOCHEM

Health Sciences Education

200. Intro to Teaching Health Science. (2) § F Prerequisite: Consent of instructor. Lecture 2 hours. Lcm
Course focuses on instructional techniques and strategies useful for the beginning instructor. Emphasis is on the development of an effective personal teaching style. Open to advanced graduates, residents, teaching assistants, and new faculty. PHARMACY

220A-B. Selected Topics. (2-2) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 2 hours. Rosinski
Consideration of principles of learning, including individual student differences, techniques of instruction, and approaches to evaluation of student progress. Individual teaching plans are developed and critiqued. Emphasis is placed on the graduate and professional school student as a learner. MEDICINE

Graduate seminar integrating clinical experiences and academic course work of students enrolled in Kellogg Education Project. Relationships of course work experiences to future roles as allied health teachers are considered. Individual professional problems are analyzed. MEDICINE

310. Eval of Clinical Performance. (2) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 3 hours. Rosinski
A seminar to review and develop objective techniques in assessing the clinical performance and competence of students and practitioners. Techniques will be developed and validated for a number of clinical disciplines. MEDICINE

History

A lecture series on the evolution of dentistry from the dawn of civilization to modern times. Emphasis is placed on the changing concept
of mere pain relief to the current science involving total restoration of the mouth, control and prevention of oral diseases. Inventiveness of the dentist, his role in the discovery and application of anaesthesia, with constant involvement in community health problems of people over the ages, are stressed. DENT PUB HLTH

History of Health Sciences

150. History of Pharmacy. (3) F. Lecture 3 hours. Sadee
Emphasis is on the historical development of pharmacy, its relationship to other health professions, and the personalities who significantly contributed to the advancement of health care. HIST HL SC

170.02. Medical History & Bibliography. (1-5) § F, W or Sp. Lecture 1 hour. J. Saunders
Lectures and informal seminars on aspects of medical history. HIST HL SC

170.03. Evolution of American Medicine. (1-5) § F or W or Sp. Brieger
Lectures and informal seminars on the growth of American medicine from Colonial times to the present, with an examination of the sociopolitical and socioeconomic factors influencing that growth. HIST HL SC

170.06. Intro to History of Medicine. (1-5) § F, W or Sp. Lecture 1 hour. Independent study variable. Todes
An introductory course intended for all students in the health professions and graduate students interested in the broad conceptual developments influencing the growth of medical sciences and the health professions from the classical to the modern period. HIST HL SC

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

180.01. History of Soviet Medicine. (2-4) § Sp. Seminar 2-4 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, the professional medical community and medical science. HIST HL SC

188.06. Health & Human Rights. (2) Sp. Seminar 2 hours. Brieger, Todes, Jansen, Jameton
A study of how fundamental social theories give shape to health care practice. HIST HL SC

195A. Doctors in Fiction. (2) § W. Seminar 2 hours. Todes, F. Schiller
Seminar examines the changing image of the physician and the social, professional, 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 HL SC

195B. Doctors in Fiction. (2) § W. Seminar 2 hours. Todes, F. Schiller
Continuation of History of Health Sciences 195A. Seminar examines the changing image of the physician and the social, professional, philosophical and personal issues involved in medical practice, as reflected in popular literature. HIST HL SC

198. Supervised Study. (1-5) § F, W, Sp. Prerequisite: Consent of Instructor. Brieger and Staff
Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. HIST HL SC

203. Brain/Mind in Medical History. (1-2) § F, W or Sp. Lecture 1-2 hours. F. Schiller
Introduction to the history of neurological concepts. HIST HL SC

204. Non-Western Medical Systems. (1-2) § W. Prerequisite: History of Health Sciences 170.06. Lecture 1 hour. Veith
Seminars and directed readings on the philosophy of Asian, Indian, and other non-Western systems. HIST HL SC

205.01. Western Medical Attitudes. (1-3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1-3 hours. Guttenag
Exploration of the theoretical premises of Western physicianship; relationship to other disciplines, such as theology and man’s spiritual dimension, and other cultural attitudes, trendsiness of the holistic approach; dynamics of patient-physician relationship; operational concepts, such as the clinical entity. HIST HL SC

205.02. Western Medical Attitudes. (1-3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1-3 hours. Guttenag
Extended reading and conferences of History of Health Sciences 205.01. HIST HL SC

206. Intro to History of Nursing. (2) § W. Lecture 2 hours. Blanc
For nursing instructors and graduate students. History of the health sciences upon which nursing practice is based. Methods and examples for teaching history in the clinical setting. HIST HL SC

207. Historical Bibliography. (4) § F. Zinn
Historical survey of health sciences literature, illustrated by works from the special collections in the library. Includes an introduction to historical and modern reference works and bibliographic methods useful in
research in the history of the health sciences.

HIST HL SC

209. Victorian Age Medicine. (2) § W. Prerequisite: Graduate standing. Lecture 2 hours.

Blanc

Investigation of medical facilities in London during 1830-1870 along with modes of practice, social setting, and levels of scientific knowledge in the mid-nineteenth century. HIST HL SC

210. History of Medical Education. (1-3) § W, Sp. Lecture 1-2 hours, plus paper or research for 3 units.

Brieger

Lectures, discussions, and readings on the development of medical theory and practice as taught from ancient times to the present. Emphasis will be on American medical education in the nineteenth and twentieth centuries. HIST HL SC

211. Theories of Human Nature. (3) § Sp. Prerequisite: Graduate standing. Lecture 3 hours.

Jonsen

Course examines how several classical and modern authors in the Western philosophical tradition define human nature. Various basic theories and their implications for contemporary science and medicine are developed. HIST HL SC


Brieger

This course is an historical methods and research seminar required for all students in History of Health Sciences and open to others interested in learning the methods of historical research. HIST HL SC


HIST HL SC

251. Ethical Clinical Research. (1) § W. Seminar 3 hours on four days. Jonsen

Analysis of protocols for clinical research in terms of criteria for scientific validity and legal suitability, description of current local and national review process for approval of funded research. HIST HL SC

252. Ethical Theory. (3) § F. Prerequisite: Graduate standing or consent of instructor. Jonsen

Seminar 3 hours.

Blanc, Jameton

Basic concepts and methods of philosophical ethics, with particular emphasis on respect for persons and justice, will be traced in classical and modern authors. Emphasis will be placed on critical analysis of ethical argument. HIST HL SC

297. Special Study. (1-3) § F, W, Sp. Staff

Reading and conferences for qualified students under the direction of a member of the staff. HIST HL SC

298. Thesis. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff

For graduate students engaged in writing the thesis for the master's degree. HIST HL SC

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

For graduate students engaged in writing the dissertation for the Ph.D. degree. HIST HL SC

Human Development and Aging

201. Fundamental Theories & Methods. (1-4) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 4 hours. Pearl, Rosow, Kiefer

Psychological and sociological theories and methods in the study of the human life cycle. Topics include models of development, life course, adult socialization, age stratification, intergenerational issues, cognition, historical and demographic perspectives, personality, stress, transitions, age comparative coping, and psychopathology. PSYCHIATRY


A three-quarter course covering major methods and techniques of life course and life span research including surveys, field observations, analysis of quantitative and qualitative data, and longitudinal research. PSYCHIATRY

Rosow

Students work on their own research interests in terms of problem formulation, research design, and/or operationalization. Emphasis dependent upon individual student needs. PSYCHIATRY

204. Personal Development. (2) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. 

Kiefer

Representative works from behavioral science literature and world poetry and prose are brought together in the study of personality development in adult life. Comparisons in the two fields on how the developing person copes with social, historical, and psychological challenges. PSYCHIATRY

205. Data Analysis. (3) § F, W. Sp. Prerequisite: Consent of instructor. Lecture 3 hours. 

Rosow

Students either provide their own or use accessible data from ongoing research projects. Emphasis is on training in data organization, analysis, and research report writing. PSYCHIATRY

206A-B. Advanced Seminar on Stress. (2-2-2) § F, W. Sp. Prerequisite: Consent of instructor. Lecture 2 hours. 

Pearlin, M. A. Lieberman, Chiriboga

This pro-research seminar, for advanced students with a strong background in the stress research literature, is devoted to elaboration of stress theory and concepts, and refinement of methodologies addressed to specific research projects. PSYCHIATRY

207. Methods of Survey Research. (3) § F, W. Prerequisite: Consent of instructor. Lecture 3 hours, plus field work. 

Pearlin

Course covers the major tasks of survey research. Topics such as conceptual specification, the development of indicators and measures, the construction of questionnaires, sampling, field testing, interviewing, and analysis are covered. PSYCHIATRY

208. Psychosocial Change in Adulthood. (3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours. 

Fiske, Rosow

An advanced course for students familiar with social sciences and clinical studies of adult change. Emphasis will be on in-depth critiques of stage, process, stress, adaptation, and other conceptual models. PSYCHIATRY

210. Socialization to Old Age. (3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours. 

Rosow

A seminar on adult socialization theory, with prospective socialization to an aged role as a special concern. Major issues involve norms for older people, the structure of socialization situations, and the pressure of variables normally affecting socialization in earlier status transitions. PSYCHIATRY

214. Social Science Philosophy. (2) § Sp. Prerequisite: Consent of instructor. Seminar 2 hours. 

Kiefer

Exploration of the philosophies of knowledge which underlie medicine, natural science and social science. Course offers an approach to behavioral problems in health care which reconciles medical and social science epistemologies. For both health professional and social science students. PSYCHIATRY

220. Pro-Seminar. (1) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours, given in alternate weeks. 

Staff

Students, staff, or guest lecturers present selected topics, based on their current research. PSYCHIATRY

221. Life Stress & Adaptation. (3) § F, Pre-requisite: Consent of instructor. Lecture 3 hours. 

Chiriboga

Qualitative and quantitative analyses of life history protocols focusing on stress and perceptions of stress in relation to a variety of indicators of adaptation such as physiological, physical, social at various life stages from adolescence to old age. PSYCHIATRY

222. Sources & Mediators of Stress. (2) § W. Prerequisite: Consent of instructor. Non-3 hour. Enrollment limited. Pearl, Lieberman, Chiriboga, Cohen, Horowitz, Lazarus

Course presents current theories and research concerned with sources of stress and its mediation by coping and social supports. Instructors draw on their own work for lectures. The faculty seminar meets alternate weeks; students meet with Professor Pearl in intervening weeks. PSYCHIATRY

227. Biological Aspects of Aging. (2-3) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Independent study 3-4 hours. 

Ellman

Physiological, biochemical, neurological, and anatonical changes occurring with aging are discussed. Important questions include the possible relationships to functional behavior of these changes in humans and the relevance of internal changes to psychological states. PSYCHIATRY

232. Kinship Structure. (3) § Sp. Prerequisite: Consent of instructor. Lecture 3 hours. 

Thurnher

Kinship structure in Western and non-Western societies with emphasis on the life cycle perspective of family roles and relations. Consideration is given to relevant empirical studies and case material. PSYCHIATRY

249. Special Studies. (2-8) § F, W. Prerequisite: Consent of instructor. Staff

Students select special problems to investigate on an individual or collaborative basis. These studies may be conducted through readings, the collection and analysis of empirical data, or the development of conceptual analyses or methodologies. PSYCHIATRY

250. Research. (1-8) § F, W. Sp. Staff

PSYCHIATRY
299. Dissertation. (0) § E, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff

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

Human Sexuality


Social, behavioral, and clinical aspects of human sexuality are covered in a series of lectures. Lectures will present didactic material. PHARMACY

Interdepartmental Studies

135. Reproduction Growth & Devel. (3) F. Lecture 3 hours. Charlton, Parcer

Course is designed to trace the biological mechanisms concerned with conception, development of the fertilized ovum through embryonic and fetal life, and postnatally to the mature individual. OBYN RS


Course will discuss economic forces, ethical and legal issues, social and cultural factors, and governmental policies affecting medical practice. It will define professional responsibilities in the context of these influences and the resulting forms and trends in medical practice. SURGERY

Laboratory Medicine

140.01. Clinical Pathology. (1½ per week) Su, F, W, Sp. Prerequisite: One year of medical school and consent of instructor. Gottfried

Laboratory sessions and seminars on aspects of clinical chemistry, hematology, microbiology, blood banking, and radioisotopes are held in the clinical laboratories at UC and SFGH. LAB MED

140.03. Hematology Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Second year of hematology or equivalent. Recommendation from one faculty member. Shohet and Staff

Clerkship primarily in the clinical evaluation of hematologic patients. As interesting clinical problems arise, time will be available for laboratory projects relevant to those problems. Students will act as primary consultants under close supervision of hematology residents and fellows. LAB MED

140.05. Clinical Pathology—VMC. (1½ per week) F, W, Sp. Prerequisite: Medicine 110 and consent of instructor. M. Fisher, Sobenes

Clerkship in laboratory medicine including indications for tests, problems of collection and performance, interpretation of data to assist clinicians in rendering diagnoses and following therapy. Topics include clinical chemistry, radioisotopic pathology, hematology, immunology and serology, blood banking, microbiology, mycology, parasitology. LAB MED

140.06. Laboratory Medicine in Fresno. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Beland, L. Mann

Utilization of different laboratory settings, organizations, and approaches by pathologists in hospitals throughout the Fresno community. Included is coverage of traditional areas of clinical pathology in addition to such specialized areas as cytochemistry and therapeutic drug monitoring. LAB MED

150.01. Laboratory Medicine—UC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Townsend

An intensive four-week seminar series, using patient data, designed to increase the student's ability to choose and interpret laboratory tests in a variety of clinical settings. The scope of tests discussed includes hematology, blood banking, clinical chemistry, and microbiology. LAB MED

160.01. Radionuclides. (2) Su, F, W, Sp. Prerequisite: One year of medical school. Lecture 1 hour, Clinic 4 hours. Pollycove

Basic laboratory course in nuclear medicine. Clinical participation in the diagnosis of patients receiving radionuclides in the outpatient clinics and in the wards. LAB MED

160.02. Sexually Transmitted Diseases. (2) W. Prerequisite: One year of medical school. Lecture 2 hours. G. Brooks

Course covers biological and clinical aspects of the syndromes and agents of sexually transmitted diseases, including herpes, chlamydia, gonorrhea, syphilis, salpingitis, vaginitis, and others. This is an elective course for second-year medical students. LAB MED

170.01. Clinical Pathology—SFCH. (2) Su, F, W, Sp. Gottfried

Laboratory sessions and seminars on aspects of clinical chemistry, hematology, microbiology, blood banking, and radioisotopes are held in the clinical laboratories at UC and SFCH. LAB MED


Residents prepare summaries of selected clinical cases which present problems in correlation of clinical and laboratory data. Residents and faculty discuss relevant literature with special reference to technical aspects of laboratory procedures and interpretation of results. LAB MED


Review of current laboratory procedures and problems in hematology, microbiology, immunology, and occasional other areas.
immunology, blood banking, chemistry, and application of isotopes. Library research and occasional formal reports are required. LAB MED

Marton, Gottfried, Nicoll

Research programs are arranged with appropriate faculty members on an individual basis. LAB MED

Brecher

Seminars in clinical pathology, including clinical chemistry, hematology, immunohematology, microbiology, parasitology, and serology, and are conducted by faculty whose major interests is that under direction. Residents do collateral reading for discussion of problems of interpretation, diagnosis, techniques, and research approaches. LAB MED

450. Clinical Pathology Principles. (10)
Marton, Gottfried, Nicoll

Principles of laboratory tests in hematology, chemistry, microbiology, and blood banking, as well as interpretation of results and correlation of clinical and laboratory data. Residents participate in performance of tests and certain administrative duties related to operation of clinical laboratories. LAB MED

Marton, Gottfried, Nicoll

Theory and methodology of clinical chemistry, serology, blood banking, hematology, microbiology, parasitology, and clinical microscopy. Emphasis is on interpretation and correlation of data and study of literature. LAB MED

452. Cytometry and Cell Analysis. (3) W.
Lecture 3 hours.
Mayall, Fulwyer

Course introduces the theory and techniques of image cytometry, flow cytometry, and flow sorting, and surveys the research and clinical applications of these powerful techniques for the analysis of individual cells. LAB MED

Medical and Biological Illustration

200A-B-C. Introduction to Graduate Study. (2-2-2) § F, W, Sp. Lecture 2 hours.
Three-quarter course. Wakerlin, Beindorf

Overview of theory in instructional development, review and development of writing, style and form for reports, essays and theses. Study of scriptwriting for media as a special form and style of literary expression and language usage. MED ILLUS

201A-B-C. Illustration Theory. (3-6, 3-6) § F, W, Sp. Lecture 2 hours. Lab 3 hours.
Wakerlin

Theoretical and practical considerations in illustration design for publication, slides and motion media; introduction to surgical illustration such as procedures, rules, observation; design technology and introduction to graphic arts and printing technologies; introduction to biological illustration; statistical graphics. MED ILLUS

204A-B-C. Advanced Illustration. (3-6, 3-6, 3-6) § F, W, Sp. Prerequisite: Medical and Biological Illustration 201A-B-C. Wakerlin, Dohrmann

Theory and practice in visual information design. Surgical illustration for publication and for projected media; publication design, layout, typography, paste-up and print technology. MED ILLUS

Wakerlin, Beindorf, B. Morris, Dohrmann

Review of anatomy and observation of the ear and eye through oto scope, ophthalmoscope and slit lamp. Ophthalmological illustration, endoscopic drawing, finished illustrations of a retinal field, slit lamp view and a microsurgical procedure. MED ILLUS

210. Teaching Styles & Strategies. (2) § F. Prerequisite: Consent of instructor. Lecture and lab 40 hours given as one week of workshops. Wakerlin, Beindorf

Introduction for prospective teaching assistants to instructional techniques and strategies, learning-teaching, organizing study plans, presentation of information, student-teacher interactions, evaluation of learning and teaching, theories of learning and communication, planning audiovisual support materials. MED ILLUS


Ongoing seminar periodically throughout the program. Analyses of productions in all media. Readings and discussion of instructional design, communication and learning theory, and methods of evaluation. Participation by guest lecturers. MED ILLUS

230A-B-C. Intro to Communication Media. (3-6, 3-6, 3-6) § F, W, Sp. Lecture 1 hour. Lab 6 hours. Beindorf

Survey of media production technology and formats. Still photography methods; black and white and color. Theory of media production in film, television and slide-tape augmented by consideration of techniques in storyboard, scriptwriting, sound and picture editing and animation. MED ILLUS

231. Advanced Media I. (3-6) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Lab 6 hours. Beindorf

Theory of motion media and practice in film and electronic camera techniques, editing, sound production and mixing, and project management. MED ILLUS

232. Advanced Media II. (3-6) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Lab 6 hours. Beindorf
Theory of production design. Roles of production personnel and task definition. Practice in preproduction plan of actual production to be selected for later production in slide-tape, film and television. Production subject to faculty approval and identification of funding. MED ILLUS

233A. Advanced Media III. (3-6) § F, W. Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 9 hours. Beindorf

Theory and techniques of motion picture animation. Design and production of short full animation sequence with sound. Longer animated segment may be designed for completion in Medical and Biological Illustration 233B with consent of instructor. MED ILLUS

233B. Advanced Film Animation. (3-6) § F, W, Sp. Prerequisite: Medical and Biological Illustration 233A and consent of instructor. Lecture 2 hours. Lab 9 hours. Beindorf

Elected continuation of Medical and Biological Illustration 233A, in motion picture film animation. MED ILLUS

298. Thesis. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff

For graduate students engaged in the thesis project for the master's degree. MED ILLUS

421. Motion Media. (4) § F Lecture 2 hours. Lab 6 hours. Beindorf, Banks

Film and television. Videotape production in a studio setting with insertion of student-produced motion pictures. Theories of motion dynamics of balance, subjective camera motion. Basic cinematography, TV technology, production economics. MED ILLUS

423. Graphics for Publication. (4) W, Sp. Prerequisite: Medical and Biological Illustration 201A-B-C and consent of instructor. Lecture 2 hours. Lab 6 hours. Wakerlin

Brochure design and production; photography in graphic design; layout; copy fitting; camera-ready mechanicals; typography; printing; photogravure; specifications for printing; paper stocks, inks, etc. MED ILLUS

431A. Project I. (5) F, W, Sp. Prerequisite: Medical and Biological Illustration 201A-B-C and 230A-B-C. Lecture 2 hours. Lab 9 hours. Staff

Students work on an actual instructional unit in medium of their choice determined by teaching needs, and developed through instructional design concepts, storyboard, script, production planning and budget. MED ILLUS

431B. Project II. (5) F, W, Sp. Prerequisite: Medical and Biological Illustration 431A and consent of instructor. Lecture 2 hours. Lab 9 hours. Staff

Continuation of project production begun in Medical and Biological Illustration 431A. MED ILLUS

431C. Project III. (5) F, W, Sp. Prerequisite: Medical and Biological Illustration 431A and 431B and consent of instructor. Lecture 2 hours. Lab 9 hours. Staff

Completion of project. MED ILLUS

435. Special Study. (3-4) F, W, or Sp. Prerequisite: Consent of instructor and approval of director. Wakerlin, Beindorf

An elective for special study in area of choice. MED ILLUS

436A-B-C. Portfolio & Graduate Show. (4-4-4) F, W, Sp. Lecture 1 hour. Lab 9 hours. Wakerlin, Beindorf

Portfolio design and assembly; design and production of graduate show including budget and arrangements for space, guest lists, invitations, food and beverages for reception. MED ILLUS

Medical Information Science

172. Programming Style. (3) § W Prerequisite: Consent of instructor. Lecture 3 hours. Wasserman

A systematic approach to the design and construction of computer programs. Development of clear, reliable, efficient and easily modifiable programs; introduction and use of Pascal; use of software tools; programming exercises involving advanced programming techniques. MED INF SC

173. Intro to Microcomputer Systems. (2) § F Lecture 1 hour. Lab 2 hours. Staff

A survey of microcomputer systems providing basic conceptual models of computing in a health care environment. Introduction to computer terminology, hardware, operating systems, programming languages, and software tools. Overview of applications software: word processing, data-base management systems, and electronic spreadsheets. MED INF SC

190. Information Structures. (4) § Sp. Prerequisite: Knowledge of one higher level programming language. Lecture 3 hours. Lab 3 hours. Staff

Course covers elementary and high level information structures, data models, file organization techniques, searching, and sorting. Special topics in non-numeric information handling are also included. MED INF SC

199. Laboratory Project. (1-5) § F, W, Sp. Staff

A laboratory research project under direction of the faculty with the approval of the chairperson of the department. MED INF SC

200. Off-Campus Study. (0) § W Prerequisite: Approval of the graduate adviser. Open only to students enrolled in the graduate program in Medical Information Science. Staff

Full-time graduate study in the Medical Information Science program through the intercampus exchange or consortium program. MED INF SC
201. Content & Format of Information. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Whiting-O’Keefe

Consideration of the uses of medical information and its content, organization, and format to serve these uses. Emphasis is on the medical record as a medium of medical information communication, and a review of medical information coding methodologies. MED INF SC

202. The Medical Environment. (2) § F. Prerequisite: Consent of instructor. Lecture 2 hours. Blois

Survey of the professions, institutions, organizations, and populations involved in the health care process; the aims, expectations, and constraints involved in the medical environment. Course provides background for students without previous medical health care systems experience, concerning processes and functions. MED INF SC

210A. Computer Systems I. (4) § F. Prerequisite: Medical Information Science 190 or equivalent, or consent of instructor. Lecture 3 hours. Lab 3 hours. Wasserman

Introduction to computer system architecture, organization, operating systems, programming languages and their design. MED INF SC

210B. Computer Systems II. (4) § W. Prerequisite: Medical Information Science 210A or equivalent, or consent of instructor. Lecture 3 hours. Lab 5 hours. Wasserman

Language processors, software engineering concepts, specification and design of software systems, and software reliability. MED INF SC

222. Systems Analysis of Medical Care. (4) § W. Lecture 4 hours. Stimson

Introduction to use of operations research and systems analysis as aids to design, management or evaluation of medical care systems. Application of operations research techniques to hospitals and other health care facilities is studied within a systems framework. MED INF SC

225. Design of Systems. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Blois

The design of previous medical information systems is examined. Successful components of the systems will be studied in depth, with respect to cost, performance, and acceptability. Field trips to existing systems will be made. MED INF SC

240. Data Base Management. (3) § Sp. Prerequisite: Medical Information Science 210B or equivalent, or consent of instructor. Lecture 3 hours. Staff

Course covers techniques for logical and physical data base organization, data independence, models of data, approaches to large scale data base management, security and privacy, data description languages, and query languages. MED INF SC


Course covers the treatment of a number of fundamental concepts which form the basis of information science, such as the nature of information and communication, and the problem of representation of knowledge. MED INF SC


MED INF SC

290. Selected Topics. (1-6) § F, W, Sp. Lecture 1 hour. Lab 0-15 hours. Staff

Selected topics in medical information science. Subjects chosen will range from special topics in information science to hardware, software, and systems studies. MED INF SC

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

For graduate students engaged in writing the dissertation for the Ph.D. degree. MED INF SC

Medicine

110. Medicine Core Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and 132A-B-C. Open to UCSF students only. L. H. Smith, Jessop, Tierney, R. Haber, Woebier

Students are part of the ward team with the house staff and faculty. bedside instruction in history-taking, physical diagnosis, selected seminars in general medicine including the psychiatric aspects of medicine, and presentations and demonstrations of relevant cases. MEDICINE

111. Mechanisms of Disease. (1½ per week) Sp. Prerequisite: Fourth-year standing in medical school. Kane

An in-depth study of the mechanisms involved in serious disease processes. Emphasis on acquisition of basic science information by physicians and on the logical development of nosology and planning of intervention based on principles drawn from basic science. MEDICINE

131A-B-C. Intro to Clinical Medicine. (1-2-3) F, W, Sp. Prerequisite: First-year standing or consent of instructor. Lecture 1 hour. Section work 2 hours F, 4 hours W, Sp. Jessop

Interdepartmental instruction in: interviewing skills and techniques; basic physical examination and interpretation of symptoms relating to locomotor system, eye, ear, upper respiratory tract, and skin; and social responsibilities of medical practice. Lectures, clinical demonstrations, conferences, preceptorship in ambulatory care setting. MEDICINE

132A-B-C. Intro to Clinical Medicine. (8-8-8) F, W, Sp. Prerequisite: Anatomy 100, 102, and 103, Biochemistry 100A-B, Physiology 131A-B-C, Microbiology 100A and 100B (may be taken concurrently); Pathology 101, 102, and 105 (may be taken concurrently); Physiology
100 and 101; or consent of instructor. Lecture 5 hours, E W; 1 hour Sp. Lab 2 hours F Section work 4 hours F; Sp, 6 hours W. Jessop

Continuation of interdepartmental course on pathophysiology of disease and techniques of collecting and assessing clinical data, including history-taking, examination of the patient, and use of laboratory tests. Lectures, demonstrations, bedside work, laboratories, conferences, and independent study. MEDICINE

140.01. Advanced Medicine Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Satisfactory completion of Medicine 110 and consent of instructor for third-year students. L. H. Smith, Jessop, Tierney, R. Haber, Woeber

Students are assigned patients on the staff and private wards. They are supervised by attending and resident staff. They present patients on ward rounds, assist with procedures, and attend specialty conferences where their patients are involved. MEDICINE

140.02. Off-Campus Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and approval of third- and fourth-year coordinator. L. H. Smith, Jessop

Clinical clerkships in off-campus hospitals approved by the department chairperson, third- and fourth-year coordinator and the dean. MEDICINE

140.03. Adv Medicine Clerkship CRI—UC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and 141A (B-C). Cadman and Staff

On Clinical Cancer Chemotherapy Service, students work up patients, present them to attending staff and at conferences, do daily procedures, and write orders under supervision. MEDICINE

140.05. Cardiology—PMC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of instructor. Selzter

Students participate in various clinical cardiological activities and attend related teaching conferences and patient rounds. They are instructed in electrocardiographic interpretation and participate in daily ECG teaching sessions. MEDICINE

140.07. Oncology—SFCH. (1½ per week) F, W, Sp. Prerequisite: Medicine 110. Volberding

Students will evaluate patients with malignant diseases under the supervision of oncology fellows and attending physicians. Students will see oncology patients in outpatient clinic and on the inpatient consultation service. In addition to a broad exposure to a wide range of malignant diseases, the students will be allowed to participate in the outpatient evaluation of patients with AIDS and Kaposi's sarcoma. MEDICINE

140.08. Gastroenterology—UC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Ockner

Students examine hospitalized and ambulatory patients, participate in their care, and present case summaries to supervising gastroenterology fellows and attending physicians. They attend all rounds and teaching conferences and may observe performance of various diagnostic and therapeutic procedures. MEDICINE

140.09. Cardiology—MZ. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and 140.01 or equivalent senior ward medicine experience. Consent of instructor. Mailhot, E. Cohen, Paley

Students work up patients, follow through diagnostic procedures, phonocardiograms, echocardiograms, stress electrocardiograms, nuclear cardiology, and angiographic studies. Instruction in diagnosis of heart disease, pathophysiology of heart disease, heart sounds and therapy. Attendance at departmental conferences. Reading assigned. MEDICINE

140.10. Pulmonary Medicine—MZ (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and 140.01 or equivalent senior ward medicine experience. Consent of instructor. Addison

Consultative service including diagnostic pulmonary problems, Intensive Care Unit consultations. Fiberoptic bronchoscopy and physiologic evaluation. Students will work up patients and follow them on a daily basis, discussing all aspects of their care with pulmonary residents and attending physicians. MEDICINE

140.16. Hematology—SFCH. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Embury

Students will evaluate patients with hematologic diseases under the supervision of fellows and faculty, review relevant clinical laboratory data; learn to interpret bone marrow slides. Students will see hematology patients in the outpatient clinic and on the inpatient consultation service. Special emphasis will be on patients with sickle cell disease, other hemoglobinopathies, and coagulation problems. MEDICINE

140.18. Gastroenterology—VA. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. T. Boyer

Students share consultations and on-call with cardiology fellows; work up patients on wards; interpret electrocardiograms and Holter monitor studies; attend rounds and conferences. MEDICINE


Students share consultations and on-call with cardiology fellows; work up patients on wards; interpret electrocardiograms and Holter monitor studies; attend rounds and conferences. MEDICINE

140
140.20. Infectious Disease - V.C. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

J. Conte

Students work up and present patients under the direct supervision of the infectious disease resident. Patients are presented at attending rounds and infectious disease conferences. MEDICINE

140.21. Private Practice. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110. Approval of third- and fourth-year coordinator. Student must make arrangements with private practice physician. L. H. Smith, Jessop

Working experience with an internist on clinical faculty as he/she makes rounds in various private hospitals and at UC, sees patients in private office and on house calls, does follow-up studies, and reads electrocardiograms. MEDICINE

140.22A. Pathophysiology-Cardiovascular. (6) W Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Enrollment limited. Sebastian, Slesinger, Dohrmann

Overall emphasis on prototypes of cardiac disease demonstrating fundamental physiological defects. Lectures cover background material and general concepts. Students participate in discussions, attend laboratory demonstrations, are assigned topics for presentation, and are encouraged to develop ability to evaluate literature critically. Reading lists. MEDICINE

140.22B. Pathophysiology-Hematology. (6) F, Sp. Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Sperstein, Slesinger, Dallman, Ries

Overall emphasis on prototypes 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

140.22C. Pathophysiology-Renal Disease. (6) F, Sp. Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Enrollment limited. Sebastian, Slesinger

Intensive review of renal physiology and pathophysiology: Two seminars per day. Two-volume syllabuses of journal articles provided. Students participate in discussions and learn to evaluate literature critically. MEDICINE


Overall emphasis on prototypes 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

140.22E. Pathophysiology-Derm/Inf Disease. (6) F. Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Sperstein, Slesinger

Overall emphasis on prototypes 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

140.22F. Pathophysiology-Pharmacology. (6) W Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Enrollment limited. Pond, Sebastian

Emphasis on rational therapies. Participation in daily activities of the clinical pharmacokinetics laboratory to understand the effect of disease on drug disposition. Lectures cover theory and application of pharmacokinetics and pharmacodynamics to the treatment of disease. Reading lists. MEDICINE

140.22G. Pathophysiology-Immunology. (6) W. Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Enrollment limited. Sebastian, Slesinger, Stobo

Overall emphasis on prototypes 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


Overall emphasis on prototypes 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

140.22I. Pathophys-Endocrine Metabolism. (6) F. Sp. Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Sebastian, Strewler

Overall emphasis on prototypes 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

140.22J. Pathophys-Gastroenterology. (6) W. Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Enrollment limited. Sebastian, Boyer, Slesinger
Overall emphasis on prototypes 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. MEDICINE

140.22K. Pathophysiology-Pulmonary. (6) F, W. Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Enrollment limited.

Sebastian, Sleisenger, Golden

Emphasis on prototypes 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

140.22L. Pathophysiology-Nutrition. (6) W. Prerequisite: Medicine 110, Pediatrics 110 or Surgery 110. Enrollment limited.

Sebastian, Sleisenger, Baron

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

140.23. Endocrine Metabolism—UC. (1 ½ per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Baxter, Karam

Students based at Moffitt Hospital, twelfth floor south, act as assistants to residents and to endocrine fellows for consultations as well as for hospitalized endocrine patients; attend endocrine and metabolic clinics and seminars, and teaching exercises of endocrinology and metabolism, including Medicine Grand Rounds. MEDICINE

140.24. Rheumatology & Immunology—UC. (1 ½ per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Stobo

Familiarization with clinical manifestations, rheumatic disease therapy, immunologic disorders. Participation in in/outpatient clinics. Basic immunologic principles as related to clinically apparent immunologic dysfunction. Assignment of pertinent literature, lectures, and introduction to principles and practice of various immunologic testing. MEDICINE

140.25. Renal Disease—SFGH. (1 ½ per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Humphreys

Students work up and follow renal and electrolyte patients seen in the service, participate actively in hemodialysis and peritoneal dialysis; they attend thrice-weekly ward rounds and biweekly seminars in renal and electrolyte diseases. MEDICINE


uhley

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 electronic equipment, cardiovascular, and related aspects of electrocardiography. MEDICINE

140.27. Cardiopulmonary—C. (1 ½ per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Keres

Students attend rounds in the Coronary Care Unit; receive instruction in cardiology, stressing electrocardiography; may work in the pulmonary function laboratory, and attend all regular teaching conferences and seminars. MEDICINE

140.28. Infectious Disease—SFGH. (1 ½ per week) Su, F, W, Sp. Prerequisite: Medicine 110.

J. Mills

Course includes active consultation service averaging three new consults per day. Patient rounds, weekly combined infectious diseases pediatric mini-rounds and infectious diseases intercity rounds. Two half-day infectious diseases clinics per week. Reading and library research. MEDICINE

140.29. Hematology—UC. (1 ½ per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Cadman

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

140.30. Endocrine Metabolism—SFGH. (1 ½ per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Biglieri, Schambelan

The Endocrine-Metabolic Service provides daily house staff/fellow-supervised consultations, weekly clinic, biweekly rounds with senior staff, conferences on current research. Emphasis on clinical investigation studies of endocrine disorders in the Clinical Study Center. MEDICINE


Goldner

Students function as clinical clerks, working up patients under supervision of interns and residents. They assist in such specialized procedures as sigmoidoscopies per oral endoscopies. They attend radiology and pathology conferences and seminars with visiting consultants. MEDICINE

140.32. Coronary Care—SFGH. (1 ½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Fourth-year standing or consent of instructor. A four-week cardiology elective or Medicine 140.01 is recommended.

N. Goldschlager, Rapaport

Students work as interns in the Coronary Care Unit and attend all regular teaching conferences and seminars. MEDICINE
140.33. Infectious Diseases—PMC. (1½ per week) Su, Sp. Prerequisite: Medicine 110. Open to UCSF students only. Valentine

Students may elect clinical clerkship in infectious diseases. Activities include working up patients, relating laboratory data to clinical situations, making ward rounds, and attending seminars. MEDICINE

140.34. Renal Disease—UC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Rector

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, or electrolyte balance. Emphasis is placed on pathophysiology, history-taking, physical examination, and treatment. MEDICINE

140.35. Cardiology—SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Chaitlin, Rapaport, N. Goldschlager, Warnowicz, Byrd

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

140.36. Emergency Medicine—UC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and consent of instructor. Heller

Students serve forty hours per week, Monday through Friday, as externs working and sharing responsibilities with residents and interns. Lectures and emergency medicine conferences are held daily. Emphasis is on bedside instruction. MEDICINE


Students examine patients in Chest Clinic, on the wards and in RCU, and present them at ward rounds, pulmonary function and radiology conferences. They participate in pulmonary function testing and do assigned reading. MEDICINE

140.41. Gastroenterology—SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Limited to fourth-year students. Cello

Students are responsible for evaluation of gastrointestinal patients on medical and surgical wards. Students work up patients thoroughly discussed with gastroenterology staff. Students observe GI techniques including sigmoidoscopy, colonoscopy, endoscopy, liver biopsy. Daily clinical conferences are held at three affiliated hospitals. MEDICINE

140.42. Toxicology & Occup Med—SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Preference given to UCSF students. C. Becker

Students evaluate patients in hospital and clinic settings. Students participate in patient oriented rounds with special emphasis on toxicology, occupational medicine, drug overdose, drug abuse, and alcoholism, as well as treatment of cardiovascular and gastrointestinal diseases. MEDICINE

140.43. Rheumatology & Immunology—VA. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Seamen

A four- to twelve-week introduction to rheumatology and immunology, offering both clinical and laboratory experience. The student will participate in inpatient and outpatient care and take part in didactic and practical aspects of the research program. MEDICINE

140.45. Endocrine Metabolism—VA. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and consent of instructor. Enrollment limited. Priority given to UCSF students. Siperstein, Arnaud

An introduction to the diagnosis and treatment of endocrine-metabolism diseases. Areas covered are those endocrinopathies involving the major endocrine glands, as well as diabetes mellitus and hyperlipemias. Patients will be examined and treated in both the inpatient and outpatient services. MEDICINE

140.46. Pulmonary Medicine—SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Fourth-year medical student in good standing. J. Murray, Hopewell, Sheppard

Pulmonary disease, including clinical manifestations, basic pathophysiology, use and limitations of diagnostic studies and treatment. Experience will be gained by seeing patients on wards and through a series of ongoing conferences, ward rounds and review sessions under close faculty supervision. MEDICINE

140.52. Renal Disease—VA. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. Arieff

Clerkship in clinical nephrology. Lectures, rounds, conferences, renal biopsy review. Patients with acute and chronic renal disease, acute and chronic dialysis patients, patients with fluid and electrolyte problems. Renal grand rounds, journal club, nephrology research, and renal pathophysiology conferences weekly. MEDICINE

140.53. Infectious Disease—MZ. (1½ per week) F, W, Sp. Prerequisite: Medicine 110. L. Drew, Mintz

Clinical Infectious Disease Service and Clinical Microbiology Laboratory provide optimal integration of clinical and laboratory medicine. Emphasis on teaching techniques of diagnostic microbiology such as bacteriology, virology, parasitology, mycology, and diagnosis management of patients with infections; research in either area. MEDICINE


Students, teamed with a resident, will evaluate and share in the care of patients admitted to an acute care hospital. Experience includes
history-taking, physical examination, therapeutic plan, and progress notes. Attendance at daily teaching rounds and conferences. MEDICINE


Feigenbaum, H. Brownstein

Course offers opportunity for participation in various medically-oriented geriatric programs. Assignment to health care teams seeing patients at home, at MZ Geriatric Day Care Center, the Jewish Home for the Aged; in hospital consultations, and participation in multidisciplinary geriatric assessment. Supervision under MZ faculty and fellows in geriatric medicine. MEDICINE

140.57. Cardiology—VMC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of instructor. Deedwania

Students see patients in the coronary care unit, wards and clinics at the University of California Teaching Facility at Fresno. They will develop and implement treatment plans with the consultant, read electrocardiograms, and attend all seminars and conferences. MEDICINE

140.58. Pulmonary Disease—VAF. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of instructor. Stauffer, J. Carbone

Students on Chest Service will have primary care responsibilities for medical inpatients under supervision of the Physician Director of the Respiratory Care Service. Instruction on topics such as the use of respirators, arterial blood gas sampling and techniques. MEDICINE


Rotation through an active renal transplant service including clinical immunology, clinical renal pathophysiology, renal diagnosis such as X-ray, biopsy, scan. The student’s experience in the care of inpatients and outpatients will encompass other internal medical problems as well. MEDICINE

140.60. Rheumatology—VMC & VAF. (1½ per week) Su, F, W, Sp. Prerequisite: Fourth-year standing. Bertken

Experience with rheumatic diseases and chronic musculoskeletal pain including arthritides and collagen-vascular disorders as seen in clinics. Develop skills in history-taking, physical examination, selection and interpretation of diagnostic procedures, approaches to management, including drug therapy. Supervision by division chief and faculty. MEDICINE


Assignment to team with first- and second-year residents, rounds with attending faculty four to five times weekly; attend daily noon conferences; increase skills in history-taking, physical examination, write-ups, and oral presentation. Experience in writing orders countersigned by resident. MEDICINE

140.62. Emergency Medicine—MZ. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 or Surgery 110. C. Getz

Emergency room experience providing acute care to a mixed inner city and middle class population. Students see medical emergencies, minor trauma, and acute problems in a variety of disciplines including gynecology, ophthalmology, ENT, and orthopedics. Attendance at specialty conferences encouraged. MEDICINE

140.63. Advanced Medicine Clerkship—KP. (1½ per week) Su, F, W, Sp. Wagner

Fourth-year elective rotation for one month on medical wards at Kaiser Foundation Hospital in Oakland. Students will be integrated into the residency training program and will be involved in the care of hospitalized patients in an urban community prepaid health plan hospital. MEDICINE

140.64. Cardiology—UC. (1½ per week) F, W, Sp. Prerequisite: Medicine 110.

D. Perloff, Scheinman

Instruction in interpreting electrocardiograms as well as other diagnostic procedures used in cardiology, such as echocardiography, exercise testing, use of radioisotopes, electrophysiologic, hemodynamic, and radiologic studies. Students regularly attend cardiac and hypertension clinics, cardiology conferences and rounds. MEDICINE

140.65. Oncology—UC. (1½ per week) W. Prerequisite: Medicine 110 or Pediatrics 110 or Surgery 110. L. B. Epstein

Four one-week clinical rotations taught by faculty in inpatient medical, pediatric, radiation, and surgical oncology. Daily noon lectures on diagnosis, management, therapy of patients with malignancy by faculty and guest oncologists. Syllabus of pertinent references from current oncology literature. MEDICINE

140.66. Internal Medicine—VMC. (1¼ per week) Su, F, W, Sp. Prerequisite: Fourth-year standing. Libke, P. Murray

Students assigned to teams with first- and second-year residents, rounds with attending faculty, participation in daily conferences. Emphasis on pathophysiology of disease processes, management of acute medical problems. Refine skills in history-taking, physical examination, write-ups, presentations, techniques of diagnostic procedures. MEDICINE

140.68. Infectious Disease—VMC & VAF. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Libke

Management of common and unusual infectious diseases. May include use of antimicrobials in presence of impaired renal or...
hepatic function, treatment of infection in immunologically compromised host, etc. Participation in patient evaluation, treatment follow-up, ward rounds, conferences. Microbiology laboratory can be arranged. MEDICINE

140.69. Cardiology—VMC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of instructor. Grayson

Participation with house staff in patient care on CCU, ICU, medical wards, outpatient clinics. Introduction to invasive and non-invasive diagnostic procedures, techniques of management in care of hospitalized and ambulatory patients. Attend ECG interpretations, CCU rounds, consults, and teaching conferences. MEDICINE

140.70. Hematology, Oncology—VMC & VAF. (1½ per week) Su, F, W, Sp. Prerequisite: Fourth-year standing and Medicine 110. Stolberg, Jensen-Akula

Students participate in the work-up of hospitalized patients and follow up progress of patients in specialty clinics seen in consultation by hematology oncology staff. Clinical experience is augmented by reading program, slide review sessions, tumor board meetings and specialty conferences. MEDICINE

140.71. Pulmonary Disease—VMC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of instructor. Lohne, Hirasuna

Evaluation and management of adult patients with respiratory diseases, supervised by house staff and faculty. Pulmonary Medicine section. Emphasis on physical examination of chest, interpretation of X-ray, arterial blood gases, pulmonary function studies. Gain familiarity with respirators and other aspects of respiratory care. MEDICINE

140.72. Gastroenterology—VMC. (1½ per week) Su, F, W, Sp. Prerequisite: Fourth-year standing and Medicine 110. Gitlin, Quint

Participation in evaluation of patients with gastrointestinal problems (gastroscopies, ERCP, colonoscopies, liver biopsies, percutaneous, bowel biopsies) on wards and in outpatient clinic. Experience includes demonstration of investigation (acid perfusion and others), weekly clinical conference, liver histology, and tutorial discussion sessions. MEDICINE

140.73. Rheumatology & Immunology—SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110. I. Goldstein, Perez

Students will be assigned inpatients and outpatients for work-up and management under the supervision of fellows and attending physicians. Students also will participate in clinical rounds, clinical conferences, research seminars and journal clubs. MEDICINE

150.01. Research in Medicine. (1½ per week) Su, F, W, Sp. Prerequisite: Consent of faculty member in charge of student's research project and approval of third and fourth-year coordinator. L. H. Smith, Jessop

Students continue previously initiated research projects under the guidance of faculty members. MEDICINE

150.03. Cancer Viruses. (1½ per week) Su, F, W, Sp. Prerequisite: Basic course in microbiology. J. A. Levy

Tissue culture techniques and animal experimentation will be used to demonstrate the role of viruses in animal malignancies and autoimmune disease. Research serves as a model system for studying similar disorders in man. MEDICINE

160.03. Clinical Skills Seminar. (2) W, Sp. Prerequisite: Second-year standing or consent of instructor. Seminar 1 hour. Lab 3 hours. Fitz, K. Fitzgerald, Yeatch

Skills laboratory seminar designed to create a working relationship between medical and nursing students, using teaching and acquisition of clinical and communication skills as the interactive mode. Bedside skills for direct patient care will be taught and practiced. MEDICINE


Faculty and students participate in a combined clinical rounds-seminar course designed to develop students' analytical approach in relating basic medical research to clinical problems. Intended for advanced students in the Medical Scientist Training Program. MEDICINE

160.05. Clinical Occupational Medicine. (1½) F, W, Sp. La Dou, Garb

Clinical demonstrations and case presentations representative of occupational and environmental disease. MEDICINE


Instruction in basic electrocardiographic principles and interpretation of electrocardiograms. MEDICINE

170.05. EKG Interpretation. (1) W. Prerequisite: Medicine 131A. Lecture 1 hour. Rapaport

Review of physical principles of electrocardiography and clinical application of electrocardiographic interpretation. MEDICINE
170.08. Introduction to Cancer Medicine. (2) F. Lecture 2 hours. L. White
Biomedical, clinical, and psychosocial aspects of cancer will be explored. Course provides a humanistic orientation to cancer that will form a framework for better understanding and integration of information on cancer presented to other health science courses. MEDICINE

Faculty and students from basic science and clinical departments discuss their current research in this advanced seminar course for students interested in medical research. MEDICINE

170.10. Intro to Occupational Medicine. (1) W. Lecture 1 hour. La Dou
Practice of occupational medicine as related to the prevention, recognition, and treatment of disease and injuries resulting from employment. Interaction of economic, political and social forces bearing on worker health problems. Effects of the enterprise on the community and consumer. MEDICINE

170.11. Environmental Medicine. (1-5) F, W. Seminar 1-5 hours. La Dou
Tutorial concerned with environmental medical problems. MEDICINE

170.12. Geriatric Medicine. (1½ per week) W. Lecture 1½-2 hours. Feigenbaum
Course covers the physiology and psychology of normal aging, health care problems of the elderly, including confusional states. Techniques of rehabilitation medicine, use of medications, and sexuality in old age are reviewed. Site visits to a nursing home and an adult day health care program are optional. MEDICINE

170.13. Current Issues in Nutrition. (1) W. Prerequisite: Biochemistry 100B or concurrent enrollment. Lecture 1 hour. Nestle
Course emphasizes critical examination and analysis of the experimental evidence that relates dietary intake of specific nutrients to human disease conditions. MEDICINE

170.14. Nutrition in Health Sciences. (1) W. Prerequisite: Biochemistry 100B or concurrent enrollment. Lecture 1 hour. Nestle and Staff
Course emphasizes the application of nutritional principles for the prevention and treatment of disease in ambulatory as well as hospitalized patients. MEDICINE

180. Industrial Toxicology. (2) § Su, F, W. Sp. Prerequisite: Consent of instructor. Lecture 2 hours. C. Becker
To provide understanding of basic principles of toxicology as related to work environment and workers' health. Emphasis is on chemicals including heavy metals and pesticides, methods of surveillance, principles of acute and chronic toxicity testing. Includes lectures, student presentations, and discussion. MEDICINE

188.01. Nation's Health. (2) § F, W, or Sp. Lecture 2 hours. P. Lee and Staff
Course will address health policy issues related to the health status of the population, the determinants of health, and health care. Jointly offered with Sociology 160 and Sociology 220. MEDICINE

188.02. Health Policy Research Seminar. (2) § F, W, or Sp. Prerequisite: Consent of instructor. Lecture 1-2 hours. Seminar 1-2 hours. P. Lee and Staff
An introduction to the application of policy research methods to current policy issues; an interdisciplinary seminar. MEDICINE

188.03. Economics of Health. (2) § F, W, or Sp. Lecture 2 hours. P. Lee, Luft
This course will demonstrate how basic economic concepts and tools can be applied to problems in the health care system. Specifically: measurement of output; demand for care, insurance, and incentives; supply of physicians' services; health sector planning; and an alternative view of the system. MEDICINE

188.08. Health & Human Rights. (3) § F. Lecture 1½ hours. Seminar 1½ hours. Jonsen
The problems of allocation of health care and equity of access are analyzed as ethical problems. Alternative systems of distribution of care and technologies such as organ transplantation are studied. MEDICINE

189. Bioethics. (1) § F. Lecture 12 hours. Course is given as a two-day workshop. Jonsen
Four cases illustrating typical ethical issues: patients' rights to treatment, to refuse treatment, to choose one's own treatment, and to equal treatment, are presented and analyzed. Formation of personal ethical position in light of current law and ethics is stressed. MEDICINE

189.01. Ethics in Health Care. (1) § W. Lecture 12 hours. Course is given as a two-day workshop. Jonsen
Lecture and workshop discussion of several medical care situations in the light of their ethical and policy dimensions: care of endangered and defective newborns, experimentation using normal children, public funding of sterilization programs, and chronic disease and quality of life. MEDICINE

189.02. Biomedical Ethics. (1) § Sp. Lecture 12 hours. Course is given as a two-day workshop. Jonsen
Lecture and workshop discussion of ethical and policy dimensions of several current biomedical issues: aging and health care, fetal research, behavior technology, and the role of the pharmaceutical industry in health care. MEDICINE

198. Supervised Study. (1-5) Su, F, W. Sp. Prerequisite: Consent of instructor preceptor...
and approval of third- and fourth-year coordinator.

L. H. Smith, Jessop

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

199. Laboratory Project. (1-5) Su, F, W, Sp. Prerequisite: Consent of instructor preceptor and approval of third- and fourth-year coordinator.

L. H. Smith, Jessop

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. MEDICINE

200. Health & Aging. (2-4) § W, Sp. Prerequisite: Graduate standing. Consent of instructor. Lecture 2-4 hours. P. Lee, H. Lipton

Examines the health status of the aged in the U.S. in light of relevant biological, behavioral, sociocultural and environmental factors. Social, cultural and economic factors affecting the organization, financing, and delivery of health care to the aging population are examined. MEDICINE

400. Medical Staff Conferences. (2) F, W, Sp. UC L. H. Smith, SFGH Rapaport, VA Slesenger

Interns and residents prepare and present case histories of patients at medical staff conferences including references to the literature, laboratory work, and special studies. Faculty members and visiting professors discuss the cases and present new developments to their respective fields. MEDICINE


A series of discussions is conducted in the various subspecialties of internal medicine. Students take an active part in the presentation and discussion of the problems involved, including reference to the literature, clinical demonstrations, and directed student participation. MEDICINE


Seminars on recent literature in internal medicine, with assigned reading, required reports, and evaluation of presented material by interns, residents, and faculty. MEDICINE


Seminars are conducted in the fields of gastroenterology, hematology, cardiology, electrocardiology, endocrinology, chest diseases, psychosomatic medicine, arthritis and rheumatic diseases, infectious diseases, and radiology. Library research, occasional formal reports and patient presentations are required. MEDICINE

404. Specialty Seminar. (4) F, W, Sp. SFGH H. Williams and Staff VA Slesenger

Seminars are conducted in cardiology: hematology, gastroenterology, infectious diseases, metabolic diseases, and pathology, involving discussions, required reading, and reports. MEDICINE


Seminars are conducted in cardiology: electrocardiology, hematology, gastroenterology, radiology, fluid and electrolyte balance, endocrinology and pathology, involving discussions, required reading, and reports. Elective seminars include a chest disease conference, joint medical and surgical conference, tumor board, dermatology conference, and neuropathology conference. MEDICINE


Research programs are arranged with appropriate faculty members on an individual basis. MEDICINE


Residents take an active part in the presentation and discussion of problems connected with the correlation of clinical manifestations of disease with postmortem studies. Conferences include reference to the literature, clinical demonstrations, and laboratory work. MEDICINE

408. EKG Interpretation. (2) Su, F, W, Sp. Sokolow

Seminars (individual instruction) for residents in medicine and trainees in cardiology by cardiac consultants in the interpretation of all electrocardiograms and phonocardiograms taken at UC. MEDICINE


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 hospitals and outpatient clinics. MEDICINE


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

452. Clinical Medicine. (1½ per week) Su, F, W, Sp. VAF Rosenstiel

Residents 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
Crede and Staff
Interns 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.

Crede 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.

SPGH/ H. Williams
Interns rotate through medical wards and emergency hospital. Under the supervision of the attending staff, they are responsible for the care of patients, including history-taking, medical work-ups, laboratory tests, and consultation. MEDICINE.

SPGH/ H. Williams
A modified "straight" medical internship consisting of eight to nine months service in general medicine, chest, and the emergency rooms, with three to four months spent in other hospital services. MEDICINE.

UC L. H. Smith
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. (1½) Sp.
Prerequisite: Biochemistry 100A-B. Lecture 2 hours. Equivalent to Microbiology 121 and 190A.
Linscott
Lectures on the fundamentals of immunology. Small group seminars on patient-related problems in this field. MICROBIOL.

100B. Medical Microbiology. (6½) F.
Prerequisite: Biochemistry 100A-B. Lecture 4½ hours. Lab 3 hours. Conference 1 hour. Equivalent to Microbiology 190B.
W. Levinson
Pathogenesis of infection by bacteria, fungi, and viruses. Essentials of diagnosis, treatment, and epidemiology of diseases. Laboratory demonstrations and exercises of essential medical skills. Problem-solving exercises and small group seminars involving clinical cases. MICROBIOL.

120. Microbiology in Pharmacy. (3) Sp.
Lecture 3 hours.
Halden
Fundamentals of microbiology for pharmacy students with emphasis on mechanisms of disease production by bacteria, fungi and viruses. Antibiotics, mode of action and genetics, toxins, indigenous flora, hospital infections, immunization. MICROBIOL.

121. Immunology. (1½) Sp.
Prerequisite: Biochemistry 120A-B. Required course for students in the School of Pharmacy. Lecture 2 hours.
Halden
Lectures on the fundamentals of immunology, drugs in hypersensitivity and immunosuppression. MICROBIOL.

126A. Immunology in Dentistry. (1) Sp.
Lecture 1 hour.
R. Speck
Introduction to general immunology. MICROBIOL.

126B. Microbiology in Dentistry. (5) W.
Lecture 3 hours. Lab and conference 6 hours.
R. Speck
Comprehensive presentation of microorganisms including bacteria, fungi, viruses, fundamentals of infection and resistance, dis- infection, sterilization, and antimicrobial agents. Laboratory studies and demonstrations on indigenous oral flora and applications of microbiology to dentistry. MICROBIOL.

127. Microbiology Laboratory. (2) § Sp.
Prerequisite: Concurrent enrollment in Microbiology 120. Lab and conference 4 hours.
Halden
Morphology, physiology, and immunology techniques used in laboratory diagnosis of selected bacterial diseases. Antibiotic susceptibility, disinfection, and sterility exercises. Demonstration on virology. MICROBIOL.

Prerequisite: Microbiology 100A and 100B and consent of instructor.
Staff
Research in microbiology: block elective for fourth-year students. MICROBIOL.

190A. Med Immunology-Grad. Students.
(1½) § Sp.
Prerequisite: Biochemistry 100A-B. Lecture 2 hours for nine weeks. Equivalent to Microbiology 100A and 121.
Linscott
Lectures on the fundamentals of immunology. Small group seminars on patient-related problems in this field. MICROBIOL.

190B. Graduate Medical Microbiology. (6½) § F.
Prerequisite: Biochemistry 100A-B. Lecture 4½ hours. Lab 3 hours. Conference 1 hour. Equivalent to Microbiology 100B.
W. Levinson
Pathogenesis of infection by bacteria, fungi, and viruses. Essentials of diagnosis, treatment, and epidemiology of diseases. Laboratory demonstrations and exercises of essential medical skills. Problem-solving exercises and small group seminars involving clinical cases. MICROBIOL.

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

203. Molecular & Cellular Immunology.
(3) § F. Prerequisite: Biochemistry 100A-B and Microbiology 100A and 100B or equivalents. Lecture 3 hours. Offered in alternate years. Not offered 1984-85.
J. W. Goodman, DeFranco, Peterlin
Structural and functional aspects of antigens and antibodies, including chemical and genetic basis of immunogenicity; structure and biosynthesis of immunoglobulins, antigen-antibody interactions, immunogenetics, properties of immunocompetent cells, cell cooperation, lymphocyte receptors for antigens. MICROBIOI.

205. Selected Topics in Cell Immunol.
(3) § Sp. Prerequisite: Microbiology 203 and 204. Lecture 3 hours. Offered in alternate years. Not offered 1984-85. C. L. Miller
An in-depth analysis of selected areas in cellular immunology, including lymphoid cell interactions in immune regulation, specific and nonspecific immunosuppression, and genetic control of the immune response. MICROBIOI.

206. Pathogenic Fungi.
(2) § F. Prerequisite: Microbiology 100A and 100B or equivalent. Halde
A systematic review of the fungi responsible for human disease, emphasizing pathogenesis, epidemiology, and diagnostic laboratory procedures. MICROBIOI.

207. Cellular Immunology Lab.
(3) § Sp. Prerequisite: Microbiology 203, 204 and concurrent enrollment in Microbiology 205. Lab 9 hours. Offered in alternate years. Not offered 1984-85.
C. L. Miller

209. Special Topics in Immunology.
(1) § Sp. Prerequisite: Microbiology 203 and 204. Conference 1 hour. J. W. Goodman and Staff
Small group tutorial in which topics and correlative reading will be selected by students for discussion with individual faculty members. MICROBIOI.

(1-5) § F. Prerequisite: Microbiology 100A, 100B and 206. Lab and conference. Halde
Participation in research problems in a mycology laboratory. This is not a structured laboratory methods course, but rather a practical research experience involving basic research with pathogenic fungi. MICROBIOI.

220. Selected Topics Seminar.
(1) § F, W. Sp. Seminar 1 hour. Staff
General microbiology; individual research of advanced graduate students, invited speakers and staff members. Reviews of special topics and journal articles by advanced students. MICROBIOI.

250. Research.
(1-8) § F, W, Sp. Staff Microbiology
Techniques of in vitro induction of cellular immune responses, separation of A, T and B leukocyte subpopulations, Jerne Plaque assays and cell-mediated cytolysis assays will be performed. MICROBIOI.

299. Dissertation. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff
For graduate students engaged in writing the dissertation for the Ph.D. degree. MICROBIOI.

Neurological Surgery

Core Clerkship—Neurology 110. Students serve as clinical clerks in the inpatient and outpatient clinics.

140.01. Advanced Neurosurgery Clerkship.
(1½ per week) Su, F, W, Sp.
C. B. Wilson
The student will become a member of the house staff, attending ward rounds, working up patients, assisting at operations, and taking night call on rotation with a resident. Limited to one student per hospital. NEURO SURG

140.02. Off-Campus Clerkship.
(1½ per week) Su, F, W, Sp. Prerequisite: Neurology 110.
Pitts, P. Weinstein
Clinical clerkship in approved hospitals by special arrangement, and approval of the dean and chairperson of the department. NEURO SURG

198. Supervised Study.
(1-5) F, W, Sp. 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. NEURO SURG

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

400. Staff Conference.
(2) Su, F, W, Sp.
C. B. Wilson
Residents, under supervision, prepare and present case histories of ward patients including laboratory work, X-ray studies, special investigation and reference to the literature. Discussion is led by the faculty with participation by visitors. NEURO SURG

R. Davis, C. B. Wilson
Residents discuss clinicopathological aspects of cases, and their correlation with the literature and special studies. Faculty and visitors discuss developments in related fields. Second-year residents organize conferences and participate in gross autopsies on patients from the Neurological Surgery Service. NEURO SURG

Pitts
Recent literature in neurology and neurological surgery is presented. Discussion by members of the faculty in attendance and by visitors from other schools interested in this and related fields. NEURO SURG

C. B. Wilson
Residents, under supervision, are responsible for patient care in the wards and outpatient clinics including history-taking, physical examinations, laboratory tests, and consultations. In addition, the senior resident has certain administrative, teaching, and clinical responsibilities. NEURO SURG

Pitts
Residents are responsible for the care of patients, under the direction of the attending staff, including history-taking, physical examinations, laboratory tests, and consultations. In addition, the senior resident has certain teaching and administrative responsibilities required by the attending staff. NEURO SURG

P. Weinstein
Residents are responsible for diagnosis and care of patients in wards and clinics and performance of studies and selected neurosurgical procedures under supervision of the attending staff. They also present patients at conferences and attend seminars and rounds at UC. NEURO SURG

490. Clin Neurological Surgery—SF GH & VA
(1½ per week) Su, F, W, Sp.
P. Pitts, P. Weinstein
Interns rotate through neurological surgery wards. Under the supervision of the attending staff, they are responsible for the care of patients, including history-taking, neurologic examinations, laboratory tests, diagnostic procedures, and consultation. NEURO SURG

Neurology

Second-Year Coordinated Instruction—
Medicine 152A-B.C. Lecture-demonstrations and section work devoted to the supervised examination of patients.


Students are assigned patients for study under supervision of attending and resident staff. They attend work rounds, attending rounds, grand rounds, conferences and lecture-seminars, emphasizing diagnosis and management of common clinical problems and psychiatric aspects of neurology. NEUROLOGY

140.02. Off-Campus Clerkship, (1½ per week) Su, F, W, Sp. Prerequisite: Neurology 110.
R. Fishman
Clinical clerkship in approved hospitals by special arrangement and approval of the dean and the chairperson of the department. NEUROLOGY

140.03. Neurology Clerkship, (1½ per week) Su, F, W, Sp. Prerequisite: Neurology
110 and consent of instructor. R. Fishman, Goodin
Students serve as clinical clerks in the outpatient clinics. Attendance at departmental rounds, seminars, and conferences is required. Prior arrangements must be made. NEUROLOGY

Participation in child neurology activities, both inpatient and outpatient, and all regularly scheduled conferences of the Child Neurology Division. Study of the developing nervous system and diseases of the nervous system affecting infants, children and adolescents. NEUROLOGY

140.05. Advanced Neurology Clerkshp—
SF GH (1½ per week) Su, F, W, Sp. Prerequisite: Neurology 110 and consent of instructor.
R. Fishman, R. Simon
Students serve as clinical clerks in the outpatient clinics and on the consultation service. Attendance at all departmental clinical rounds, seminars, and conferences is required. Prior arrangements must be made. NEUROLOGY

140.06. Advanced Neurology Clerkship—
VA, (1½ per week) Su, F, W, Sp. Prerequisite: Neurology 110 and consent of instructor.
R. Fishman, Baringer
Students serve as clinical clerks in the outpatient clinics and on the consultation service. Attendance at departmental clinical rounds,
Opportunities for research in one of the departmental laboratories by arrangement with the chairperson of the department. NEUROLOGY

150.02. Neuropathology. (1½ per week) F, W, Sp. Prerequisite: Anatomy 103 and Pathology 102. R. L. Davis, Baringer
Tissue pathology of diseases of the nervous system will be explored in greater depth in the postmortem room and by gross and microscopic techniques. NEUROLOGY

198. Supervised Study. (1-5) Su, F, W, Sp. Prerequisite: Consent of instructor. R. Fishman and Staff
Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. NEUROLOGY

199. Laboratory Project. (1-5) Su, F, W, Sp. Prerequisite: Consent of instructor. R. Fishman and Staff
A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. NEUROLOGY

Seminars covering selected subjects in the basic sciences relevant to neurology including neuroanatomy, neurochemistry, neurophysiology, and neuropathology. NEUROLOGY

Conference includes resident preparation and presentation of patient case histories including reference to the literature, laboratory work, and special studies. Faculty members and visiting professors from other universities discuss new developments in their respective fields. NEUROLOGY

Course involves the presentation and discussion of clinical histories and pathologic findings in selected cases of neurologic interest and histopathologic study, and discussion of surgical and postmortem specimens from neurological and neurosurgical patients. NEUROLOGY

Course involves pathologic and clinicopathologic research into various aspects of neuropathology. Specific subjects of research are chosen in conjunction with members of the staff. NEUROLOGY

Neuroradiologic techniques and interpretations are reviewed in detail with particular emphasis on X rays of the skull and spine, pneumoencephalography, myography and arteriography. NEUROLOGY

Clinical and basic research in neurological disease. After consultation, assignments to one of the several departmental laboratories will be possible. NEUROLOGY

Specific projects in experimental pathology of the nervous system may be undertaken by direct arrangement. Techniques include neurohistology, histologic autoradiography, and electron microscopy. NEUROLOGY

Residents are responsible for the care of patients under the direction of the attending staff, and participate in student teaching. They serve on the inpatient, outpatient and consultation services. NEUROLOGY

Residents learn interpretation of electroencephalograms under the supervision of experienced electroencephalographers. They interpret electroencephalograms on patients they have seen clinically, with individual instruction available as required. Instruction is accredited by the Board of Qualification of the American Electroencephalographic Society. NEUROLOGY

Students learn the application of electromyography in the diagnosis of patients seen in the wards and in the outpatient clinic, with individual instruction as required. NEUROLOGY

Residents spend three months or more performing supervised autopsies and pathologic studies of brain, nerve and muscle. NEUROLOGY

Course offers experience in the diagnosis and management of children with acute and chronic neurological disorders. Outpatient clinics are held weekly for pediatric convulsive disorders and behavioral and learning problems of the schoolchild. NEUROLOGY

Residents participate in clinical evaluation of patients in preparation for rounds. Clinical teaching in neuro-ophthalmology. NEUROLOGY
Neuroscience

201A-B-C. Basic Concepts of Neurosciences. (4-4-4) § E, W, Sp. Prerequisite: Admission to Neuroscience Program or consent of instructor. Lecture 4 hours.

R. Steinberg, Reichardt, J. Korenbrot

An in-depth interdisciplinary introduction to fundamental aspects of nervous system function: membrane structure, biophysics, ion transport mechanisms, cellular neuroanatomy, synaptic transmission, integration; and development of synaptic connections invertebrate and vertebrate, sensory, motor systems, autonomic and neuroendocrine regulatory mechanisms, higher functions. PHYSIOLOGY

203B. Topics in Vision. (3) § W. Prerequisite: Neuroscience 201A-B-C. Consent of instructor. Lecture 3 hours. Offered in alternate years. Offered 1985-84.

R. Steinberg, Copenhagen, J. Korenbrot, Stryker, A. Kelly, Lisberger

Consideration at an advanced level of selected topics in vision from the retina to the cortex. Lectures, student presentations, and discussion of literature are included. PHYSIOLOGY

212. Developmental Biology. (3) § W Prerequisite: Consent of instructor. Lecture 3 hours. Enrollment limited. Offered every third year. Offered 1984-85.

Reichardt

Course covers current literature on the role of the cell's surface in development, with emphasis on immune and neuronal systems. Student presentations will be given each week. PHYSIOLOGY

220. Selected Topics. (1) § E, W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour.

Z. Hall

Topic in neurobiology is selected such as development, anatomy and physiology of the visual system, biochemistry of membranes. Pertinent papers from the recent literature are read and discussed. Each student must participate regularly and present one seminar per quarter. PHYSIOLOGY


Y-N Jan, A. Basbaum, H. A. Fields, L. Jan, Mayers, R. Nicoll

Course covers the possible roles of peptides in the nervous system. Current literature pertaining to functions of peptides in the nervous system such as neurotransmitters, hormones, trophic factors will be included. Emphasis on issues of current interest and new techniques. PHYSIOLOGY

230. Experimental Neurobiology. (5) § SS. Prerequisite: Consent of instructor. Lecture and lab.

Y-N Jan

Laboratory course designed to acquaint students with electrophysiology and anatomical methods used in studying peripheral and central nervous systems. Techniques include extracellular and intracellular recordings, iontophoresis, dye injection, tracing of neuronal pathways. PHYSIOLOGY

Nursing

103. Introduction to Nursing. (7) § E. Prerequisite: Admission to Articulated B.S./M.S. Program. Lecture 2 hours. Lab 15 hours.

C. West

Introduction to nursing and nursing process: fundamental nursing, terminology, facts, trends, and their application in nursing practice. PHYSIOL NURS

104. Nursing of Adults. (9) § E. Prerequisite: Admission to Articulated B.S./M.S. Program. Lecture 2 hours. Lab 21 hours.

C. West

Application of the nursing process to the physiological, psychological and sociological aspects of regulating response mechanisms to stress. PHYSIOL NURS

105. Maternal-Child Nursing. (9) § E. Prerequisite: Admission to Articulated B.S./M.S. Program. Lecture 2 hours. Lab 21 hours.

Svedra

Application of principles and theories to nursing care given during the life processes of reproduction, nurturance and development, and alterations due to stressors during pregnancy and child development from birth to adolescence. FAM HLTH

106. Psychiatric Mental Hlth. Nursing. (9) § E. Prerequisite: Admission to Articulated B.S./M.S. Program. Lecture 2 hours. Lab 21 hours.

J. G. Lipson

Principles and dynamics of personality and family development. Application of the nursing process with clients who have coping problems resulting from stressors in selected developmental or situational crises. MENT HLTH COM

122. Integrated Science. (4) § Lecture 4 hours.

Preissig

Examination of content in regulation, sensation, protection, and motion as they relate to adaptive mechanisms in man at the cellular level. PHYSIOL NURS

124. Professional Nursing Practice. (3) § E. Prerequisite: B.S./M.S. students only. Lecture 3 hours.

O'Rourke, Laffrey

Introduction to the basis for professional practice, academic work, and issues related to role change and role expansion. Transition from an illness to a wellness model and from an individual to an aggregate focus of nursing care. MENT HLTH COM

126. Human Behavior & Development. (3) § W. Lecture 3 hours.

Kayser-Jones

Examination of human development such as biological, cognitive and social aspects, and behavior across the life span. Emphasis will be on adult development and application to nursing practice. FAM HLTH
127. Acute Illness Adaptation. (5) F. Prerequisite: Admission to Articulated B.S./M.S. Program. Nursing 129 or concurrent enrollment. Lecture 2 hours. Lab 3 hours. Seminar 2 hours.

C. West

Course describes and explores concepts related to the nursing care of the acutely ill patient. Description of behaviors, measurements and nursing actions appropriate to the concepts will be compared and contrasted across a variety of acute illnesses. PHYSIOL NURS

128. Intro to Research & Theory. (3) W. Lecture 2 hours. Seminar 1 hour.

H. Wilson

Introduces basic research concepts, language, process, logic, and methods for various types of research as well as the meaning and use of nursing theory. Engages students in skills of intellectual craftmanship including effective reading, thinking, and writing to improve research consumerhip. MENT HLTH COM

129. Health Assessment. (3) F. Lecture 2 hours. Lab 3 hours.

Willis

Presentation of a basis for health assessment of clients within an adaptation-developmental model of nursing. Emphasizes data collection through history, physical examination, clinical studies, and identification of stressors altering health status. Laboratory for integration of theory and skill mastery. FAM HLTH

131. Psychosocial Adaptation. (5) W. Lecture 2 hours. Lab 8 hours. Conference 1 hour.

O’Rourke

Presentation and synthesis of concepts and processes from mental health and community nursing essential to the assessment and management of client-patient systems. Emphasis is on psychosocial adaptation to situational and developmental stressors. MENT HLTH COM

133. Family Health Care. (3) W. Prerequisite: Nursing 129. Lecture 2 hours. Lab 1 hour. Conference 2 hours.

Willis

Course deals with the healthy family as the primary unit of health care management. Nursing process applied to promoting family health is emphasized, utilizing the adaptation-developmental framework. Community involvement with a family is an integral part of the course. FAM HLTH


Staff

Course provides opportunity to develop a professional nursing role in a health care 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 HLTH COM


Laffrey

Application of nursing, family, and community health theory to community health settings, focusing on assessing, planning, implementing, and evaluating nursing care with families, groups, and the community. Health planning and public policy will be examined. MENT HLTH COM


Okamoto

Course deals with commonly used drugs, with emphasis on classification, use, rationale for choice, mode of action, and significant side effects. PHYSIOL NURS

177A. Adlt Primary Care Psychosoc Prob. (3) F. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

O’Rourke

Assessment and management of common adaptive responses to situational, developmental stressors, and interruptions in patterns of cognition, sensations, and feelings of adults. Nurse practitioners’ behaviors which interact with clients’ coping responses will be explored. MENT HLTH COM

177B. Adlt Primary Care Psychosoc Prob. (2) F, W. Prerequisite: Nursing 131 and/or Nursing 177A or consent of instructor. Lecture 2 hours.

J. G. Lipson

Assessment and management of common adaptive responses to situational, developmental stressors and interruptions in patterns of cognition, sensations, and feelings of adults. Nurse practitioners’ behaviors which interact with clients’ coping responses will be explored. MENT HLTH COM

181. Law & Nursing Practice. (2) § Sp. Lecture 2 hours.

Tennenhause

Survey of fundamental and critical current issues in law with respect to the theory and practice of nursing. Emphasis on legal contingencies encountered in the everyday practice of nursing in both hospital and community settings. PHYSIOL NURS


Grout

Course will prepare students to write and review scientific papers. 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


Ayres

Theories and concepts of femininity, masculinity, and sexuality throughout the life cycle. Exploration of the wide range of human sexual behavior. Content includes sexual response, common sexual dysfunction and therapy, masturbation, homosexuality, and sexuality in some health conditions. FAM HLTH


Staff

Groups of two or more collaborate in clinical investigation and studies of special prob-
202B. Prototype Theories. (3-4) F. Lecture 3 hours.

Meleis

Comparative study and critical analysis of major prototype theories from which conceptions of nursing are derived. Emphasis is placed on systems, symbolic interaction, developmental exchange, and adaptation level theories. MENT HLTH COM

202C. Theories & Conceptual Framework. (3-4) Sp. Prerequisite: D.N.S. student standing. Lecture 3 hours.

B. Hall

Comparative study and critical analysis of major conceptual models and theories in nursing. Considers relationship congruity of models to prototype theories; system, interaction, developmental, adaptation level theories. Examines the implication of nursing theories and models for practice and research. MENT HLTH COM


Oda

Study of theories and concepts of consultation as a facilitating process relevant to nurses working in primary, secondary, and tertiary prevention services. Emphasis will be on consultation strategies. Optional laboratory for theory testing. MENT HLTH COM

204A-B-C. Comparative Nursing Admin. (3-3, 2-3, 2-3) F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Term paper optional for 3 units.

Archer

Comparative analysis of nursing with emphasis on nursing administration in the United States and other selected countries, using perspectives from anthropological, educational, historical, organizational, philosophical, and sociological contexts applicable to each country. Particularly recommended for international students. MENT HLTH COM

204.99. Nursing Economics. (3) F. Prerequisite: Consent of instructor. Seminar 3 hours.

Harrington

Course offers a critical analysis of economic theories and public and private financing of health care. Focuses on the effects of financing and reimbursement on health care delivery systems, nursing and professional practice, and individuals and families. MENT HLTH COM

205. Management for Health Providers. (3) F, W, Sp. Prerequisite: Second-year graduate students, non-administrative majors. Seminar 3 hours.

Wells

A study of the management process, the role of the manager, the development of staff, and the principles and practice of management in health services. MENT HLTH COM

206. Adult Psychiatric Nursing. (3) W. Sp. Prerequisite: Nursing 227 and 219 or equivalent, and consent of instructor. Lab 3 hours Seminar 2 hours.

P. Underwood, H. Wilson

Seminar designed for graduate psychiatric nursing students to examine and discuss various theories and practice approaches to the nursing management of psychiatric conditions in adults. MENT HLTH COM


Carrieri

Advanced study of the theory and research in the care of patients with physiological disruption and/or illness. In-depth examination of patient problems, assessment and management in the student's selected specialty area. Seminar with clinical laboratory. PHYSIOL NURS

208A. Description Theory & Practice. (3) F. Prerequisite: D.N.S. student standing. Seminar 3 hours.

Lindsay

Using clinical rounds and seminar approaches, concepts related to major biological phenomena are examined and described from theoretical, clinical and empirical perspectives. Concepts of interest to nursing are selected from health-illness states observed in patients in acute care setting. PHYSIOL NURS
208B. Measurement Theory & Practice. (3) § W. Prerequisite: D.N.S. student standing, Nursing 208A or consent of instructor. Seminar 3 hours. **Carriero, Lindsey**

Seminar focuses on the measurement of concepts relevant to physiological processes. Students critically analyze existing quantitative and qualitative instruments used to measure the concepts. Exemplary concepts may include sleep, dyspnea, pain, immobility, cachexia. PHYSIO NURS

208C. Testing Theory & Practice. (3) § Sp. Prerequisite: D.N.S. student standing, Nursing 208A and 208B or consent of instructor. Seminar 3 hours. **Carriero, Lindsey**

Seminar focuses on the development and testing of instruments used to measure the concept selected by the student for study. The student will conduct a pilot study to determine the validity, reliability and utility of the instruments. PHYSIO NURS

209. Social Support Concept & Meth. (2-4) § W, Sp. Prerequisite: D.N.S. student standing. Seminar 2 hours. Independent study optional. 3 or 6 hours for 3 or 4 units. **Norbeck**

Analysis of the literature relating to social support to various health and adjustment outcomes with emphasis on conceptual and methodological issues. Students will develop a focused review of the social support literature relevant to their research and/or clinical interests. MENT HLTH

210A. Family Dynamics-Concepts & Asmnt. (2) § W. Lecture 2 hours. **Tescher**

An in-depth study of the theories dealing with family function and dysfunction. Individual dysfunction is seen from the perspective of family system structure and development. Analysis of theory includes identification of concepts that have heuristic value for nursing practice. MENT HLTH

210B. Family Dynamics-Pathology & Ther. (2) § W, Sp. Prerequisite: Nursing 279, 210A or equivalent and consent of instructor. Lecture 2 hours. **Tescher**

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

211A. Introduction to Research. (3) § F. Sp. Prerequisite: Elementary statistics or equivalent. Lecture 2 hours. Lab 3 hours. **Reif**

Lectures and small group sections present an overview of the research process including the styles of researchers, the research attitude, logic, ethics, philosophy, and tools of science. FAM HLTH

211B. Patient-Family Teaching Crtique. (3) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. **Hallburg**

Critique of studies in patient-family teaching with the intent to develop research consumerism. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HLTH

211.02B. Maternal-Child Nursing Crtique. (3) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. **Higley, Savedra**

Critique of studies in maternal-child nursing with the intent to develop research consumerism. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HLTH

211.04B. Death in Childhood Res Crtique. (3) § W. Prerequisite: Nursing 211A and consent of instructor. Seminar 3 hours. **Martinson**

Critique of studies related to the professional management of death, childhood development of the concept of death, children's response to death in the family, death anxiety in family for children, and impact of death of a child on the family. FAM HLTH

211.05B. Critique of Aging Studies. (3) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. **Harrington**

Critique of studies in the field of aging with the intent to develop research consumerism. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HLTH

211.07. Critique of Oncology Nursing. (3) § Sp. Prerequisite: Consent of instructor. Seminar 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. PHYSIO NURS

211.12B. Occup Hlth Res-Critical Review. (3) § W, Sp. Prerequisite: Nursing 211A or consent of instructor. Lecture 2 hours. Lab 3 hours. **Staff**

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

211.14. Illness Behavior Critique. (3) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. **Chafetz**

Critique of research in illness behavior, including psychiatric factors, with the intent to develop research consumerism. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. MENT HLTH
211.16B. Role of Social Support Critique. (3) § W or Sp. Prerequisite: Nursing 211A or consent of instructor. Lecture 2 hours. Lab 3 hours.

Norbeck

Critical analysis of studies which explore relationships between social support and individual functioning in a variety of life stress and illness situations. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of cooperation in the health sciences. MENT HLTH COM

211.20. Perinatal-Pediatric Critique. (3) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Ferketich

Critique of studies which reflect physiological or situational stressors in the high risk perinatal and pediatric patient. Course will facilitate the appreciation, appraisal and integration of research findings into clinical practice. PHYSIOL NURS

211.21B. Cardiopulmonary Res Critique. (3) § Sp. Prerequisite: Nursing 211A or consent of instructor. Lecture 2 hours. Lab 3 hours.

Stotts

Critique of cardiopulmonary research with the intent to develop research consumerism. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. PHYSIOL NURS

211.22B. Qltty Patient Care Res Eval. (3) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Carriero, Politeo, Barbaccia

Critique of research studies in quality of patient care, emphasizing the utilization of a systematic critique process, methodologies employed in evaluation programs, and identification of major problems in patient care evaluation research. PHYSIOL NURS

212. Clinical Research Methodologies. (3) § W, Sp. Prerequisite: Nursing 211A or consent of instructor. Lecture 2 hours. Lab 3 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 methods and computer usage. PHYSIOL NURS

213.01. Topics in Physiology—Sleep. (2) § W, Sp. Prerequisite: Consent of instructor. Lab 1½ hours. Seminar 1½ hours.

Robinson

Exploration of knowledge of sleep-wake cycles, physiology in and out of sleep, sleep disorders, biological rhythms, and methods in polysomnography. Applications to nursing will be made. PHYSIOL NURS

214. Community-Based Long-Term Care. (3) § W, Sp. Prerequisite: Graduate status or permission of instructor. Lecture 2 hours. Lab 3 hours.

Reif

Course analyzes empirical research and theory dealing with institutional approaches to long-term care. Examination of patient characteristics and needs, models of service delivery, factors affecting service utilization, and nurses' roles in provision and management of community-based long-term care. FAM HLTH

215A. Community Health. (2-3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab optional 3 hours.

Staff

Exploration of theories, concepts and principles pertaining to the practice of community health nursing with focus on positive health factors and interaction within families, groups and communities. MENT HLTH COM


Staff

Students will critically examine research on health status at the individual, group and societal levels. Emphasis is on the concept of health status, measurement methods, and implications of research approaches and findings for nursing practice. MENT HLTH COM

215C. Community Health Planning. (3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Staff

Exploration 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 HLTH COM

215D. Com Organization Strategies. (3) § W, Sp. Prerequisite: Consent of instructor.

Archer

Lecture 3 hours.

Exploration of strategies of institutional analysis, community assessment, and methods of community organization and development, which enable nurses to facilitate other's capacities to define, plan for, and meet their own physical, social, and mental health priorities. MENT HLTH COM

216. Interventions for Work Stress. (2) § F. Prerequisite: Graduate standing. Seminar 2 hours.

Baldwin

Course will help to enable students to evaluate the recent research and current models of nursing work stress. From this base, students will critically 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.

Tester

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 practicum recommended. PHYSIOL NURS/FAM HLTH
218A. Care of Ill or Injured. (3-4) § E
Pre requisite: Nursing 276. Prior or concurrent enrollment in physiology or consent of instructor. Lecture 1 hour. Seminar 2 hours. Lab optional 3 hours for 4 units. **Stotts, Dodd**

Knowledge is organized around phenomena common to ill or injured individuals across the life span. Concepts such as stress, healing, clotting, infection, consciousness, pain and coping will be examined from a theoretical and clinical perspective. PHYSIOL NURS

218B. Care of Ill or Injured. (3-4) § W
Pre requisite: Nursing 276. Prior or concurrent enrollment in physiology or consent of instructor. Lecture 1 hour. Seminar 2 hours. Lab optional 3 hours for 4 units. **Stotts**

Knowledge is organized around phenomena common to ill or injured individuals across the life span. Concepts such as starvation, ischemia, immobility, dyspnea, hypoxemia, body image and sexuality will be examined from a theoretical and clinical perspective. PHYSIOL NURS

218C. Current Therapeutics. (1-5) § E
Pre requisite: Physiology, Nursing 218A and 218B. Seminar 1-5 hours. **Stotts, C. West**

Investigation of the theoretical basis of selected therapies commonly used with the ill or injured. Therapeutic aspects of interventions as well as side effects will be explored. Recent research will be used as the basis for discussion. PHYSIOL NURS

218D. Illness or Injury Rehabilitation. (2-3) § W
Pre requisite: Graduate standing. Nursing 218A and 218B. Seminar 2 hours. Lab optional 3 hours. **C. West**

Examination of the theoretical basis for rehabilitation of patients following physical illness or injury. Nursing therapies which promote optimal adaptation and development are evaluated utilizing relevant research as a base. Clinical laboratory optional. PHYSIOL NURS

219. Psychiatric Assessment of Adults. (3) § W
Pre requisite: Nursing 227 or equivalent and consent of instructor. Seminar 2 hours. Lab 3 hours. **Burger, Wilson, Chaetz**

Seminar is designed for graduate psychiatric nursing students to examine and discuss various theoretical approaches to assessment of behavior in adults. Laboratory will be used to synthesize and test material. MENT HLTH COM

220.01. Adv Nursing Research—MHCN. (3)
§ F, W
Pre requisite: Successful completion of the qualifying examination and/or consent of instructor. Seminar 3 hours. **Meleis**

A seminar which guides doctoral students in the design and conduct of research in specialty areas in cross-cultural and international nursing and mental health and community nursing. MENT HLTH COM

220.02. Adv Nursing Research—FHNC. (3)
§ F, W
Pre requisite: Successful completion of the qualifying examination. Seminar 3 hours. **Staff**

A seminar which guides students in the design and conduct of research in specialty areas in family health care nursing. FAM HLTH

220.03. Adv Nursing Research—Physiol. (3) § F, W
Pre requisite: Successful completion of the qualifying examination. Seminar 3 hours. **Carriero**

A seminar which guides students in the design and conduct of research in specialty areas in physiological nursing. PHYSIOL NURS

221. Pathophysiology of Cancer. (3) § Sp
Pre requisite: Admission to graduate program and graduate-level physiology of the cell. Audits by permission only: Lecture 2 hours. Seminar 1 hour. **Lovejoy**

Course offers an introduction to fundamental concepts related to cancer and its treatment. Emphasis will be on implications for nursing practice. PHYSIOL NURS

222A. Principles of Nurse-Midwifery. (4)
§ E
Pre requisite: Enrollment in Nurse-Midwifery specialty. Lecture 3 hours. Lab 3 hours. **Burger**

Course critically analyzes scientific principles underlying selected obstetric and gynecologic diagnostic and therapeutic procedures in the management of health care of women throughout the childbearing cycle. FAM HLTH

222B. Nurse-Midwifery Management. (4)
§ W
Pre requisite: Enrollment in Nurse-Midwifery specialty. Lecture 4 hours. **Rhode**

Course expands the theoretical knowledge base of the normal physiology of the intrapartum period. Includes the management of normal labor and delivery and recognition of deviations from normal. Develops role adjustment relative to collaboration, consultation, and referral. FAM HLTH

222C. Advanced Problems in Nurse-Midwifery. (4) § Sp
Pre requisite: Enrollment in Nurse-Midwifery specialty. Lecture 4 hours. **Lops**

Course explores the theoretical concepts and principles applied to the management of pathophysiological and psychosocial issues complicating the birthing process. FAM HLTH

223A. Systems Analysis. (3) § Sp
Pre requisite: Consent of instructor. Lab 3 hours. Seminar 2 hours. **Tescher**

Selected general and social system theories are examined in relation to their contribution to the understanding of clinical nursing phenomenon, particularly in the area of patient care. MENT HLTH COM

223B. Systems Intervention. (3) § Sp
Pre requisite: Nursing 223A and consent of instructor. Lab 3 hours. Seminar 2 hours. **Tescher**
Organizational and social systems theories are used to assess functional and dysfunctional aspects of health care organizations that may affect the delivery of nursing care. Case studies and clinical work are used to explore appropriate intervention strategies. MENT HLTH COM

224. Cognitive & Behavioral Theories. (2) § W, Sp. Prerequisite: Graduate standing. Norbeck, Pothier

Behavioral theory and Piaget's theory of cognitive development will be presented, and research related to these theories will be reviewed. The relationship of these theories to human behavior and to clinical application will be developed in lectures and seminars. MENT HLTH COM

225. Psychiatric Nursing Concepts Res. (3) § Sp. Prerequisite: Graduate standing. Lecture 2 hours. Lab 3 hours. A. Davis

Exploration of the research conducted on selected major psychiatric-mental health nursing concepts to ascertain the state of the knowledge on which clinical practice is based. MENT HLTH COM

226A. Chronic Illness & Nursing. (3) § F Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Hallburg

Course offers a study of problems related to long-term illness. Explorations of the interrelationship of various cultural, psychosocial, and pathophysiological factors involved in chronic illness. Field experience included. FAM HLTH

226B. Chronic Illness & Nursing. (3) § W. Prerequisite: Nursing 226A or consent of instructor. Lecture 2 hours. Lab 3 hours. Hallburg

Further exploration of the complexities involved in the illness careers of patients with chronic illness and their families, including the implications for nursing. Analysis of the interrelationship of various cultural, psychosocial, and pathophysiological factors involved in long-term illness. Field experience included. FAM HLTH

227. Psychiatric Conditions Theories. (2) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. J. G. Lipson

Lecture-seminar with emphasis on comparative study and analysis of selected biological, sociological, and psychological theories of major psychiatric conditions. Selected research included. MENT HLTH COM

228. Human Communication Research. (2-4) § F, W. Prerequisite: Graduate standing. Lecture 2 hours. Lab 3 hours. A. Davis

Review of communication studies relevant to nursing. Studies will be organized around specific major concepts in communication theory. Students will be expected to gain background communication theory from the extensive bibliography. MENT HLTH COM

229. Comparative Research Methods. (2) § W. Prerequisite: Enrollment in doctoral program or consent of instructor. One quarter of theory. Nursing 202A, 202B, 202C or 290.01, 290.02, 290.03 and research. Nursing 278 recommended. Lecture 2 hours. Gortner

Underlying assumptions as well as design, measurement, and analytic issues pertinent to nursing research will be compared for various research methods. The advantages and disadvantages of approaches such as historical, descriptive, correlational, epidemiological, experimental, and action research will be examined. FAM HLTH

230. Legislative Processes. (2-4) § W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-6 hours. Archer

Exploration of legislative processes which affect professional practice. Analysis of strategies for proposal, passage, implementation, and evaluation of legislation. Examination of concepts and principles of professional lobbying, systems management of governmental relations, role of research and expertise in policymaking. MENT HLTH COM

230B. Legislative Processes. (3) § Sp. Lecture 3 hours. Archer

Exploration of legislative processes which affect professional practice. Analysis of strategies for proposal, passage, implementation, and evaluation of legislation. Examination of concepts and principles of professional lobbying, systems management of governmental relations, role of research and expertise in policymaking. MENT HLTH COM

231. Cardiac-Pulm-Renal Pathophysiol. (3) § Sp. Prerequisite: Three units graduate-level organ system physiology or consent of instructor. Lecture 3 hours. Wold and Staff

A study of cardiac, pulmonary, and renal pathophysiology applicable to nursing care of the critically ill adult patient. PHYSIOL NURS

232. Dimensions of Leadership. (3) § F Prerequisite: Consent of instructor. Lecture 3 hours. Archer

A critical review and analysis of concepts, theories, principles, and research studies related to leadership and management processes such as decision-making, communication, change, and conflict resolution. MENT HLTH COM

233A. Visual Data Study of Human Behav. (3) § Sp. Prerequisite: One course in research methods. Graduate standing and consent of instructor. Lab 3 hours. Seminar 2 hours. Highley

The use of still photography in the study of human behavior as it relates to health care. Includes the history of photography's impact on social and health policy; and explores issues related to design, sampling, and content analysis. FAM HLTH

233B. Visual Data Analysis. (1-2) § F Prerequisite: Nursing 233A and students using photographs in their research. Lecture 2 hours. Highley
Emphasis is placed on the content analysis of photographs used as data source in research. Criteria measures for analysis will be explicated through student's own data. FAM HLTH

234. Physiological Research Seminar. (3) § F. Seminar 5 hours. *Carrier*

Evaluation of research in the student's area of specialization. Emphasis is on critique of the design, methodology, and findings. Synthesis of the evaluation of studies results in the identification of major research questions in the field. PHYSIOL NURS

235. Implications of Nursing in Aging. (2-4) § F, W or Sp. Lecture 2 hours. Lab 0-6 hours.

Study of the physiological, psychological, and sociological aspects of aging. Focus is on selected theories and research relevant to nursing care of the aged. Laboratory utilizes a variety of settings serving the aged. PHYSIOL NURS

236. Expectant Parent Group Education. (2-3) § Sp. Prerequisite: Consent of instructor. Lab 3 hours. Seminar 2 hours. *May*

Theoretical sessions related to methodology and techniques of conducting expectant parent education groups. Exploration of content relevant to concerns of expectant parents encompassing childbearing and early child rearing experiences. Concurrent practicum recommended, but not required. FAM HLTH

237. Health Assessment through Life. (3-4) § Sp. Prerequisite: Department of Family Health Care Nursing students. Approval by F.O.R. Concurrent practicum required. Lecture 2-3 hours. Lab 3 hours. Goldman, McLain

Course presents theoretical principles of health assessment throughout the life cycle. Areas to be covered include methodologies of data gathering and data analysis essential to comprehensive health assessment of all groups. Laboratory experience provides application and integration of theory. FAM HLTH

238A. Infant & Child Development. (3) § F. Prerequisite: Consent of instructor. Lecture 3 hours. *Holiday*

Course covers major theories and research findings dealing with the physical, intellectual, and emotional development of the child from birth through school age. FAM HLTH

238B. Adolescent Development. (3) § W. Prerequisite: Consent of instructor. Lecture 3 hours. *Savedra*

Course explores relevant theory, literature, and research findings dealing with normal development during the adolescent period. FAM HLTH

239. Young & Middle Adult Development. (5) § Sp. Prerequisite: Graduate standing. Child Development, and consent of instructor. Lecture 3 hours. Seminar 2 hours. *Mercer*

This seminar, using an anthropological, sociological, and psychological perspective, will cover developmental theory and research from young adulthood through the middle adult years. Current issues in young and middle adulthood will be discussed with an emphasis on implications for health care. FAM HLTH

240A. Family Primary Care I. (5) § F. Prerequisite: Enrollment in Family Nurse Practitioner Program and Nursing 237. Lecture 5 hours. *McLain*

Theories, concepts and knowledge for comprehensive assessment and management of common health and illness conditions throughout the life cycle will be presented. Emphasis will be on primary care of the family unit. FAM HLTH

240B. Family Primary Care II. (5) § W. Prerequisite: Nursing 240A. Lecture 5 hours. *S. Carroll*

Theories, concepts, and knowledge for comprehensive assessment and management of selected episodic, stable chronic illness and related health conditions throughout the life cycle will be presented. Emphasis will be on primary care of the family unit. FAM HLTH

240C. Family Primary Care III. (5) § Sp. Prerequisite: Nursing 240A and 240B. Lecture 5 hours. *Bowe*

Theories, concepts, and knowledge for comprehensive assessment and management of special problems in family primary care will be presented. Emphasis will be on primary care of the family unit. FAM HLTH

241A. Primary Care Role Development. (1) § F. Prerequisite: Consent of instructor and concurrent enrollment in clinical residency. Seminar 1 hour. *Nilsen and Staff*

Critical analysis of issues and research related to collaboration in primary care. Emphasis will be on philosophical, interaction and role negotiation. Course is facilitated by Nursing and Medical faculty. FAM HLTH

241B. Primary Care Role Development. (1) § W. Prerequisite: Consent of instructor and concurrent enrollment in clinical residency. Seminar 1 hour. *Nilsen and Staff*

Critical analysis of issues and research related to collaboration in primary care. Emphasis will be on joint decision-making and conflict resolution. Course is facilitated by Nursing and Medical faculty. FAM HLTH

241C. Primary Care Role Development. (1) § Sp. Prerequisite: Consent of instructor and concurrent enrollment in clinical residency. Seminar 1 hour. *Nilsen and Staff*

Critical analysis of issues and research related to collaboration in primary care. Emphasis will be on organization and process of care. Course is facilitated by Nursing and Medical faculty. FAM HLTH

242. Individual Psychotherapeutic Modalities. (2) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 2 hours. *Staff*

Seminar intended for graduate students in psychiatric nursing to examine and discuss
theories and practice approaches of various individual psychotherapeutic modalities in current use. MENT HLTH COM

243. Group Psychotherapeutic Modalities. (2) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 2 hours. Furuta

A seminar intended for graduate students of psychiatric nursing to examine and discuss therapies and practice of various group modalities in current use. MENT HLTH COM

244. Nursing Assessment of the Neonate. (2-3) § F. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-3 hours. Briscoe, Loper-Hunter and Staff

Focus is on advanced history-taking and physical assessment of the neonate. Emphasis on the collection and interpretation of clinical data for the purpose of nursing management. PHYSIOL NURS

245. Self-Care in Nursing. (3) § W, Sp. Prerequisite: Consent of instructor. Lab 3 hours. Seminar 2 hours. P. Underwood

Course will critically review theories and research related to health care of the aged, mentally ill, and developmentally disabled in institutional setting, with an emphasis on nursing practice that will promote health and self-care in this population. MENT HLTH COM

246. Parenting Detrimental. (3) § F, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Tesler

Exploring of evolving mother-child relationship, adaptive tasks and environmental and interpersonal situations interfering healthy development of mothering. Implications for nurturing and nursing roles. PHYSIOL NURS

247. Long-Term Care-Policy Issues & Political Process. (3) § Sp. Seminar 3 hours. Harrington

A seminar focusing on issues and trends in legislation and politics of aging and long-term care. A discussion of nurses' roles stressing development of strategies to influence legislative and political processes that affect the planning and delivery of care. FAM HLTH

248. Group Independent Study. (1-6) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1-6 hours. Staff

Groups of two or more collaborate in clinical investigations and other studies of special problems in nursing and health sciences under the direction of faculty. Students may select areas related to their long-term interests and future research or clinical program.

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

Individual study with emphasis on special problems in nursing. Students may select areas of study which are related to their area of interest or future goals.

250. Research. (1-8) § F, W, Sp. Prerequisite: Admission to doctoral study and consent of instructor. Staff

251. Cross-Cultural Nursing Research. (3) § F, W, Sp. Prerequisite: Nursing 211A or equivalent and consent of instructor. Seminar 3 hours. Meceis, A. Davis

Seminars focus on theory and research in selected international health nursing problems. Emphasizes working with high-risk groups, examining situational stressors, adaptation, and coping strategies in transition, allocating scarce resources, and utilizing appropriate technology. MENT HLTH COM

252. Cross-Cultural Nursing Issues. (3) § F, W, Sp. Prerequisite: Consent of Instructor. Seminar 3 hours. A. Davis, Meceis

Seminars examining selected international nursing issues including primary care, nursing education and nursing service, women's roles and patients' rights. MENT HLTH COM

253. Physical Assessment. (3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Enrollment limited. K. Fitzgerald and Staff

Course provides an advanced knowledge base for history-taking and assessment of the ill or injured. Clinical laboratory is required. PHYSIOL NURS

254.02. Fetal-Newborn Development. (2) § F. Prerequisite: Consent of instructor. Lecture 2 hours. Loper-Hunter

Exploration of the critical phases and processes of fetal growth, development and function as a basis for understanding the genesis of congenital anomalies, pathophysiological problems in the newborn, and the nursing implications. PHYSIOL NURS

255.02. Child Health Maintenance. (2-3) § F. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-3 hours. Durand

Course provides exploration of theories, concepts and knowledge for comprehensive child health maintenance, encompassing prevention and promotion. Emphasis on parents as participants in assessment, decision-making, and management of common health problems and normal developmental stresses in infancy and childhood. FAM HLTH

255.03. Common Pediatric Illness Mgmt. (4) § W. Prerequisite: Consent of instructor. Lecture 4 hours. J. Lovett

Covers both physiological and psychological principles necessary for understanding management of common pediatric illnesses. Provides format for integrating material with clinical findings, utilizing developmental and communication concepts in assessment and management. Collaborative roles between nurse, family, and physician emphasized. FAM HLTH

256. Transitions & Health. (3) § Sp. Seminar 3 hours. Meceis

Critical and analytic review of theories and research that links health of the individual and families to relocations and transitions.
Emphasis on responses and coping with situational, developmental, health-illness, and sociocultural transitions. Nursing therapeutic theories will also be explored. MENT HLTH COM

257. Health of Aging Family Member. (3) § F. Prerequisite: Consent of instructor. Lecture 3 hours. G. Doyle

Course focuses on health promotion and maintenance of the older person within the family context. Exploration of applicable theories, concepts and principles. Special emphasis on physical, emotional and social resources for the frail elderly. FAM HLTH

258A. Family & Childbearing. (3) § F Lab 3 hours. Seminar 2 hours. May, Mercer

Critical analysis of psychosocial and physiological factors as they impact on the family during pregnancy and childbirth. Emphasis on evolung maternal/paternal roles and tasks related to pregnancy, body image, sexuality, childbirth and parenting. FAM HLTH

258B. Family & Childbearing. (3) § W Lab 3 hours. Seminar 2 hours. Mercer, May

Critical analysis of psychosocial and physiological factors as they impact on the family during childbirth and early parenting. Emphasis on transition to parenthood, parental and couple concerns, and issues in effecting change to provide optimal nursing care. FAM HLTH

259.01. Women’s Health-Theory & Mgmtnt. (1-4) § F, W. Prerequisite: Consent of instructor. Lecture 1-4 hours. Seminar optional 1 hour. K. Patterson, Neeson

Exploration of theories, concepts and knowledge necessary to maintain and promote women’s health. Emphasis on application of current research: decision-making and management of pregnancy, the interconceptional period, and the climacteric, including collaboration with health team members. FAM HLTH

259.02. Women’s Health-Special Problems. (1-4) § W. Prerequisite: Consent of instructor. Lecture 1-4 hours. Seminar optional 1 hour. Neeson, K. Patterson

Theory and management of bio-psycho-social deviations from normal in women before and during pregnancy, interconceptional period, and climacteric. Emphasis placed on critical analysis of research in metabolic, infectious, and functional disorders including collaborative management of women manifesting these disorders. FAM HLTH

259.03. Women’s Health-Advanced Seminar. (2) § Sp. Prerequisite: Consent of instructor. Seminar 2 hours. Neeson, K. Patterson

An in-depth exploration of theoretical and management aspects of selected complications in obstetrics and gynecology applicable to the nurse practitioner role. FAM HLTH


Introduction to basic concepts and issues in medical anthropology and transcultural nursing. Course provides opportunity to critically review research literature and discuss implications for nurses and other health care professionals. MENT HLTH COM

261. Computers in Nursing. (3) § F, W. Prerequisite: Consent of instructor. Lecture 3 hours. Slichter

Comparative analysis of potential effects on nursing of formalized patient and administrative information systems. Course will focus on critique of manual and computerized information systems in nursing. MENT HLTH COM

262. Attachment over the Life Span. (3-4) § W. Prerequisite: Enrollment in doctoral program. Lecture 2 hours. Field work 3-6 hours. Mercer

Course covers a critical analysis of interpersonal attachment theory during all phases of life and problems in the measurement of attachment. The student will develop a model to explain attachment in a specific situation or population. FAM HLTH

263A. Gerontological Long-Term Care. (3) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. G. Doyle, Willis

Course focus is on gerontological and chronic care nursing. Emphasis on selected frameworks used to assess and analyze relevant data. Impact of transitions within continuum of care upon clients and patients in institutional and community settings. Concurrent practicum is required. FAM HLTH

263B. Long-Term Restorative Nursing. (3) § Sp. Prerequisite: Nursing 263A. Consent of instructor. Lecture 2 hours. Seminar 1 hour. G. Doyle, Willis

Examination of restorative nursing care, including supporting principles, concepts, and theories. Exploration of prescribed nursing care, outcomes and evaluations for various institutional and community settings. Emphasis is on goal achievement and independence of each individual. Concurrent practicum is required. FAM HLTH

264. Soc Networks of the Mentally Ill. (2) § F. Prerequisite: Graduate standing. Lecture 2 hours. Norbeck

Social network characteristics of psychiatric populations are examined in relation to patient functioning and well-being. Research methods and findings will be analyzed and critiqued. Intervention programs to enhance the social networks of the severely mentally ill will be discussed. MENT HLTH COM

265A. Prog Planning Research Methods. (3) § F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 3 hours. Archer

Exploration of research approaches to program planning and evaluation, emphasizing conceptualizing the evaluation problem,
developing a research strategy, and implementing the evaluation. Focus is on problem definition and instrument construction. MENT HLTH COM

265B. Prog Planning Research Methods. (3) § Sp. Prerequisite: Nursing 265A and consent of instructor. Lecture 2 hours. Lab 3 hours. Archer

Exploration of research approaches to program planning and evaluation, emphasizing conceptualizing the evaluation problem, developing a research strategy, and implementing the evaluation. Focus is on data collection, analysis, and reporting. MENT HLTH COM

266. Leadership in Long-Term Care. (3) § Sp. Prerequisite: Consent of instructor. Seminar 3 hours. Harrington

Seminar examines leadership and administration in long-term care settings. Focuses on organization, budgeting, program planning, management, educational programs, and service delivery with emphasis on creative approaches and testing new models and theories. FAM HLTH

267. Ethical Dilemmas & Nursing Prac. (2) § F, W. Prerequisite: Graduate standing. Lecture 2 hours. A. Davis

Exploration of selected ethical theories and dilemmas in health care and nursing practice. Focus is on selected case studies depicting ethical dilemmas in nursing practice, nursing research, and health policy. MENT HLTH COM

268. Psychiatric Liaison Nursing. (2) § F, W. Prerequisite: Nursing 211A and enrollment in the child or adult psychiatric nursing specialty tracks, Department of Mental Health and Community Nursing, or consent of instructor. Lecture 2 hours. Faucett, Chaftetz

Course reviews the emerging literature on psychiatric liaison nursing. Reports on roles of psychiatric nurses in medical settings will be critically analyzed, as well as clinical studies from the area of general hospital psychiatry. Comparative models of practice are discussed. MENT HLTH COM


This course is designed to explore major issues and trends in contemporary nursing and health care delivery as they relate to nursing practice, education and research. MENT HLTH COM

270. Adult Health Assessment. (4) § SS2. Prerequisite: Consent of instructor. Lecture 4 hours. Hess

Course introduces assessment techniques for determining health status of adults. Focuses upon collection and interpretation of clinical data derived from the history and physical examination. Emphasizes identification of actual potential stressors as well as adequate responses. MENT HLTH COM

271A. Adult Primary Care Management. (1-4) § F. Prerequisite: Nursing 270 or consent of instructor. Lecture 1-4 hours. Staff

Introduces primary health care concepts essential to management of common physical illness in adults. Emphasis is on promotion of optimum client adaptation, selection of clinical interventions congruent with clients' adaptive potential, and incorporation of the nursing process into clinical decision-making. MENT HLTH COM

271B. Adult Primary Care Management. (1-4) § W. Prerequisite: Consent of instructor. Lecture 1-4 hours. Staff

Introduces primary health care concepts essential to management of common physical illness in adults. Emphasis is on promotion of optimum client adaptation, selection of clinical interventions congruent with clients' adaptive potential, and incorporation of the nursing process into clinical decision-making. MENT HLTH COM

271C. Adult Primary Care Management. (2-4) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Independent projects optional for 3-4 units. Staff

Introduces primary health care concepts essential to management of common physical illness in adults. Emphasis is on promotion of optimum client adaptation, selection of clinical interventions congruent with clients' adaptive potential, and incorporation of the nursing process into clinical decision-making. MENT HLTH COM


Introduction to principles of health maintenance care for adults including health risk appraisal and problem identification. Emphasis on health risks related to age, sex, race, health habits, history of individual and family illness. MENT HLTH COM

273. Concepts in Occupational Health. (3) § F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Resnik

The structure and organization of the occupational health system, including regulatory control mechanisms for worker protection, labor management relations, and costs are analyzed. Emphasis is on planning, development, and evaluation of occupational health programs. MENT HLTH COM

274. Health Hazards of Workplace. (3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Gliniecki

This is a prevention-focused course for nurses and other health professionals emphasizing recognition of chemical, physical, biologic and ergonomic hazards of work, identification of appropriate environmental monitoring methods, selection of health surveillance measures, and use of health promotion techniques. MENT HLTH COM

275A. Physiological Basis for Nursing. (1-3) § F, W Lecture 1-3 hours. Robinson, Preissig

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Study of physiological theories applicable to nursing. Focus is on normal cell functions and nervous and endocrine systems functions which serve as a basis for nursing practice. PHYSIOL NURS

275B. Physiological Basis for Nursing. (1-3) § W, Sp. Lecture 1 hour.
C. Robinson, Preisig

Study of physiological theories applicable to nursing. Focus is on normal function of gastrointestinal, cardiovascular, renal and pulmonary systems which serve as a basis for nursing practice. PHYSIOL NURS

275C. Neonatal Pathophysiology. (2) § Sp. Lecture 2 hours.
Loper-Hunter, Briscoe and Staff

Study of the major disease processes encountered in the neonate and their relevance to nursing practice. The course will address etiology, manifestations and treatment during the acute phase of illness. PHYSIOL NURS

276. Theoretical Perspectives in Nurs. (3-4) § F, W, Sp. Prerequisite: Consent of instructor. Lab 3 hours. Seminar 3 hours.
Lovejoy

Comparative study of selected nursing conceptions and theories and their implications for nursing practice, curriculum development and research. Critique of theories will address key questions relevant to nursing goals, intervention focus and outcomes, recipient of nursing and social significance. PHYSIOL NURS

277. Illness Management Research. (3) § F, W, Sp. Prerequisite: Nursing 211A, or graduate course on research methods in social science, or consent of instructor. Lecture 2 hours. Lab 3 hours. Course may be repeated for credit.
Reif

Methods for conducting exploratory studies on social-psychological and organizational factors which affect the management of illness and delivery of health services. Problem identification, collection and analysis of data, and presentation of findings and policy implications of research are included. FAM HLTH

278. Nursing Science History & Philos. (3-4) § F. Prerequisite: D.N.S. student standing or consent of instructor. Lecture 3 hours. Seminar optional 1 hour.
Gortner
An analysis of the history and development of nursing science and research in the United States, addressing the origins of scientific questions and methods in nursing, and the debates currently ongoing regarding definition, credibility, design, conduct, and outcomes of research. FAM HLTH

279A. Family Nursing–Theory Perspectives. (3) § F. Lecture 2 hours. Seminar 1 hour.
Ventura
Course investigates family models and family dynamics as they relate to nursing practice and research. Lectures explore family issues associated with health and illness behavior during family transition and stressful events. Seminars focus on applying concepts to interactions with families. FAM HLTH

279B. Family Nursing–Research Methodology. (3) § W. Prerequisite: Consent of instructor. Seminar 3 hours.
Ventura
Seminar in family methodology which critiques research studies and instruments that measure individual and family characteristics. FAM HLTH

279C. Family Stress & Coping Therap. (2-3) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar optional 1 hour.
Nolan, Ventura, McLaIn
Presentation of theories and research relative to care of the family as a unit. Course content focuses on methods of assessment, intervention and evaluation of family stress factors, resources and coping behaviors, as well as models of family nursing. FAM HLTH

280. Sex Counseling. (3) § W. Prerequisite: Nursing 189 or equivalent, and consent of instructor. Lecture 2 hours. Lab 3 hours. Enrollment limited.
Ayres
Theories, concepts, research, and techniques of sexual counseling with individuals and groups. A conceptual model will provide the direction for assessment, intervention, and evaluation of common sexual concerns and dysfunctions. Optional practicum available. FAM HLTH

281. Sexuality & Illness. (3) § Sp. Prerequisite: Nursing 189 or equivalent, and consent of instructor. Lecture 2 hours. Lab 3 hours.
Ayres
Physical, emotional, and interpersonal implications of short- and long-term illness on sexuality: Course includes review of research findings, analysis of relevant literature, and application of nursing process to selected medical/surgical conditions in sexuality. Optional practicum available. FAM HLTH

282. Pregnancy & Early Motherhood. (3-4) § W. Prerequisite: Enrollment in doctoral program. Lecture 2 hours. Field work 3-6 hours.
Mercer
An analysis of pregnancy and early motherhood including the relationship of physical and development to psychological and social phenomena. Students will develop a model to explain a phenomenon occurring during pregnancy or early motherhood. FAM HLTH

Norbeck
Exploration of prevention theory, mental health needs of children, and a model of delivery of mental health services through the collaboration of mental health specialists and primary health care providers. Analysis of theoretical bases for various intervention strategies. MENT HLTH COM

284. Adolescent Health Care. (2) § F. Prerequisite: Consent of instructor. Seminar 2 hours.
Savera, Dole
Examination and analysis of theory and research related to health care of adolescents and their families in a variety of settings. Emphasis will be on adaptation to selected stresses including trauma, chronicity, hospitalization, terminal illness and disability. FAM HLTH

285A. Psychiatric Research Methods. (2) § F. Lecture 2 hours. A. Davis
Course is part of a three-quarter sequence designed to teach research methods for utilization in psychiatric mental health settings. Clinical studies in mental health settings will be analyzed regarding research design. Students will develop their own clinical research. MENT HLTH COM

285B. Psychiatric Research Methods. (2) § W. Lecture 2 hours. P. Underwood
Course is part of a three-quarter sequence designed to teach research methods for utilization in psychiatric mental health settings. Clinical studies in mental health settings will be analyzed regarding research design. Students will develop their own clinical research. MENT HLTH COM

Course is part of a three-quarter sequence designed to teach research methods for utilization in psychiatric mental health settings. Clinical studies in mental health settings will be analyzed regarding research design. Students will develop their own clinical research. MENT HLTH COM

286A. Research in Stress & Coping. (3-4) § F. Prerequisite: Consent of instructor or doctoral-level theory development. Lecture 3 hours. Proposal development optional one unit. Benner
Course critically analyzes the relationship of stress and coping to health and illness. Examines theoretical and empirical links between coping strategies and therapeutic interventions. Emphasis is on research programs. PHYSIOLOGY NURS

286.01B. Stress & Coping--Cardiopulmonary. (3-4) § W. Prerequisite: Nursing 286A. Lecture 3 hours. Proposal development optional one unit. Benner
Course examines the current nursing, behavioral, and epidemiological research relating stress and coping to the etiology and course of cardiopulmonary disease. Theoretical and empirical links between coping resources, strategies, and helping interventions are also included. PHYSIOLOGY NURS

286.02B. Stress & Coping--Cancer. (3-4) § Sp. Prerequisite: Nursing 286.01B. Lecture 3 hours. Proposal development optional one unit. Benner
Course examines the current nursing, behavioral, medicine, and epidemiological research relating stress and coping to the etiology and course of cancer. Theoretical and empirical links between coping resources, strategies, and helping interventions are also included. PHYSIOLOGY NURS

287A. Organizational Theory & Research. (3) § F. Prerequisite: Consent of instructor. Lecture 3 hours. Wells, Flood
A critical review and analysis of major organizational theories and research. Emphasis is on open-system theories to examine characteristics of health service organization and the role of management. MENT HLTH COM

287B. Behavior in Organizations. (3) § W. Prerequisite: Nursing 287A and consent of instructor. Lecture 3 hours. Wells, Flood
Examination of the characteristics, causes, and consequences of behavior and experiences of individuals as they function in organizations. Emphasis is on personnel management and other managerial functions. MENT HLTH COM

287C. Processes in Administration. (3) § Sp. Prerequisite: Nursing 287A and 287B or consent of instructor. Lecture 3 hours. Wells, Flood
Synthesis and application of management theories and administrative processes. Emphasis on leading, planning, organizing, controlling, decision-making, managing change, and evaluating. MENT HLTH COM

288. Executive Nursing Administration. (3) § F. Prerequisite: Consent of instructor. Seminar 3 hours. S. J. Weiss
A seminar for doctoral students to analyze theories and research relative to executive nursing roles in academic and service settings. Critical examination of administrative concepts pertaining to governance, use of power, corporate designs, and executive scholarship. MENT HLTH COM

289. Labor Relations. (3) § Sp. Prerequisite: Consent of instructor. Lecture 3 hours. O'Rourke, W. Neff
Critical analysis of organization and exchange theories relative to managing employer-employee relations in health care and educational settings. Emphasis is on labor movement, labor legislation and regulation, contract negotiations and grievance procedures. MENT HLTH COM

290.01. Family Health Theory. (3-4) § F. Prerequisite: Enrollment in D.N.S. or other doctoral program. Lab 0-3 hours. Seminar 3 hours. Savedra
Comparative analysis of classical theories and methodologies for deriving a theory base for family health nursing. Emphasis is on interactional, role, structural-functional, and systems theories. FAM HLTH

290.02. Family Health Theory. (3-4) § W. Prerequisite: Nursing 290.01 or consent of instructor. Enrollment in doctoral program. Seminar 3 hours. Savedra
Comparative analysis of classical theories and methodologies deriving a theory base for family health nursing. Emphasis is on de-
Development, psychoanalytic, exchange, cognitive dissonance, conflict and field theories. FAM HLTH

290.03. Family Health Theory. (3-4) § Sp. Prerequisite: Nursing 290.01 and 290.02 or consent of instructor. Enrollment in doctoral program. Seminar 3 hours. SAVEDRA

Individual development of frameworks or models for study of a specific problem in family nursing. Emphasis is on critique of models generated by students and their applicability to research problems. FAM HLTH

291A. Pediatric Pathophysiology. (1-2) § W Lecture 1-2 hours. Ferketich

A study of pathophysiology applicable to pediatric nursing. Emphasis is on fluid and electrolyte imbalance, and hemopoietic, nervous, and endocrine system dysfunctions and their implications for nursing care. PHYSIOL NURS

291B. Pediatric Pathophysiology. (3) § Sp. Lecture 3 hours. Ferketich, Abu-Saad

A study of pathophysiological theories applying to pediatric nursing. The focus is on body system dysfunctions and the implications for nursing care. PHYSIOL NURS

292A. Maternal Physiology. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Mayberry

Review and analysis of advanced physiologic and pathophysiologic processes of pregnancy and their impact on the maternal-fetal unit as a basis for nursing practice and research. Emphasis is on reproductive and endocrine systems affecting adaptation and development during pregnancy. PHYSIOL NURS

292B. Maternal Physiology. (2) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Mayberry

Review and analysis of advanced physiologic and pathophysiologic processes of pregnancy as a basis for practice and research. Emphasis is on cardiovascular, hematologic, neuroendocrine, and renal systems affecting adaptation and development during pregnancy. PHYSIOL NURS

293. Nursing Serv & Educ Evaluation. (3) § F, W. Prerequisite: Consent of instructor. Seminar 3 hours. Holzemer

Case studies are utilized to demonstrate the activity of program evaluation in nursing service and education. JCAH and NLN criteria are examined. Evaluation designs, instrumentation, data utilization, and political components of evaluation for policy decision-making are critically analyzed. PHYSIOL NURS

294. Data-Gathering Methods. (3) § W, Sp. Prerequisite: One course in research design. Seminar 3 hours. Holzemer

Course will focus on selection and construction of data-gathering tools in nursing research. Validity, reliability and utility are discussed. Computer coding and conducting a pilot study are included. PHYSIOL NURS

295. Quasi-Experimentation in Res. (3) § F, Sp. Prerequisite: Consent of instructor. Seminar 3 hours. Holzemer

Seminar discussing validity issues of quasi-experimentation in nursing research. Designs examined in nursing literature include non-equivalent control group designs, interrupted time-series designs, passive observation, and randomized experiments. PHYSIOL NURS

296. Teaching Theories & Evaluation. (4) § W, 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. A microteaching format is incorporated for application and evaluation of selected teaching interactions. PHYSIOL NURS

297. Financial Management. (4) § W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 3 hours. Steffen

Critical analysis and synthesis of basic economic theories and accounting principles and their relationship to financial planning and control in health care and educational settings. Critiques nurse-manager's roles and responsibilities in fiscal management of these settings. MENT HLTH COM

298. Thesis or Comprehensive Exam. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff

For graduate students engaged in writing the thesis for the master's degree or taking a comprehensive examination required for the master's degree.

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

For graduate students engaged in writing the dissertation for the Doctor of Nursing Science (D.N.S.) degree.

401. Teaching Residency. (4-12) F, W, Sp. Prerequisite: Consent of instructor. Lab 12-36 hours. Staff

Opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor.

402. Administration Residency. (4-12) F, W, Sp. Prerequisite: Consent of instructor. Lab 12-36 hours. Staff

Opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor.

403. Consultation Residency. (4-12) F, W, Sp. Prerequisite: Consent of instructor. Lab 12-36 hours. Staff

Opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor.

404.01. Adult Primary Care Nursing—Clinical Preceptorship. (4-12) F, W, Sp. Prerequisite: Consent of instructor. Lab 12-36 hours. Staff
Course provides an opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor. MENT HLTH COM

404.06A. Pediatric Residency. (5) F. Pre-requisite: Consent of instructor. Lab 12 hours. Seminar 2 hours. Conference 1 hour. 

**Durand**

Course offers opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor. Focus is on development of the pediatric clinical specialist role in ambulatory child health care. FAM HLTH

404.06B. Pediatric Residency. (5) W. Pre-requisite: Consent of instructor. Lab 12 hours. Seminar 2 hours. Conference 1 hour. 

**Durand**

Course offers opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor. Focus is on development of the pediatric clinical specialist role in ambulatory child health care. FAM HLTH


**Durand**

Course offers opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor. Focus is on development of the pediatric clinical specialist role in ambulatory child health care. FAM HLTH


**Staff**

Opportunity to apply theory in clinical practice to further develop skills and to extend clinical expertise in selected aspects of mental health and community nursing. Guided clinical laboratory experience is designed to develop mastery of advanced skills. MENT HLTH COM


**Staff**

Opportunity to apply theory in clinical practice to further develop skills and to extend clinical expertise in selected aspects of family health care nursing. Guided clinical laboratory experience is designed to develop mastery of advanced skills. FAM HLTH


**Staff**

Opportunity to apply theory in clinical practice to further develop skills and to extend clinical expertise in selected aspects of physiological nursing. Guided clinical laboratory experience is designed to develop mastery of advanced skills. PHYSIOL NURS

409. Continuing Education Residency. (6-12) F, W, Sp. Prerequisite: Nursing 201 or equivalent, and consent of instructor. Lab 18-36 hours. 

**Staff**

Opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor. Focus is on development of the Continuing Education Specialist role in meeting continuing education needs of registered nurses.


**Staff**

Supervised practice in selected components of the teaching role in nursing.

Nutrition

130. Nutrition & Health. (2) W. Lecture 2 hours. 

**Silverstein**

An introduction to the basic principles of human nutrition. Subject matter is related to the maintenance of normal nutrition throughout one's life span, and emphasis is on normal nutrition and its preventive role in maintaining general health, specifically oral health. DENT PUB HLTH

160. Nutrition in Dental Hygiene. (2) F Lecture 2 hours. 

J. Levine

Review of biochemical principles of nutrition related to development and maintenance of oral tissue, and the interrelationship of foods. Emphasis will be on practical application of nutritional assessment and counseling for dietary/behavioral change. DENT PUB HLTH


**Talbot**

Supervised practicum in nutrition counseling with dental clinic patients. Students will apply techniques of diet analysis, preventive program planning, and patient counseling. DENT PUB HLTH

200. Maternal & Infant Nutrition. (2-4) W. Prerequisite: Consent of instructor. Lecture 2-4 hours. 

**Gutierrez**

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 on cross-cultural factors in assessment and counseling. FAM HLTH

201. Principles of Diet Therapy. (2) Sp. Prerequisite: Consent of instructor. Lecture 2 hours. 

**Gutierrez**

Concepts of dietary modifications as required in the prevention and treatment of major disease entities. Emphasis will be on current diet therapy research and on clinical approaches useful in practice. FAM HLTH

202. Counseling for Families. (3) F Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. 

**Gutierrez**

(1-3) Ob
Theory and practice in the interpretation of current concepts, principles, and research in nutrition for family counseling. Emphasis will be on cultural dietary patterns. FAM HLTH

Obstetrics, Gynecology and Reproductive Sciences

110. Ob Gyn Core Clerkship. (1¼ per week) Su, F, W, Sp. Prerequisite: Medicine 132A-B-C. Jaffe and Staff

Basic principles and fundamental techniques in obstetrics and gynecology, including the psychiatric aspects of obstetrics and gynecology, are discussed in a series of seminars, case discussions, and teaching clinics. Students gain practical experience in clinics, wards, delivery room, and operating room under direct supervision. OB GYN R S

140.01. Advanced Ob Gyn Clerkship-C. (1½ per week) Su, F, W, Sp. Prerequisite: Obstetrics and Gynecology 110, Pediatrics 110 and Medicine 110 or Surgery 110, or consent of instructor. C. Levinson

Students will have responsibilities of full-time acting residents on both the obstetrical and gynecological services. OB GYN R S

140.02A-B-C-D-E-F-G. Advanced Clinical Clerkships. (1½ per week) Su, F, W, Sp. Prerequisite: Obstetrics and Gynecology 110, consent of instructor, and approval of department of off-campus hospital. Braga, R. Glass

Advanced clinical clerkship. Senior clerkships in both inpatient and outpatient obstetrics and gynecology are available at the following and other various hospitals by arrangement: L, MZ, SJ, K, VMC, NRM. OB GYN R S

140.06. Advanced Gyn Clerkship-SFGH. (1¼ per week) Su, F, W, Sp. Prerequisite: Obstetrics and Gynecology 110, Pediatrics 110 and Medicine 110 or Surgery 110, or consent of instructor. R. Sweet and Staff

Course is individually structured for each student by the instructor, with emphasis on areas of interest and need for in-depth exposure to gynecology. OB GYN R S

140.07. Advanced Gyn Clerkship-UC (1½ per week) Su, F, W, Sp. Prerequisite: Obstetrics and Gynecology 110, Pediatrics 110 and Medicine 110 or Surgery 110, or consent of instructor. Braga, R. Glass

The clerk functions in the role of an acting resident on the gynecology service. Responsibilities are primarily on the inpatient service and will include both surgical and nonsurgical aspects of gynecologic oncology, endocrinology, infertility, and general gynecology. OB GYN R S

140.08. Ob Gyn Preceptorship. (1½ per week) Su, F, W, Sp. Prerequisite: Obstetrics and Gynecology 110 and 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 R S

150.01. Research in Ob Gyn & Repro Sci. (1¼ per week) Su, F, W, Sp. Prerequisite: Consent of instructor and chairperson of the department. Staff

A nonclinical research project under the direction of a member of the faculty. OB GYN R S

170.01. Sociocultural Aspects of Nutr. (1) Sp. Seminar 1 hour. Abrams

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 patterns. Brief written assignments and class discussions will develop practical approaches to the provision of nutritional care. OB GYN R S

198. Supervised Study. (1-5) Su, F, W, Sp. 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 R S

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

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. OB GYN R S


Seminar presentations in areas of the current interest in reproductive endocrinology by guest speakers and members of the Reproductive Endocrinology Center. Students will be required to submit a term paper. Course may be repeated for credit. OB GYN R S

230. Reproductive Endocrinology. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Minimum of 4 students. R. Weiner

Lectures and assigned readings on the 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 R S

251. Hormone Receptor Binding. (2) § F. Prerequisite: Consent of instructor. Lecture 2 hours. J. Roberts

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

400. Staff Conferences. (1) Su, F, W, Sp. Jaffe and Staff
Conferences comprised of formal discussions by staff, faculty, and visiting lecturers. OB GYN RS

Seminar includes the presentation of pathologic material from the obstetrical and gynecologic services with formal instruction and discussions. OB GYN RS

Laros Seminars include presentations of special topics, literature reviews, and discussions. Discussions of resident staff functions also are held. OB GYN RS

450. Clinical Obstetrics & Gynecology.
(10) Su, F, W, Sp. UC Laros, SFGH R. Sweet, C Webb
Residents are responsible for the care of patients in the outpatient clinic. Formal and individual instruction is conducted. OB GYN RS

Occlusion

180. Special Crown & Bridge Problems.
(1) W. Prerequisite: Consent of instructor. Lecture 1 hour. Enrollment limited. Pavone
Course covers the diagnosis and treatment of occlusal disorders of the adult dentition. The etiology of functional disturbances, analysis of occlusal relationships of the opposing arches, and a rationale for therapy will be presented and discussed. RESTOR DENT

Operative Dentistry

180. Advanced Operative Theory.
(1) F. Prerequisite: Operative Dentistry 130A-B-C. Lecture 1 hour. M. Stark Lectures and televised demonstrations covering quadrant dentistry, washed field technics, complex restorations, analysis of related research, and clinical applications of various restorative procedures. RESTOR DENT

180.1. Advanced Operative Theory.
(1) W. Prerequisite: Operative Dentistry 180. Lecture 1 hour. D. Knapp
Continuation of Operative Dentistry 180. RESTOR DENT

180.2. Advanced Operative Theory.
(1) Sp. Prerequisite: Operative Dentistry 180. Lecture 1 hour. D. Knapp
Continuation of Operative Dentistry 180.1. Organization of the material is planned in relation to progress of students enrolling in the 180 series. RESTOR DENT

189. Direct Gold Restorative Proc.
(1) F, W, Sp. Prerequisite: Open to fourth-year students with approval of the chairperson of the division. Clinic 3-6 hours. Enrollment limited. Schuchard
Techniques and procedures for Class III restorations using the conservative approach, as well as wedge and matrix. Work also will be done on Class V direct gold restorations. Students learn to use various materials including fibrous gold, goldent, and electrolyt. RESTOR DENT

(0-25) F, W, Sp. Prerequisite: All previous courses in operative dentistry curriculum sequence. Clinic variable. Schuchard
Continuation of clinical experience at the level of Operative Dentistry 109. RESTOR DENT

(0-4) Sp. Prerequisite: Approval of the chairperson of the division. Clinic 0-12 hours. Schuchard and Staff
Advanced instruction in the field of clinical operative dentistry, utilizing procedures different from those presented at the level of Operative Dentistry 109, such as quadrants and plastics. RESTOR DENT

199. Laboratory Project.
(1-5) F, W, Sp. Prerequisite: Approval of the dean. Schuchard and Staff
A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. RESTOR DENT

Ophthalmology

First-Year Coordinated Instruction—Medicine 131A-B-C. Lecture-demonstrations and section work devoted to the supervised examination of patients.

Core Clerkship—Surgery 110 and 111 include lectures and clinical experience in the diagnosis and care of eye diseases.

140.01A. Advanced Ophthalmology Clikshp.—UC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Surgery 110 or consent of instructor. O'Donnell
Students will serve as subinterns on the ophthalmology wards. They will work up and present patients, and attend surgery and postoperative clinics. This is an intensive clerkship where students will be on twenty-four hour call the entire time. OPHTHALMOL

140.01B. Advanced Ophthalmology Clikshp.—UC. (1½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. O'Donnell
Students will observe, work up and present ophthalmology outpatients at the Eye Clinic. They will attend department rounds and conferences. OPHTHALMOL

140.02. Off-Campus Clerkship.
(1½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. S. Kramer and Staff
Clinical clerkship in approved hospitals by special arrangement and approval by the dean.
and the chairperson of the department.  

140.03. Adv Ophthalmology Clerkship—SFH. (1½ per week) Su, W, Sp. Prerequisite: Consent of instructor.  

Goodner and Staff  

Clinical observation of patients in the clinics, wards, and surgery at SFH.  


H. B. Cohen  

Clinical observation of patients in the clinics, wards, and surgery at L.  

140.05. Adv Ophthalmology Clerkship—VMC. (1½ per week) Su, W, Sp. Prerequisite: Consent of instructor.  

Whitten  

Under close supervision, students are involved in the clinical observation of patients in the Eye Clinic, on the wards and in surgery, and participate in departmental conferences. Main objective of the course is to enable students to perform a complete eye examination.  

140.06. Adv Ophthalmology Clerkship—VA. (1½ per week) Su, W, Sp. Prerequisite: Consent of instructor.  

Stanley  

Clinical observation of patients in clinics, wards and surgery.  

150.02. Ophthalmology Research. (1½ per week) Su, W, Sp. Prerequisite: Consent of instructor and chairperson of the department.  

S. Kramer  

A research project under the direction of a member of the faculty carried out in the Department of Ophthalmology.  


S. Kramer  

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


S. Kramer  

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department.  


S. Kramer  

Residents prepare and present diagnostic and therapeutic problems. Discussion by faculty and visitors follows. Residents also present papers on various aspects of medicine and ophthalmology, which are discussed by faculty members.  


S. Kramer  

Conferences include grand rounds and case presentations of hospital patients, review of recent literature in ophthalmology, and assigned reading with required reports.  


S. Kramer  

Seminars include didactic lectures in practical work covering pathology, neuro-ophthalmology, uveitis, physiological optics, refraction, ocular motility, glaucoma, and microbiology.  


S. Kramer  

Didactic lectures and demonstrations cover the basic sciences as applied to ophthalmology: These include anatomy, histology, biochemistry, physiology, and pharmacology.  


M. Drake  

Residents, under supervision, are responsible for patients in the Eye Clinic. First-year residents assist in eye surgery and the Eye Bank program. Specialty clinics include external diseases, extraocular muscles, medical ophthalmology, ophthalmoscopy, refraction, cataract, glaucoma, neuro-ophthalmology, plastic surgery, and tumor.  


UC Beard, CHMC E. Stern  

Residents, under supervision, are responsible for patient care including diagnostic studies and treatment of medical eye care, diagnosis, surgery, and follow-up treatment of surgical eye cases.  


S. Kramer  

Fourth-year residency taken at UC or at any approved institution subject to the approval of the chairperson of the department and the dean.  


PH A. Schwartz, STM R. N. Shaffer, Schatz, CHS, SRM Rathburn, RDMC T. Moore  

Residents or fellows, under supervision, are responsible for patient care, including diagnostic studies and treatment of medical eye care, diagnosis, surgery, and follow-up treatment of surgical eye cases.  


Goodner  

Residents, under supervision of the attending staff, are responsible for patient care on wards and in the follow-up clinic, including diagnostic studies and consultation. This rotation is combined with patient-care assignments in the Otolaryngology Service.  

OPHTHALMOL.
Oral Diagnosis

Brady and Staff
Clinical instruction on an individual basis in a variety of areas of oral anatomy, including the study of the oral cavity and its various structures. This course is designed to prepare students for the comprehensive treatment planning as part of patient care activities in the clinical setting.

Brady
Continuation of clinical experience at the level of Oral Diagnosis 109. RESTOR DENT

Oral Medicine and Hospital Dentistry

Chinn, Caswell and Staff
Group rotation through two five-week sections: clinical diagnosis—patient presentation; entailing history-taking, examination, diagnosis, treatment, and follow-up; and medicine—introduction to internal medicine and physical diagnosis.

111. First-Year Special Study. (2) F. Corequisite: Passing of placement examination and consent of instructor. Lecture 2 hours.
Brady, Beirne, and V. Tatnagar
Discussion of biological problems of interest in dentistry including salivary, mineral metabolism, hydroxyapatite crystal structure, connective tissue, bacterial cell walls, oral bacterial metabolism, and blood coagulation.

STOMATOLOGY

T. E. Daniels
Handling of patients is introduced by emphasizing history-taking, differential diagnosis, medical implications, clinical pathology, and fundamentals of treatment. Classification, etiology, pathogenesis, diagnosis, and treatment of some benign lesions occurring in the oral cavity are covered. STOMATOLOGY

Beirne, Zier
Introduction to clinical medicine for dental students. Pathophysiology and differential diagnosis of disease will be discussed. Emphasis will be placed on ways in which medical diseases influence clinical care of dental patients.

126. Introduction to Oral Biology. (5) F. Corequisite: Anatomy 118. Lecture 4 hours, Lab 4 hours.
Christie
Introduction to oral biology correlating morphology, histology, and function of dental and paranasal structures. Topics include head and neck embryology, enamel, dentin, cementum, pulp and periodontal disease, dental caries, and local and systemic factors affecting oral health.

127. Introduction to Oral Pathology. (3) W. Corequisite: Oral Medicine and Hospital Dentistry 126. Lecture 2 hours, Lab 3 hours.
Greenspan, T. E. Daniels, and Merrell
Course correlates clinical oral pathology with histologic changes. Emphasis is placed on the microscopic and laboratory interpretation of cellular tissue, and chemical alterations.

Lecture 2 hours. Rotating seminar 8 hours.
Newbrun

Chinn
Clinical oral pathology for the dental hygienist. Diagnosis and management of oral diseases are covered. Use of diagnostic aids and methods of treatment are emphasized. STOMATOLOGY

Taylor
Seminar series covering differential diagnostic techniques and treatment approach to temporomandibular joint disease.

Christie
Advanced study of the oral tissues, with emphasis on histomorphological aspects.

Hansen and Staff
A seminar designed to acquaint postdoctoral students with current advances, techniques, trends, and developments in the field of oral pathology.

Greenspan
Lectures and seminars on immunological mechanisms and their contribution to oral diseases. Topics to be covered include the immunology of periodontal disease, oral microorganisms, oral autoimmune disease, and discussions of the interface of immunopathology and inflammation. STOMATOLOGY


L. Hansen

Lectures and seminars on diseases of the oral regions. Disease entities are studied from a clinical and histomorphological standpoint with emphasis on etiology and pathogenesis. STOMATOLOGY

179. Oral Medicine. (0-2) F, W, Sp. Prerequisite: D.D.S. degree. With consent of instructor, fourth-year students may take this course as an elective. Due to patient commitments in the clinic, students, once selected, may not withdraw. Clinic 10-20 weeks.

R. Taylor

Participation in the Temporomandibular Joint Clinic applying knowledge of history-taking and differential diagnosis and utilizing such diagnostic techniques. STOMATOLOGY

180A-B-C. Clinical Pathology Conference. (1-1-1) F, W, Sp. Prerequisite: Fourth-year standing. Lecture 1/2 hours.

S. Silverman and Staff

Clinical pathology conference; biology, diagnosis, and treatment of various oral lesions and associated patient problems. Some oral conditions are critically re-evaluated in the light of current research advances. Specific medical knowledge is related to patient care. STOMATOLOGY

181. Forensic Odontology. (1) F. Prerequisite: Fourth-year standing and consent of instructor. Lecture 1 hour.

T. L. Green

Identification by means of dental evidence, known as forensic odontology. Course includes identification procedures in single and multiple cases, including homicides and mass disasters, forensic dental radiology, bite marks and bite injury, the medicolegal autopsy, fire research, and forensic anthropology. STOMATOLOGY


Merrell

The advanced dental student participates in lecture-seminars, in which emphasis is placed on the diagnosis of oral disease correlating the history, clinical, operative, radiographic, laboratory, and histopathological findings. STOMATOLOGY

186. Intro to Biological Sciences. (1) SS. Lecture, laboratory, and demonstration 9 hours for three weeks. Christie

Introduction to the biological sciences taught in the first year of dentistry: anatomy, biochemistry, and physiology. Course includes one-half day per week orientation to the campus community. STOMATOLOGY


S. Silverman

Participation in the Oral Medicine Clinic: apply knowledge of history-taking and differential diagnosis; utilize various diagnostic techniques such as biopsy, cytology, and certain clinical pathology laboratory tests; interpret results, prescribe treatment and follow-up; hospital rounds and weekly seminar. STOMATOLOGY

189.03. Adv General Dentistry Clerkship. (1/2 per week) F, W, Sp. Prerequisite: Fourth-year standing and approval of Clinic Review Committee.

S. Silverman, Ware

Students provide comprehensive dental care to patients assigned to them, under supervision of staff in the medical and hospital environment. Students also attend seminars and conferences. STOMATOLOGY

190. Oral Medicine. (1/2) W. Lecture 1/2 hours.

S. Silverman, T. E. Daniels, J. Olson

Review of oral diseases most relevant to physicians. Biotechnology, diagnosis, management, and prevention are covered. Subjects include introduction to dentistry, caries, fluorides, periodontal disease, precancerous lesions, oral cancer, saliva, salivary gland disease, oral aphthae, herpes, smoking, diseases of the tongue. STOMATOLOGY


Staff

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. STOMATOLOGY


Newbrun and Staff

Principles and methods employed in oral biology, such as radioisotope techniques, spectroscopy, chromatographic techniques, use of animal models, cell fractionation and enzyme purification, methods in cell mediated immunology, antibody quantitation, immunohistochemistry, antibiotic sensitivity testing and indices for quantifying dental diseases. STOMATOLOGY


Silverman and Staff

A wide spectrum of selected topics related to oral biology is presented with emphasis on basic and applied research methodology, pertinence of problems, significance of findings, and critical evaluation of data. STOMATOLOGY


Silverman

Advanced considerations in the field of histopathology. Applications of newer tech-
niques and concepts are presented to increase understanding of the oral cavity in health and disease. Etiology, diagnosis, and therapeutics are discussed. STOMATOLOGY

208A-B-C. Oral Immunology & Immunopath. (2-2-2) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours.

J. Greenspan

Lectures and seminars on immunological mechanisms and their contribution to oral diseases. Topics to be covered include the immunology of periodontal disease, oral microbial diseases, oral autoimmune disease, and discussions of the interface of immunopathology and inflammation. STOMATOLOGY

209. Connective Tissue Biology. (2-3) § W, Sp. Prerequisite: Biochemistry 207 or consent of instructor. Lecture 2-3 hours. Staff

A seminar course in connective tissue biology, concerned mainly with the development, differentiation, and pathology of connective tissues; includes such topics as regulatory controls of connective tissue macromolecules, fibrosis, wound healing, inflammation, tissue destruction, and selected genetic disorders. STOMATOLOGY


A seminar series covering current advances in research in oral biology in a systematic manner. Current literature is critically reviewed by students under faculty supervision, or by faculty or guest lecturers. STOMATOLOGY


STOMATOLOGY

297. Special Study. (1-3) § F, W, Sp. Staff

Reading and conferences under the direction of a member of the staff. STOMATOLOGY

298. Thesis. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff

For graduate students engaged in writing the thesis for the master's degree. STOMATOLOGY

300. Teaching Practicum. (1-4) § F, W, Sp. Prerequisite: Consent of instructor. Staff

Practice in teaching a course in oral biology under the supervision of the instructor in charge. STOMATOLOGY

400. Maxillofacial Prosthodontics. (0-1) F, W. Lecture 1 hour. Zlotow

Course is designed to acquaint residents and fellows with the multidisciplinary aspects of maxillofacial prosthetics. Lectures will be given on maxillofacial prosthetic techniques, oncology, head and neck surgery, plastic surgery, oral surgery, therapeutic radiology, psychology, and related oral biology. STOMATOLOGY

406. Selected Topics. (1) F, W, Sp. Seminar 1 hour. Staff

A wide spectrum of selected topics related to oral biology is presented with emphasis on basic and applied research methodology, pertinent to problems, significance of findings, and critical evaluation of data. STOMATOLOGY


Lectures and seminars on diseases of the oral regions. Disease entities are studied from a clinical and histomorphological standpoint with emphasis on etiology and pathogenesis. STOMATOLOGY


Participation in the Oral Medicine Clinic applying knowledge of history-taking and differential diagnosis, utilizes various diagnostic techniques such as biopsy, cytology, and certain clinical pathology laboratory tests; interprets results, prescribes treatment, and follows up hospital rounds; and weekly seminars. STOMATOLOGY

489.02. Oral Medicine. (1) F, W, Sp. Prerequisite: D.D.S. degree and consent of instructor. Clinic 3 hours. Staff

Participation in the Temporomandibular Joint Clinic applying knowledge of history-taking and differential diagnosis; utilizes such diagnostic techniques as laminationographic X-rays, occlusal analysis, and other specific joint tests; interprets results, prescribes treatment, and follows up with patient reviews. STOMATOLOGY

Oral Radiology


Clinical experience in full-mouth radiography, emergency radiography, laminationography, panoramic radiography, darkroom techniques, and quality control. Application of anatomy, pathology and previous didactic experience in radiology in interpreting radiographs and in establishing differential diagnosis. STOMATOLOGY

109.02. Clinical Rotation in Radiology. (0-1) F, W, Sp. Prerequisite: Oral Radiology 121 and 129.01. Clinic and seminar. Kircos and Staff

Clinical experience and small group instruction are provided in oral radiology at the advanced predoctoral level. STOMATOLOGY


Introduction to principles of diagnostic radiology with foundations in physical and biological science. Includes historical contributions to radiology, production of X-radiation, interactions of X-rays with matter, biological effects of ionizing radiation, applications of radiological health, radiographic
image formation, and photochemistry. STOMATOLOGY

121. Radiographic Interpretation. (1) E Lecture 1 hour. Kircos
An introduction to the fundamentals of radiographic interpretation, some of the basic physics of X-ray generation, and radiation biology. STOMATOLOGY

Introduction to intraoral radiographic technique where the student demonstrates radiographic competence on mannequins and patients as well as compliance with the California Board of Dental Examiners examination on radiation safety. Provides radiographic experience necessary for transition to the clinic. STOMATOLOGY

131. Radiographic Interpretation. (1) Sp. Prerequisite: Oral Radiology 121. Lecture 1 hour. Kircos
Course is a continuation of Oral Radiology 121 and is intended to broaden the scope of radiographic interpretation. Additional aspects concerning radiation biology are also included. STOMATOLOGY

150. Oral Radiology for Dent Hygiene. (2) W. Lecture 2 hours. Kircos
Course covers basically the same material as Oral Radiology 121, but is modified to meet the special needs of the dental hygienist. STOMATOLOGY

159. X-Ray Technique. (1) W. Lab 3 hours. Kircos
A course in intraoral X-ray technique including instruction in the long cone paralleling method and practice on mannequins and skulls. STOMATOLOGY

169. Intraoral & Panoramic Radiography. (1) E Prerequisite: Oral Radiology 150 and 159. Clinic 3 hours. Kircos
Course offers, in addition to intraoral technique, instruction and experience in panoramic radiography. STOMATOLOGY

Continuation of Oral Radiology 121 and 131 in a seminar teaching format. STOMATOLOGY

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. STOMATOLOGY

Oral Surgery

109. Clinical Oral Surgery. (0-7½) SS, F W. Sp. Prerequisite: Third-year standing. For senior rotation, student must have passed Oral Surgery 120, 130A, 130B, 130C, 131 and 132 or have consent from the division chairperson. Clinical variable. Staff
Students learn to recognize and treat common dental and medical emergencies, perform routine exodontia and minor oral surgical procedures; assist on major procedures in operating room setting; utilize common techniques of pain and anxiety control; assist with admission, work-up and discharge of hospital patients. STOMATOLOGY

120. Local Anesthesia. (½) Sp. R. A. Smith, Beirne, N. Gordon
Course covers local anesthetics and techniques as they pertain to the dentition and oral cavity. STOMATOLOGY

130A. Dental Implant Surgery. (1) SS. Prerequisite: Anatomy 117A-B and Microbiology 126A-B. Lecture and seminar. N. Gordon, R. A. Smith, Beirne
An introduction to the basic principles of exodontia, dental implant surgery, postoperative care, hemorrhage control, and management of common complications. STOMATOLOGY

130B. Pain & Anxiety Control. (1) E Prerequisite: Anatomy 117A-B and Microbiology 126A-B. Lecture 1 hour. N. Gordon, R. A. Smith, Beirne
A didactic course outlining the basic principles and techniques of pain and anxiety control in the dental office. Emphasis is on nitrous oxide and oxygen and intravenous sedation. STOMATOLOGY

130C. Diagnosis & Treatment of Pain. (1) W. Prerequisite: Anatomy 117A-B and Microbiology 126A-B. Lecture 1 hour. R. A. Smith, N. Gordon, Ware
A didactic course covering current advances in the field of pain and a variety of topics such as physical evaluation of the pain patient, temporomandibular joint dysfunction, myofascial pain, and neuralgia. STOMATOLOGY

Procedural skills and academic knowledge the general dentist should be familiar with: includes the treatment of developmental deformities of the jaws, infections, temporomandibular joint, fractures of the jaws and contiguous structures, preprosthetic surgery, and osteomyelitis. STOMATOLOGY

Medical evaluation of dental patients and in depth evaluation and treatment of patients with medical problems. Evaluation and treatment of cardiac arrest. Discussion of emergency drugs and development of an office emergency kit. Demonstrations of parenteral administration of drugs. STOMATOLOGY
171. Applied Surgical Anatomy. (1) F, W, Sp. Prerequisite: Limited to interns and residents. Lab 3 hours. Lambert

Relationships of gross anatomical structures of the head and neck are studied during laboratory dissections. Emphasis is placed on the correlation of cadaver dissection findings to diagnosis and operating room surgery. STOMATOLOGY


Residents will participate in evaluation and defining treatment options for patients with facial and dental deformities. STOMATOLOGY


Seminar includes presentation of case studies, literature review, clinical pathology presentations, and occasional guest lectures. STOMATOLOGY

175. Advanced Clinical Oral Surgery. (1½ per week) Su. Prerequisite: Limited to oral surgery interns. Hospital and clinic 40 hours. Pogrel

Interns and residents, under supervision, are responsible for preparation of case records, laboratory work, preoperative patient preparation, attendance at surgery, postoperative care, and attendance at follow-up clinics. In addition, senior residents have certain administrative, teaching and clinical responsibilities. STOMATOLOGY

189.04. Advanced Clinical Oral Surgery. (0-16½) Su, F, W, Sp. Prerequisite: Four-year standing and approval of departmental chairpersons. R. A. Smith, Ware, Gordon

Clerkships may be at UC, SFGH, MZ, VA, or at another affiliated institution. Students participate in oral surgery care of hospital inpatients and outpatients, attend seminars and lectures. STOMATOLOGY

199. Laboratory Project. (1-5) F, W, Sp. Beirne

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. STOMATOLOGY


Course is designed to teach the dental intern exodontia procedures under close supervision in the oral surgery clinic. The trainee takes responsibility for care of the oral surgery patient including preoperative evaluation, surgery planning, and postoperative care. STOMATOLOGY

Orthodontics

109. Clinical Orthodontics. (0-5) F, W, Sp, SS1, SS2. Prerequisite: Orthodontics 121 and 131A-B. Orthodontics 151B may be taken concurrently. R. Boyd

Evaluation and treatment of clinical orthodontic problems as experienced in general dental practice. Students will treat problems and refer others to specialists. Observation of specialists’ management of the more difficult problems is included. GR DEVEL

121. Development of Occlusion. (1) Sp. Lecture 1 hour. Isaacs

Course describes the mode of growth of the craniofacial complex. General aspects of growth with clinical implications for the growing child are discussed, including eruption of teeth and their correlation with facial growth. GR DEVEL

131A-B. Orthodontics in General Practice. (0-3, 0-3) F, W. Prerequisite: Orthodontics 121. Lecture 2 hours F; 1 hour W. R. Boyd, Quinn

Recognition and treatment of the problems most commonly seen by the general practitioner. GR DEVEL

160. Orthodontic Concepts. (1) Sp. Lecture 1 hour. E. West

A discussion of recognition, etiology, and principles of orthodontics for the dental hygienist. GR DEVEL

170.01A-B-C. Journal Club. (1-1-1) F, W, Sp. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Seminar 1 hour. Litt

A participation course in the review, analysis, and critical evaluation of the professional literature dealing with orthodontics and its related fields. GR DEVEL

171. Orthodontics in Periodontic Pract. (1) W. Prerequisite: Consent of instructor and enrollment in a postdoctoral specialty program. Lecture 1 hour. E. West

Course includes orthodontic principles and techniques that are applicable in a periodontic practice. GR DEVEL

171.01. Concepts of Occlusion. (1) SS1, SS2. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric programs or consent of instructor. Lecture 1 hour. Nielsen

Various concepts of occlusion and its biological determinants will be discussed as they affect functional problems of the temporo-mandibular joint. GR DEVEL

171.02A-B-C. Practice Management. (2-2-2) F, W, Sp. Prerequisite: Enrollment in postdoctoral orthodontics or pediatric dentistry programs or consent of instructor. Lecture 2 hours. Scholz, Moawad

A survey course intended to prepare the student to deal with the realities of managing an orthodontic practice. Thirty-six topics are explored and discussed by students and faculty.
problems of dental practice.

1. E. West 3rd, and mental hygiene.

2. F. W., doctoral student.

3. Litt: analysis, oral literature.


5. West: dentistry and orthodontics.


7. iss: biometrics and time.

8. ort: postgraduate orthodontic education.

9. Orthodontics and Orthopaedic Surgery: 127

1. 171.03. Functional Appliance Therapy. (2) SS1, SS2. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Lecture 2 hours.

2. Scholz: This course is designed to provide the skills necessary to select the appropriate functional appliance, design the appliance, instruct the laboratory in the making of the appliance, and manage the patient’s treatment to a successful conclusion. GR DEVEL.

3. 172A-B-C-D-E. Evaluation of Facial Form. (2-2-2-2-2) F, W, Sp, SS1, SS2. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Lecture 2 hours.

4. Nielsen: Use of diagnostic radiography in the evaluation of dental and facial morphology is presented. Evaluation of morphological relationships, facial growth and development, skeletal maturation, the biological response to treatment modalities, and the complex interrelationships of these factors will be discussed. GR DEVEL.

5. 172.01A-B-C. Research Design. (1-1-1) F, W, Sp. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Lecture 1 hour.

6. Word, Baumrind: Principles of statistics and research design will be explored. Topics include statistical inference, hypothesis testing, analysis of variance, correlation, and multiple regression. The design of experimental and quasi-experimental research will be discussed and experience in computer software usage provided. GR DEVEL.

7. 172.02. Independent Research. (0-3) SS1, SS2. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Litt, Baumrind: Independent research experience. GR DEVEL.

8. 173A-B-C. Orthognathic Surgery Conference. (1-1-1) F, W, Sp. Prerequisite: Enrollment in postdoctoral orthognathic or pediatric dentistry programs or consent of instructor. Lecture 1 hour.

9. Litt: Postdoctoral students in orthodontics, prosthodontics, and oral and maxillofacial surgery will participate in evaluating and planning treatment for patients with facial and occlusal deformities requiring combined multidisciplinary therapy. Periodic review and presentation of previously treated patients will be included. GR DEVEL.

10. 174. Biomechanics & Tooth Movement. (2) W, SS1, SS2. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Lecture 2 hours.

11. Yoshihawa: Fundamental concepts of force systems will be presented. Included are equilibrium, force equivalency, and free-body analysis. Concepts will be related to orthodontic tooth movement, appliance design, and biological response to force application. GR DEVEL.

12. 174.01. Periodontics & Orthodontics. (1-2) F, Sp. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Lecture 1-2 hours.

13. Boyd: Current literature in periodontics and orthodontics is reviewed and discussed. Case presentations involving treatment between the two specialties are discussed and evaluated by students and faculty. Emphasis is placed on the advances in preventive procedures and their impact on orthodontic practice. GR DEVEL.

14. 174.02. Orthodontic Techniques. (1) SS1, SS2. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry programs or consent of instructor. Lecture 1 hour.

15. Nielsen: A lecture and participation course designed to familiarize the postgraduate student with orthodontic appliances, their fabrication, and adjustment. GR DEVEL.

16. 179.05A-B-C-D-E. Ortho General Interaction. (1-1-1-1-1) F, W, Sp, SS1, SS2. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry programs or consent of instructor. Clinic 3 hours.


19. Boyd and Staff: Third- and fourth-year dental students will participate in weekly one-hour discussions of clinical aspects of orthodontic therapy using patient records as a basis of discussion. GR DEVEL.

Orthopaedic Surgery

First-Year Coordinated Instruction—Medicine 131A-B-C. Lecture-demonstrations and section work devoted to the supervised examination of patients.

Core Clerkship—Surgery 110 and 111 include seven to eight orthopaedic lectures, case presentations, and outpatient clinic assignments. Students are given instruction in methods of examination of patients with musculoskeletal disorders with emphasis on diagnosis and principles of treatment.
140.01A-B-C-D. Clin Clikshp—UC-SFGH-SFGH ER-VA. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111. Must be a senior. W. Murray, Bovill, Maurer

Students, assigned to inpatient and outpatient services, receive instruction and experience in examination and treatment of patients. Assistance in surgery and in use of treatment modalities is required. Clinical demonstrations, seminars, and conferences form the basis for didactic instruction. ORTHO SURG

140.02. Off-Campus Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111. W. Murray

Orthopaedic surgery clinical clerkships are offered in off-campus hospitals approved by the chairperson of the department and the dean. ORTHO SURG

140.03. Rehabilitation Medicine—RDMC & VA. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 or Pediatrics 110. Specht, Carpendale

Course will provide knowledge and skills in electrodiagnosis, neurologic rehabilitation, spinal cord injury, closed head trauma, the rheumatoid patient, orthopaedic rehabilitation, hazards of bed rest, and acute and chronic low back pain. ORTHO SURG

150.01. Research in Orthopaedic Surgery. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111 and permission of instructor. W. Murray

Research project under direction of member of the faculty. ORTHO SURG

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

Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. Lecture, individualized instruction, and clinical experience may also be included. ORTHO SURG

401. Orthopaedic Pathology. (1) F, W, Sp. Prerequisite: Third- and fourth-year residents. UC J. Johnston

A lecture series covering tumors and infections of the musculoskeletal system, illustrated by microscopic slides and photographs of gross specimens. ORTHO SURG

402. Musculoskeletal System Physiol. (1) F, W, Sp. UC Haaglund

Seminars cover connective tissue metabolism, muscle, bone, and joint physiology, preoperative and postoperative management of patients with wound infections, microbiology, and surgical principles. ORTHO SURG


Course includes lectures by students and faculty on gross and functional anatomy, laboratory dissections of cadaver material and demonstrations of surgical approaches. ORTHO SURG


Seminars are student presentations of selected orthopaedic surgery subjects featuring historical review complete with bibliography. They are moderated by an assigned faculty member. ORTHO SURG


Seminars are held in rotation at each of these hospitals with patients from all three hospitals attending. They include literature review and demonstrations related to surgical approaches, anatomical dissections, diagnosis and treatment. ORTHO SURG

413. Orthopaedic Medical Staff Conf. (1) Su, F, W, Sp. UC W. Murray

Clinical instruction in the care and management of orthopaedic problems, rheumatoid arthritis, and allied diseases. Cases are presented by residents to attending staff. ORTHO SURG


Seminars include presentation of problem cases by residents for consideration of diagnosis, treatment, and discussion by the attending staff. ORTHO SURG

408. Orthopaedic Surgical Conference. (1) Su, F, W, Sp. SFGH Bovill

Selected problems are illustrated by cases treated or under treatment. Cases are presented by the resident staff and discussed by members of the attending staff. ORTHO SURG


Conference with emphasis on children's problems in which residents make case presentations of inpatients for review and consideration of diagnosis and therapeutic plan. ORTHO SURG

411. Orthopaedic Surgical Conference. (1) Su, F, W, Sp. VA Maurer

Conference includes review of admissions and discharges of hospitalized patients by the attending and consulting staffs. Cases are presented by the residents. ORTHO SURG


Seminars are held in rotation at each of these hospitals with patients from all three hospitals attending. They include literature review and demonstrations related to surgical approaches, anatomical dissections, diagnosis and treatment. ORTHO SURG

415. Orthopaedic Medical Staff Conf. (1) Su, F, W, Sp. UC W. Murray

Residents prepare and present case histories of inpatients and selected outpatients. Course includes discussion on diagnostic procedures, indications for surgery, immediate postoperative follow-up, and problem cases. ORTHO SURG


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Residents are responsible for patient care in the wards and outpatient clinics including history-taking, physical examinations, laboratory tests, elective surgery, fracture treatment, plaster techniques, and consultations. ORTHO SURG

451. Clinical Pediatric Orthopaedics (1 1/2
per week) Su, F, W, Sp. C L. Larsen,
CHMC Debenham, SSF Ashley

Residents are responsible for patient care in the wards and outpatient clinics including history-taking, physical examinations, laboratory tests, elective surgery, fracture treatment, plaster techniques and consultations. ORTHO SURG

452. Traumatic & Adult Orthopaedics
(1 1/2 per week) Su, F, W, Sp. SPGH Bovill,
SM Jensen, VA Maurer, H Slabaugh

Residents are responsible for patient care in the wards and outpatient clinics including history-taking, physical examinations, laboratory tests, elective surgery, fracture treatment, plaster techniques, and consultations. ORTHO SURG

453. Clinical Orthopaedics (1 1/2 per week)
Su, F, W, Sp. Chief resident. UC W. Murray

Under faculty supervision, the chief resident organizes care and referral of staff patients; supervises a weekly follow-up clinic; administers the teaching-bed fund; independently performs operative procedures in selected cases; advises interns, residents, and fourth-year medical students; participates in para-medical teaching. ORTHO SURG

455. Clinical Sports Medicine (1) Su, F,
W, Sp. J. Glick and Staff

Clinical instruction in the care and management of orthopaedic problems in athletic injuries. Course consists of clinical practice under supervision as well as didactic lectures every third week. ORTHO SURG

490. Clinical Orthopaedics—SPGH (1 1/2 per
week) Su, F, W, Sp. SPGH Bovill

Interns rotate through orthopaedic wards and follow-up clinics. They are responsible for patient care under the direction of the attending staff, including history-taking, physical examinations, X-ray conferences, and consultations. ORTHO SURG

Otolaryngology

First-Year Coordinated Instruction—
Medicine 131A-B-C. Lecture-demonstrations and section work devoted to the supervised examination of patients.

Core Clerkship—Surgery 110 and 111 include lectures and case demonstrations on the examination and diagnosis of otolaryngological diseases, particularly those related to trauma and infection. Instruction is given in the examination and diagnosis of ward and clinic patients with otolaryngological surgical diseases.

140.01A. Adv Otolaryngology Clerkship
(1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and Surgery 110. Boles

A practical course in general otolaryngology including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered. OTOLARYN

140.01B. Adv Otolaryngology Clerkship
—VA (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and Surgery 110. J. Ross

A practical course in general otolaryngology including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered. OTOLARYN

140.01C. Adv Otolaryngology Clerkship—
SPGH (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and Surgery 110. Boles

A practical course in general otolaryngology including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered. OTOLARYN

140.01D. Adv Otolaryngology Clerkship—L (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and Surgery 110. R. Wong

A practical course in general otolaryngology including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered. OTOLARYN

Staff

A practical course in general otolaryngology including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered. OTOLARYN

140.02. Off-Campus Clerkship. (1 1/2 per

Clinical clerkships in off-campus hospitals approved by the chairperson of the department and the dean. OTOLARYN

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

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

199. Laboratory Project. (1-5) F, W, Sp. Pre-
requisite: Consent of instructor. Merzenich

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. OTOLARYN

R. Schindler
A laboratory course conducted in the ear, nose, and throat pathology laboratory. All resident staff members are required to familiarize themselves thoroughly with the microscopic anatomy of the temporal bone under formal staff instruction. OTOLARYN

412. Tumor Board. (1) Su, F, W, Sp. VJ. Ross
Tumor cases are presented for diagnosis and recommendations for treatment. OTOLARYN

413. Audiology Conference. (1) Su, F, W, Sp. VJ. J. Ross
Combined Audiology and Otolaryngology Staff Conference where all patients evaluated for hearing problems are presented, and diagnosis and treatment recommendations are made. OTOLARYN

Residents, under supervision, are responsible for patient care in the wards and outpatient clinics including history-taking, physical examination, laboratory tests, preoperative and postoperative care, minor surgery, audiology, vestibular testing, and consultations. Senior resident has certain administrative, teaching, and clinical responsibilities. OTOLARYN

A study of the techniques of endoscopy and some practical laboratory study including cadaver work. OTOLARYN

490. Clinical Otolaryngology--SF GH. (1½ per week) Su, F, W, Sp. Wildes
Interns, 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 assignments in the Ophthalmology Service. OTOLARYN

Parasitology

135. Medical Parasitology. (3) W. Lecture 2 hours. Lab demonstration 2 hours.
Heyneman and Staff
An introduction to the protozoa, helminths, and arthropods that parasitize man. Parasite ecology and disease epidemiology, clinical and diagnostic aspects of parasite diseases and their treatment are considered in lecture and laboratory. Emphasis in the laboratory is on demonstration. EPID INTL. HLTH

Pathology

101. General & Systemic Pathology. (4) F. Prerequisite: Substantive courses in anatomy, biochemistry, physiology, pathology, microbiology (or concurrent enrollment), concurrent enrollment in Medicine 132A. If in doubt as to adequacy of preparation, consult the instructor. Lecture 3 hours. Lab 2 hours.
Friend, Margaretten and Staff
Mechanisms and language of disease are discussed, with emphasis on cell injury, inflammation, infectious agents, repair, regeneration, hemodynamic derangements, neoplasia. Recent advances and classical concepts of diseases as they affect the heart and blood vessels, lungs, gastrointestinal tract are presented. PATHOLOGY

102. Systemic Pathology. (3) W. Prerequisite: Pathology 101. Lecture 3 hours. Lab 2 hours.
Margaretten, 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, skir
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skin. Emphasis will be on correlation of functional and morphologic characteristics of diseases of organ systems. PATHOLOGY

103. Systemic Pathology. (3) Sp. Prerequisite: Pathology 102. Lecture 3 hours. Lab 2 hours.

Margaretten, M. Warnock and Staff
Recent advances and clinical concepts of diseases as they affect the following organ systems are presented: reproductive systems, skeletal system, hematopoietic system, and lymph nodes. Emphasis will be on correlation of functional and morphologic characteristics of diseases of organ systems. PATHOLOGY

126. General Pathology. (5) § F Prerequisite: Substantive courses in biochemistry, physiology, histology, microbiology (first quarter, concurrent) or an introduction to immunology. If in doubt as to adequacy of preparation, consult the instructor. Lecture 3 hours. Lab 6 hours. Biava and Staff
Mechanisms and language of disease are discussed, with emphasis on the dynamic nature of fundamental disease processes: cell injury, immunopathology, inflammation, responses to infectious agents, repair, regeneration, hemodynamic derangements, genetic disorders, disturbances of cell growth, and neoplasia. PATHOLOGY

135. General Pathology. (3) F Prerequisite: Substantive courses in biochemistry, physiology, histology, microbiology (first quarter, concurrent) or an introduction to immunology. If in doubt as to adequacy of preparation, consult the instructor. Lecture 3 hours.

Biava and Staff
This course is identical to the lecture portion of Pathology 126. PATHOLOGY

Performance of one to two autopsies. Emphasis will be on review of normal anatomy and histology and systematic observations and descriptions of pathologic material. Objective of the course is to provide a better understanding of clinical pathologic correlations. PATHOLOGY

150.02. Off-Campus Pathology Clerkship. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Pathology 101 and 102. Smuckler
Clinical clerkships in off-campus hospitals approved by the chairperson of the department and the dean. PATHOLOGY

150.03. Pathology Clerkship—Sigul. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Pathology 102 and consent of instructor.

McKay, Margaretten, Howes
Students prepare surgical specimens, perform autopsies under supervision, and participate in teaching conferences. PATHOLOGY

150.04. Pathology Clerkship—PUCVA. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Surgery 110. Consent of instructor. Staff
Students work closely with the faculty and house staff in the performance of autopsies and in the diegnostic workup of surgical specimens. They actively participate in departmental conferences and seminars. Opportunity provided for development of specific areas of investigation. PATHOLOGY

150.05. Research. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Consent of instructor and chairperson of the department. Staff
A research project under the direction of a member of the faculty. PATHOLOGY

150.06. Surgical Pathology—VMC. (1 1/2 per week) F, W, Sp. Prerequisite: Pathology 102 and consent of instructor.

H. M. Price, Bezmalinovic
Clerkship is designed to acquaint students with available techniques of tissue analysis, from light microscopic to micromolecular levels, and their application in diagnosis and surgical care. Experience includes postmortem examination, review of surgical biopsies and frozen sections, electron microscopy. PATHOLOGY

170.01. Clinical Cytology. (3) Sp. Prerequisite: Anatomy 102, Pathology 101 and 102. E. King, E. Hill
Lectures on basic fundamentals of cytology, normal cells, malignant cells, abnormal non-malignant cells, collection, and preparation methods. Microscopic examination of specimens and correlation of cellular and tissue pathology with colposcopic and clinical findings on examination of the patient. PATHOLOGY

170.02. Renal Biopsy Conference. (1/2) F, W, Sp. Prerequisite: Pathology 101. Lecture 1 1/2 hours. Staff
Study of clinical and pathologic aspects of current cases of renal disease. New material is presented each quarter during an academic year; therefore, course may be repeated for credit. PATHOLOGY

Presentation of selected current cases seen in the hospital pathology laboratory. Discussion of pathologic findings, and correlation with clinical and radiologic findings and treatment. PATHOLOGY

170.05. Neuropathology. (2) W. Prerequisite: Pathology 102. Third- or fourth-year standing. Lecture and seminar 2 hours.

J. J. Townsend
Emphasis is placed on clinicopathological correlation of neurologic diseases by means of study of gross and microscopic material and participation in conferences. PATHOLOGY

170.08. Studies in Pathology. (1-5) Su, F, W, Sp. Prerequisite: Consent of instructor and chairperson of the department. Staff
Students in pathology at other institutions with the approval of the chairperson of the department. PATHOLOGY
180.01. General Pathology. (3) E Prerequisite: Anatomy 118. Lecture 3 hours.

Biola and Staff

This course is identical to the lecture portion of Pathology 126. Elective in the dental hygiene curriculum. PATHOLOGY

198. Supervised Study. (1-5) § F, W, Sp. 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. PATHOLOGY

199. Laboratory Project. (1-5) § F, W, Sp. Prerequisite: Consent of instructor. Staff

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. PATHOLOGY

209. Applied Pathology. (3) § W. Prerequisite: Microbiology 126A-B and Pathology 126 or equivalents. J. Greenspan

Weekly seminars are designed to provide students with an understanding of the basic principles of pathology. Emphasis is placed on research; students will critically review current literature in the field, under faculty supervision. PATHOLOGY

215. Laboratory Rotation. (3) § F, W, Sp. Prerequisite: Consent of instructor. Lab 9 hours. R. Stern

A laboratory rotation course, to familiarize students with various approaches to experimental pathology and research in the basic medical sciences, particularly in relationship to human disease processes. Intended primarily for new graduate students. PATHOLOGY

220. Experimental Pathology Seminar. (2) § F, W, Sp. Prerequisite: Permission of the graduate adviser of the department. Lecture 1 hour. Seminar 1 hour. R. Stern

Presentation of research by students and seminar in pathology and disease mechanisms. Basic and clinical sciences faculty discuss current research in disease processes. Readings assigned. Formulation of testable hypothesis and discussion of experimental design led by student leader each session. PATHOLOGY


Students and faculty review literature and discuss current concepts and experiments in connective tissue research. Included are role of structural proteins, such as collagen and elastin in pathology; cell matrix interactions in developmental biology and morphogenesis. PATHOLOGY


PATHOLOGY

296. Experimental Models for Human Disease. (3) § Sp. Lecture 3 hours. R. Stern

The course covers experimental models for various human disease processes. A different organ system will be surveyed each year. Lectures from the basic and clinical sciences will discuss current research. The course will emphasize techniques of problem solving. The final examination will be a mock grant proposal. PATHOLOGY

298. Thesis. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff

For graduate students engaged in writing the thesis for the master's degree. PATHOLOGY

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

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

301. Teaching Practicum. (3) F, W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 2 hours.

Warnock, Margaret

Practice in teaching pathology under faculty supervision. Students supervise laboratory work, conduct conferences, and assist in preparing and grading examinations. Responsibilities are assigned according to the individual's stage of development. PATHOLOGY

400. Pathology Lab Med Seminar. (1) F, W, Sp. Interns and residents. Prerequisite: Medicine 110 and Surgery 110 or consent of instructor. Seminar 1 hour.

Staff

Recent developments in diagnosis and research in pathology and laboratory medicine are discussed by faculty and guest speakers. PATHOLOGY

401. Special Topics Seminar. (Units to be arranged) Su, F, W, Sp. Interns and residents.

Staff

Seminars focusing upon the pathology of specific organ systems are conducted by specialists. Emphasis is on the correlation between clinical manifestations of the disease and pathologic findings. PATHOLOGY


Staff

Students, under supervision, pursue original investigation in pathology and allied subjects. Investigators review the literature, make observations, and correlate physiological with pathologic concepts. PATHOLOGY


SGH/ McKay, Margaret

Conference includes the collection of data and materials, summary of histories, and citation of pertinent literature by faculty. Residents participate in clinico-pathological conferences where emphasis is placed on correlation of clinical manifestations of disease with clinical laboratory and autopsy findings. PATHOLOGY
405. Dermatopathology. (2) F, W, Sp. Prerequisite: Pathology 101 or equivalent by consent of instructor. Lab 2 hours. Seminar 1 hour. Sagebiel
Survey of inflammatory and neoplastic skin diseases by study of histopathological changes and discussion with emphasis on clinical-pathological correlations. PATHOLOGY

450. Pathologic Anatomy. (5-10) Su, F, W, Sp. Required for interns; elective for residents. Staff
Theory and methodology of pathologic anatomy; interpretation and correlation of data, and study of literature. PATHOLOGY

455. Electron Microscopy Seminar. (1) W. Prerequisite: Medicine 110 and Surgery 110 and consent of instructor. Lecture 1 hour. Elective for interns and residents. Staff
Course covers basic electron microscopic techniques, indications for use of electron microscopy in pathologic diagnosis, and the specific ultrastructural features of normal and diseased tissue. Emphasis is placed on renal biopsy and tumor diagnosis. Documented attendance is required. PATHOLOGY

495. Pathologic Anatomy. (1½ per week) Su, F, W, Sp. Required for interns. Staff
Theory and methodology of pathologic anatomy; interpretation and correlation of data, and study of literature. PATHOLOGY

Pediatrics

100. Medical Genetics. (2) F. Lecture 2 hours. Golbus
Basic aspects of human genetics are presented in a context relevant to the diagnosis, treatment, and counseling of genetic disorders and congenital malformations. Emphasis is placed on the application of genetic knowledge to actual counseling problems. PEDIATRICS

Practical experience in the ward, newborn nursery, and outpatient clinics with emphasis on case assignments. Teaching and supervision by attending and resident staffs. Required seminars cover aspects of pediatrics, infectious diseases, and child psychiatry. PEDIATRICS

140.01. Advanced Pediatric Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Grumbach
Advanced clerkship including: Normal newborn and IC Nursery; OPD Acute Care Unit, Inpatient at UC, OPD at SFGH: Outpatient clinics at I, Inpatient and outpatient at K, Inpatient and outpatient at CHMC, Inpatient and outpatient at NRMC. PEDIATRICS

140.01A. Adv Outpt Pediatric Ckshp–UC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Panell, Bergman, S. Rowe
Students are assigned general pediatrics patients for assessment and treatment. Supervision will be given with respect to interviewing skills and clinical decision-making. Frequent use will be made of videotaped interviews and decision analysis techniques as teaching aids. PEDIATRICS

Students are assigned patients in the Children’s Health Center. They are supervised by attending and resident staff. Major part of the time is spent in the acute care clinic. Some subspecialty experience is available. Time is not assigned to ward patients. PEDIATRICS

Students are assigned patients under supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for discussion of patients. PEDIATRICS

140.01D. Outpt Pediatric Ckshp–CHMC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Gerdsen
Students are assigned patients. They are supervised by attending and resident staff. They attend conferences when their patients are being discussed. They rotate through a variety of specialty clinics as well as the General Medical Clinic and the Emergency Room. PEDIATRICS

140.01E. Adv Inpt Pediatric Ckshp–CHMC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Gerdsen
Students are assigned patients. They are supervised by attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences when their patients are being discussed, as well as all daily formal teaching conferences. PEDIATRICS

140.01F. Outpt Pediatric Ckshp–KP. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Shinefield
Students are assigned patients under supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for discussion of patients. PEDIATRICS

140.01G. Inpt Pediatric Ckshp–K. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Shinefield
Students are assigned patients under supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for discussion of patients. PEDIATRICS

140.01H. Outpatient Pediatric Clerkship—NRMC. (1½ per week) Su, F, W. Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Koenig

Students are assigned patients under supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for discussion of patients. PEDIATRICS

140.01I. Inpatient Pediatric Clerkship—NRMC. (1½ per week) Su, F, W. Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Koenig

Students are assigned patients under supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for discussion of patients. PEDIATRICS


Phibbs

Students are assigned patients under supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for discussion of patients. Students are on call every third night. PEDIATRICS

140.01K. Neonatal Intensive Care—SPGH.

(1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. D. F. Wong, Partridge

Care of the high-risk neonate in busy intermediate intensive care neonatal nursery. Direct clinical responsibilities in a four-week sub-internship. PEDIATRICS

140.02. Off-Campus Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Grumbach

Clinical clerkship in off-campus hospitals approved by the chairperson of the department and the dean. PEDIATRICS

140.03. Outpatient Pediatrics—VMC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. McCann

Experience caring for sick and well children with 27,000 patient visits/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. PEDIATRICS

140.04. Pediatric Cardiology. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Open to UCSF students only. S. J. Robinson

Experience in clinical evaluation of children with cardiac abnormalities is emphasized. Daily ward rounds on pediatric cardiology patients, attendance at designated cardiac surgical procedures, catheterization, weekly catheterization conference, extensive reading assignments, and daily attendance in private office setting are included. PEDIATRICS

140.05. Pediatric Private Practice. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Open to UCSF students only. L. P. Smith

Working experience with a pediatrician on the clinical faculty as the pediatrician sees patients in the office and in the hospital. Student may select time in small group, large group or subspecialty practice, or a combination of these. PEDIATRICS

140.06. Adolescent Medicine. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Gareis

Clinical clerkship in adolescent medicine with emphasis on outpatient clinical experience in a wide range of health problems of the adolescent. PEDIATRICS


Students learn to identify children with developmental disabilities and direct their remediation to allow for achievement of their greatest potential. Various settings are used in acquiring skills in developmental assessment. PEDIATRICS


Clinical experience in teaching hospital's busy pediatric clinic, working as member of health care team. Supervision from attending physicians with emphasis on developmental/behavioral approach to pediatric practice. Continuity of care is encouraged and opportunity exists to follow patients admitted to ward. PEDIATRICS


Supervised participation in clinical activities, both inpatient and outpatient, and all regularly scheduled conferences of the Child Neurology Division. Study of the developing nervous system and diseases of the nervous system affecting infants, children, and adolescents. PEDIATRICS


Students participate in outpatient clinic, and laboratory evaluation of blood and bone marrow specimens at UC, SPGH, and CHMC. Pursuit of special interests in the clinic or laboratory is encouraged. PEDIATRICS

140.11. Cardiology—CHMC. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Hirashino

Pa
Students participate in clinical experience including outpatient evaluation, instruction in the noninvasive methods of diagnosis, care of ward medical and surgical cardiac patients, cardiopulmonary laboratory, and cardiovascular conferences. Emphasis is on the physiological principles of diagnosis and management. PEDIATRICS


Advanced clerkship on the general medical-surgical pediatric inpatient unit, with an emphasis on the behavioral/developmental approach to the hospitalized child. Family-centered care is emphasized through Care with Parent Program. Night call includes pediatric E.R. experience. PEDIATRICS

140.13. Endocrinology—UC (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Grumbach, S. L. Kaplan, F. Conte

Participation in the clinical and investigative aspects of endocrine and metabolic problems in children. Students spend time in the laboratory, on the wards, and in the clinics. PEDIATRICS

140.14. Juvenile Diabetes (1 1/2 per week) Su. Prerequisite: Medicine 110 and Pediatrics 110. Olney

Work under the direction of the instructor in Diabetic Camp, clinical and management aspects of diabetes. Students have an opportunity to participate in the operation of the camp program and treatment of many aspects of diabetes in children, adolescents, and young adults. PEDIATRICS

140.15. Oncology—UC (1 1/2 per week) F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Abelin, Zoger, K. Matthay

Participation in management of patients with solid tumors and leukemia; attendance at pediatric tumor board, ward rounds and outpatient clinic. Special emphasis on psychosocial problems; supervised reading and discussion with preceptor. PEDIATRICS

140.16. Pediatric Nephrology—UC (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. D. E. Potter

Introduction to general nephrology with children having nutritional problems, ESRD, and chronic renal failure. Post-transplant and dialysis consultations, new cases from the nursery; and cases requiring TPN. Research projects may be arranged with instructors. PEDIATRICS

140.17. Genetics—UC (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. C. Epstein, B. Hall

Evaluation and management of children and adults with hereditary (including cytogenetic) diseases, with particular emphasis on genetic counseling, patterns of human malformation, and the biochemical and genetic mechanisms involved in the pathogenesis and transmission of these conditions. PEDIATRICS


Students participate in patient care in close association with the house staff and clinical fellows, both in wards caring for sick children and in Newborn Intensive Care Unit, and in rounds and conferences conducted by senior staff. PEDIATRICS


Students participate in the comprehensive care of children. Experience with various illnesses is provided in appropriate specialty clinics. A wide variety of child care problems will be seen during visits to offices of senior pediatricians participating in the program. PEDIATRICS

140.21. Allergy—UC (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Frick

Participation in the activities of allergy-immunology trainees, including basic clinical immunology course, journal club, and seminars. PEDIATRICS

140.22. Outpatient Pediatrics—STM (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Cohn

Clinical experience in a busy community hospital Ambulatory Pediatric Clinic to prepare the student for daily patient encounters and responsibilities of pediatric or family practitioners. Teaching of patients in well and ill general pediatrics, well baby, preventive medicine, and pediatric subspecialties. PEDIATRICS

140.23. Neonatal Care—C (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Hira

Students participate in the care of infants in the intensive care nursery in close association with the house staff, fellows, and senior staff and in conferences conducted by senior staff. PEDIATRICS

140.24. Neonatal Care—MZ (1 1/2 per week) F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. R. Ballard

Experience in normal newborn and intensive care nurseries, according to student's interests and skills. Student participates in the care of transport infants, and on night call. PEDIATRICS
140.25. Devel & Behavioral Peds—MZ. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **Gorski and Staff**

Practical orientation and training for assessment and intervention of motor, cognitive, and social development of normal and high-risk children. Course includes didactic seminars in medical ethics, child psychiatry, neuromotor and developmental behavior. PEDIATRICS

140.26. Comprehensive Pediatric Care—KP (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **Schenb**

Within the country's largest prepaid health care program students will participate in office visits, urgent ambulatory care, health education, and inpatient care. They will work with staff and resident physicians, nurse practitioners and health educators. PEDIATRICS

140.27. Inpatient Pediatrics—KP (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **Schenb**

Schenb Students will perform histories and physical examinations on the pediatric ward under supervision of resident and attending physicians. They will attend resident conferences, see urgent clinic cases with resident and participate in outpatient clinic for discharged patients. PEDIATRICS

140.28. Adolescent Medicine—SCHH (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **R. C. Brown**

Students will attend regular conferences and participate in outpatient care of youth. An opportunity to visit community sites serving youth is included. PEDIATRICS

140.29. Inpatient Pediatrics—VMC (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110, Pediatrics 110, and consent of instructor. **Saving**

Students are assigned to a clinical team of house officers, faculty, and practitioners, and participate in the care of acutely ill hospitalized children. Students refine skills in history-taking, physical examination, case write-ups, and presentations, assist in special procedures and attend daily conferences. PEDIATRICS

140.30. Gastroenterology & Nutrition. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **Perman, Heyman, Thaler**

Students participate with fellows and staff in the diagnosis and treatment of gastrointestinal and hepatic diseases, and nutritional deficiencies in infants and children. They present patients on wards and in the outpatient clinic, assist with procedures, and attend specialty conferences. PEDIATRICS

140.31. Inpatient Pediatric Clnshp—VMC (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **Nilson, Saving**

Opportunity to develop and perfect skills in history-taking, physical examination, case write-ups, presentations, and procedures. Supervised problem-oriented learning/teaching environment fosters basic diagnostic and management skills. Conferences, case write-ups and presentation, night call with resident, and assigned reading. PEDIATRICS

150.02. Human Cytogenetics—UC (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **Grumbach, F. Conte**

Participation in human cytogenetic studies in children. Emphasis is on laboratory work with exposure to clinical problems and patients. PEDIATRICS

150.04. Research in Pediatrics—UC. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **Grumbach and Staff**

Student research projects under guidance of faculty members. Programs must be approved by instructors. Students may initiate or continue research programs under supervision of faculty members. PEDIATRICS

160.01. Clinical Correlation in Peds—UC. (2) F, W. **Grumbach**

Students prepare case presentations weekly from patients on the wards. Course correlates patients' problems with work in the required curriculum. Experience on the ward in the clinical setting. PEDIATRICS

170.01. Pediatrics Resource Overview. (1 1/2 per week) Su, F, W, Sp. Prerequisite: Consent of instructor. **L. Crain**

Weekly seminar and reading assignments correlated with observation of the spectrum of community and institutional services, diagnostic, preventive and program services for individuals with developmental disabilities included. PEDIATRICS

170.02. Primary School Health Educ. (1-2) F, W, Sp. Prerequisite: Consent of instructor. Attendance of initial orientation by the curriculum department of the San Francisco Unified School District, scheduled at the first session of the quarter. Field work 8 hours, plus class participation. Topic paper optional with consent of instructor for 2 units. **L. Crain, Ernst**

Health professions students are oriented to working with Primary Grades Health Curriculum Program, and participate, under guidance of qualified instructors, in implementing PGGP for K-3 grade children in local schools. PEDIATRICS


Selected topics in human biochemical genetics, emphasizing research and concepts of current interest. Course is directed toward physicians, postdoctoral fellows, medical students, and genetic counselors. A seminar format will be used, with directed reading and discussion. PEDIATRICS

180.01A-B-C-D. Adolescent Development. (2) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 2 hours. **Irwin**
A four-quarter course covering the physiologic, psychologic, cognitive and social development of adolescence. Also included is material on sexuality, nutrition, family interaction, cultural differences, legal issues, school behavior, substance abuse and psychiatric problems, and common medical problems. 

PEDIATRICS

198. Supervised Study. (1-5) F, W. Sp. Prerequisites: Consent of instructor.

Grumbach and Staff

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

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

Grumbach

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. PEDIATRICS


Grumbach

Conferences include house staff preparation and presentation of patient case histories with reference to the literature, laboratory work, and special studies. Faculty members and consultants from other departments as well as other universities discuss recent developments in their respective fields. PEDIATRICS


Gooding

Conferences include review and discussion of recent X-ray studies of pediatric cases in the wards and outpatient service. PEDIATRICS


Grumbach

Seminar includes review and discussion of selected cases of unusual interest, reports on special topics with review of recent literature, and clinicopathological conferences on pediatric cases. PEDIATRICS

450. Clinical Pediatrics-UC. (1½ per week)


Grumbach

Residents, under supervision, are responsible for patient care in the wards and outpatient clinic including history-taking, physical examination, laboratory tests, diagnosis and treatment. In addition, the chief resident has certain administrative, teaching, and clinical responsibilities. PEDIATRICS

451. Clinical Pediatrics-SFGH. (1½ per week)


M. Grossman

Residents, under supervision, are responsible for patient care in the wards, communicable disease section, and outpatient clinic including history-taking, physical examination, laboratory tests, diagnosis and treatment. Emphasis is on diagnosis and management of infection and trauma, and pediatric emergencies. PEDIATRICS

462. Clinical Primary Care. (1½ per week)


Grumbach, Dower

Interns in the Primary Care Track of Pediatrics are responsible for patient care in a multispecialty primary care clinic. Other rotations include those common to the regular Pediatrics Internship Program as well as related clinical services such as Dermatology, Otolaryngology. PEDIATRICS

463. Clinical Primary Care. (1½ per week)


Grumbach, Dower

Residents in the Primary Care Track of Pediatrics are responsible for patient care in a multispecialty primary care clinic. Other rotations include those common to the regular Pediatrics Residency Program as well as related clinical services such as Dermatology, Otolaryngology. PEDIATRICS

490. Clinical Pediatrics-SFGH. (1½ per week)


M. Grossman

Interns rotate through newborn nursery, pediatric wards and clinic, communicable diseases ward, and emergency room. They are responsible for the care of patients, under the direction of the attending staff, including history-taking, physical examination, laboratory tests, and consultation. PEDIATRICS

495. Clinical Pediatrics. (1½ per week)


Grumbach

Interns, under supervision, are responsible for patient care in the wards and outpatient clinic including history-taking, physical examination, laboratory tests, diagnosis and treatment. PEDIATRICS

Pedodontics


Morris

Introduction to the examination of the child patient, treatment planning, prevention instruction, dietary analysis and counseling, and the performance of operative procedures. Proper management of the child patient will be stressed. GR DEVEL


Morris and Staff

Course is broken up into two components: Mondays, Tuesdays, and Wednesdays will be spent at the Dental Annex Clinic; Thursdays and Fridays at the Mobile Dental Clinic in Stockton. GR DEVEL

130B-C. Clinical Pedodontics. (1, 2) W, Sp. Prerequisite: Operative Dentistry 125A-B-C. Lecture 1 hour W; 2 hours Sp.

Leggott

Lecture course presenting dental procedures unique to, or modified to meet, the needs of the child. Examination, diagnosis, treatment planning, pain control and management, restorative procedures, preventive
orthodontics, diet analysis, and carries control are stressed. GR DEVEL

170.01A-B-C-D. Clinical Pedodontics. (0-5, 0-5, 0-5, 0-5) F, W, Sp. SS. Clinic variable. Staff

Clinical experience in comprehensive care of children with congenital or hereditary anomalies. Management of rampant caries and techniques of instruction in home care and carries control. Current techniques in patient management and pain alleviation. Recognition and treatment of developing malocclusion. GR DEVEL.

170.02A-B-C. Clinical Pedodontics. (0-5, 0-5, 0-5) F, W, Sp. Prerequisite: Pedodontics 170.01A-B-C-D. Clinic 0-15 hours. B. A. Smith

Continuation of Pedodontics 170.01A-B-C-D. GR DEVEL.

171.01A-B-C-D-E. Pedodontic Seminar. (0-3, 0-3, 0-3, 0-3, 0-3) F, W, Sp, SS1, SS2. Seminar 1-3 hours. B. A. Smith and Staff

A variety of pedodontic patients is discussed through documented case history presentations. Current and classical literature in pedodontics and allied specialty areas is reviewed. GR DEVEL.

173. Community Outreach. (0-6) SS. Prerequisite: Pedodontics 170.02A-B-C. Clinic variable. M. Morris and Staff

Students provide dental care for a non-English speaking migrant population, utilizing facilities of the mobile clinic. GR DEVEL.


A variety of pediatric patients is reviewed through documented case history presentations. Current and classical literature in pedodontics and allied specialty areas is reviewed. GR DEVEL.

176. Pediatric General Anesthesia. (0-3) F CHMC 90 hours. K. Schroeder and Staff

An introductory course in general anesthesia to familiarize the student with general anesthesia: the attendant problems and risks, the agents used, and methods of delivery. Clinical experience under close supervision. GR DEVEL.

177. Pediatric Hospital Dentistry. (0-3) Su, F, W, Sp. Staff

Experience is provided in history-taking, admitting, laboratory tests, order, and chart keeping. Students are assigned to an interdisciplinary health care team and provide dental care for patients on the ward or in the operating room, using a general anesthesia. GR DEVEL.

178. Advanced Clerkship. (0-18) Sp. Prerequisite: Postdoctoral standing and arrangement through head, postdoctoral pedodontists, to observe the practice management of the offices. Lecture and lab variable. B. A. Smith and Staff

Course provides varied clinical experiences, skills, and competence. This advanced clerkship is available for second-year students in pedodontics who have successfully completed the requirements considered core to the program. GR DEVEL.

180.01B-C. Pedodontic Seminar. (1-1) W, Sp. Prerequisite: Completion of third-year pedodontic lecture series and approval of the dean. Lecture 1 hour. B. A. Smith

Documented discussions on occlusion, mixed dentition analysis, malocclusions, missing incisors and premolars, hypoplasias, anomalies, injuries, and oral manifestations of systemic disease. Designed for students considering pedodontics as a specialty. Counseling is provided for postdoctoral education. GR DEVEL.

189.01. Clinical Practice. (0-9) F, W, Sp. Prerequisite: Pedodontics 130B-C and completion of clinical pedodontics and all third-year clinical and didactic courses in operative dentistry. Approval of Clinic Review Committee. Clinic variable. M. Morris and Staff

Course provides additional clinical experience in pedodontics. GR DEVEL.

Periodontology


Treatment of a variety of periodontal diseases under the direct supervision of faculty. STOMATOLOGY.

119. Intro to Periodontal Therapy. (½) Sp. Clinic five 4-hour periods. Taggart

Introduction to the techniques of supragingival scaling and root planing. STOMATOLOGY.

120. Introduction to Periodontics. (2) F Lecture 2 hours. Armitage

Introduction to the recognition and diagnosis of periodontal diseases. The pathogenesis of periodontal diseases is discussed from clinical, histopathological, and biochemical points of view. STOMATOLOGY.

131. Surgical Periodontics. (1) F Prerequisite: Periodontology 121. Lecture 1 hour. Taggart

The demonstration and rationale of surgical treatment of periodontal lesions. STOMATOLOGY.

150. Oral Hygiene. (1) Sp. Lecture 1 hour. Taggart

Introduction to the oral hygiene problems of the periodontal patient and the means and methods available to the dentist and auxiliaries to motivate the patient to self-care. STOMATOLOGY.

160. Periodontal Therapy. (2) F Prerequisite: Periodontology 150. Lecture 2 hours. Armitage
Classification of periodontal diseases and methods of their prevention. Principles of pathology are correlated with therapeutic procedures. A faculty panel discusses the role of the hygienist in dental practice. STOMATOLOGY

161. Advanced Periodontal Therapy. (1) W. Prerequisite: Periodontology 160. Lecture 1 hour.
   Taggart
   The demonstration and rationale of surgical treatment of periodontal lesions. The role of the dental hygienist in dental practice, especially related to prevention, recognition, and aid in treatment of periodontal diseases. STOMATOLOGY

   Dienstein (F, W), Ryder (Sp)
   Dynamics of inflammation and its role in the periodontal tissues. STOMATOLOGY

   Shibata
   Clinical procedures in periodontal therapy. STOMATOLOGY

172. Examination & Treatment Planning. (1) F. Prerequisite: Enrollment in postgraduate specialty program or consent of instructor.
   Parr
   Lectures on examination and treatment planning. STOMATOLOGY

172.01. Hospital Anesthesiology. (6) SS. Prerequisite: Consent of instructor. Seminar 10 hours. Clinic 24 hours.
   C. Chang
   Practical course in operating room anesthesia. Instruction in hospital administration, physical and preanesthesia evaluation of the patient, monitoring of vital signs, administration of intravenous psychosedation, general anesthesia, and handling of resultant medical emergencies. Clinical instruction is supplemented by seminars. STOMATOLOGY

172.02. Hospital Periodontics. (2) F, W, Sp. Prerequisite: Periodontology 171A-B-C. Lecture 4 hours given in alternate weeks.
   Shibata
   Clinical periodontics integrated into the regular medical and rehabilitative activities of MZ. Course provides patients with quality dental care, appreciation for preventive dentistry and concept of total health care. Students are exposed to various medical conditions. STOMATOLOGY

173.01. Periodontal Therapy. (2) SS. Prerequisite: Periodontology 171A-B-C. Clinic 60 hours.
   Shibata
   Clinical procedures in periodontal therapy. This course is an enlargement of earlier clinical experience. STOMATOLOGY

   Shibata
   Advanced clinical procedures in periodontal therapy. STOMATOLOGY

173.03. Periodontal Therapy. (2) SS. Prerequisite: Periodontology 173.02. Clinic and seminar 60 hours.
   Shibata, E. Green and Parr
   Advanced surgical techniques in management of periodontal lesions. STOMATOLOGY

   Parr
   A seminar to discuss and evaluate the problems common to the specialties of orthodontics and periodontics. STOMATOLOGY

   Shibata
   Students present and discuss management of their cases that are either planned for treatment or currently under treatment. They are expected to defend their treatment plan and therapeutic procedure based on relevant literature and clinical experience. STOMATOLOGY

   Shibata
   Students present and discuss management of their cases that are either planned for treatment or currently under treatment. They will be responsible for defending their treatment plan and therapeutic procedures based on relevant literature and clinical experience. STOMATOLOGY

176. Original Investigation. (1-5) F, W, Sp. Prerequisite: Enrollment in postgraduate specialty program or consent of instructor. Lab 3-15 hours.
   Armitage
   Research. STOMATOLOGY

   Raust
   Study in depth with literature review and seminar discussions on surgical techniques used to treat lesions involving the hard and soft tissue of the periodontium. STOMATOLOGY

180. Periodontics in General Practice. (1) W. Lecture 1 hour.
   Nathan
   Implementation of the skills and knowledge of periodontics in the private practice environment. STOMATOLOGY

   Abe
   Study in depth, with literature review and seminar discussions of areas of periodontology having major clinical significance. STOMATOLOGY

180.03. Periodontal Surgical Techniques. (1) F, W. Prerequisite: Periodontology 131. Lecture 1 hour.
   Shibata
   Surgical techniques are presented which may be useful to treat lesions occurring in the
Pharmaceutical Chemistry

120. Principles of Pharm Chem. (3) § E
Prerequisite: Chemistry 113. Lecture 3
hours. Ortiz de Montellano

A study of physicochemical and biological factors which contribute to drug action; in vivo and in vitro biotransformations of drugs and related organic compounds. PHARM CHEM

121. Chem & Biolog Correlation. (2) W
Prerequisite: Pharmaceutical Chemistry 120 and concurrent enrollment 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. Emphasis on steroids, hormones, and drugs for metabolic disorders. PHARM CHEM

122. Autonom & Cardiovasc Drugs. (3)
Sp. Prerequisite: Pharmaceutical Chemistry 120. Lecture 3 hours.
Brochmann-Hanssen

A systematic survey of the chemical features of synthetic drugs, including correlations between chemical structure and biological activity. Emphasis on drugs affecting the autonomic nervous and cardiovascular systems as well as renal function. PHARM CHEM

132. Drugs Acting on CNS. (3) E Prereq-
quisite: Pharmaceutical Chemistry 120. Lecture 3
hours. Wang

A systematic survey of the chemical features of synthetic drugs, including correlations between chemical structure and biological activity. Emphasis on drugs affecting the central nervous system. PHARM CHEM

134. Chemotherapeutic Drugs. (2) W
Prerequisite: Pharmaceutical Chemistry 120 and concurrent enrollment in Pharmacology 134. Lecture 2 hours.

Oppeheimer

A systematic survey of the chemical features of synthetic drugs, including correlations between chemical structure and biological activity. Emphasis on anti-infective and anti-neoplastic drugs. PHARM CHEM

152. Radionuclides in Biol/Med/Pharm.
(2) W. Prerequisite: Consent of instructor. Lecture 2 hours.

Peng

Discussion on radionuclides in frequent use in biology and medicine including radionuclides used as pharmaceuticals, with emphasis on dosage form design, quality control, clinical application, and other related aspects. PHARM CHEM

157. Bioanalytical Theory & Technique.
(3) W. Lecture 2 hours. Lab 3 hours. Sadee, E. Lin

Analytical theory and techniques for determining drugs and metabolites in biological fluids. PHARM CHEM

160. Fundamentals in Radioactivity. (2)
§ F, W. Lecture 2 hours. Perez-Mendez

This course will treat the principles of physical decay in radionuclides, characteristics of nuclear emissions, interaction with matter, and related aspects in radioactivity. PHARM CHEM

162. Radioisotope Imaging. (1) Sp. Pre-
requisite: Pharmaceutical Chemistry 152 or consent of instructor. Lecture 1 hour.

D. Price

This course will treat the theory and methodology in the application of radionuclides to organ imaging in nuclear medicine. PHARM CHEM

Prerequisite: Consent of instructor and adviser.

Staff

Group studies of selected topics in pharmaceutical chemistry. PHARM CHEM


Staff

Library research and directed reading under supervision of a member of the faculty with
the approval of the chairperson of the department. PHARM CHEM

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. PHARM CHEM

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

201. Adv Survey of Medicinal Chem. (2) § F. Prerequisite: Consent of instructor. Lecture 2 hours. **Sadee, Castagnoli**
Basic principles of medicinal chemistry and a survey of the relationships between structure and biological action for major drug classes. PHARM CHEM

202. Macromolecular Structure. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours. **Kuntz, Langridge**
A review of protein and nucleic acid structures. Emphasizes the general principles which govern secondary and tertiary structure, with an introduction to the current approaches to this problem for proteins and transfer RNA. PHARM CHEM

203. Drug Metabolism. (2-3) § Sp. Prerequisite: Consent of instructor. Lecture 2-3 hours. **Sadie**
Study of the in vivo and in vitro biotransformation of foreign compounds with particular emphasis on drugs. When possible, detailed chemical and biochemical mechanisms are considered. PHARM CHEM

208. Advanced Survey of Pharmaceutics. (2) § F or W. Lecture 2 hours. **Schwarz**
Basic principles underlying the area of pharmaceutics directed at the needs of graduate students with limited familiarity with pharmaceutical sciences. PHARM CHEM

212A-B-C. Computer Prog-Biological Models. (1-1-1) § F, W, Sp. Prerequisite: Consent of instructor. Lab 1 hour. Conference 1 hour. **Upton**
A three-quarter sequence of courses in computer programming with emphasis on applications to biological modeling. PHARM CHEM

213. Kinetics of Drug Absorp & Disposn. (3) § F. Prerequisite: Chemistry 115. Calculus background is recommended. Lecture 2 hours. Lab 3 hours. **Oie**
A basic study of the concentration-time course of drugs and their metabolites, methods of pharmacokinetic analysis, and the design of dosage regimen. Laboratory emphasizes the application of electronic calculators and analog computers. PHARM CHEM

214. Adv Kinetics of Absorp & Disposn. (3) § Sp. Prerequisite: Pharmaceutical Chemistry 215 and Biochemistry 202 or equivalent. Lecture 2 hours. Lab 3 hours. **Tozer**
Advanced consideration of pharmacokinetics including multicompartement models, assessment of intrinsic absorption and disposition parameters, and correlation of pharmacological response with the concentration-time course of a drug. Laboratory will include analog and digital computer methods. PHARM CHEM

217A-B-C. Advanced Pharmaceutics. (2-3, 2-3, 2-3) § F, W, Sp. Prerequisite: Physical chemistry or consent of instructor. Lecture 2-3 hours. **Szoka**
Advanced topics in pharmaceutics. PHARM CHEM

Selected topics on enzyme mechanisms. General survey of enzyme catalysis, general acid-base catalysis, protein conformation, strain and conformational change. Covalent intermediates in enzyme catalysis. The role of cofactors in enzyme catalysis. Phosphate transfer reactions. PHARM CHEM

220. Research Conf in Pharmaceutics. (1) § F, W, Sp. Lecture 1 hour. Staff
A program involving the presentation of core material in pharmaceutical chemistry in the pharmaceutics 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 Department of Pharmaceutical Chemistry. Lecture 1 hour. **Kenyon**
A series of weekly research conferences in medicinal chemistry given by visiting lecturers, faculty, and advanced graduate students. PHARM CHEM

222. Physical Chemistry Seminar. (1) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour. **Kuntz and Staff**
Topics of current research interest in physical and biophysical chemistry. PHARM CHEM

230A. Spectroscopy. (3) § Sp. Prerequisite: Chemistry 162 or equivalent. Lecture 3 hours. **Sheldar**
The theory and application of molecular electronic and vibrational spectroscopy; optical rotatory dispersion and circular dichroism. PHARM CHEM

230B. Spectroscopy. (3) § W or Sp. Prerequisite: Chemistry 162 recommended. Lecture 3 hours. **T. James**
The theory and application of nuclear magnetic resonance and electron-spin resonance; mass spectrometry. PHARM CHEM

230C. Spectroscopy. (1) § W. Lab 3 hours. **T. James**
Laboratory work in nuclear magnetic resonance and electron-spin resonance; mass spectrometry. PHARM CHEM

231. Spectroscopy. (1-4) § F. Prerequisite: Pharmaceutical Chemistry 230B. Lecture 1-4 hours. Staff

Selected topics in spectroscopy and related areas. PHARM CHEM

235. Mass Spectrometry in Life Sci. (2) § F. Prerequisite: Consent of instructor. Lecture 2 hours. Burlingame

Elucidation of molecular structure, characterizations 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 3-6 hours. Peng

Theory and techniques related to the synthesis of isotopically labeled organic compounds. Course may be repeated for credit. PHARM CHEM

242. Radiotracer Methodology. (1) § W. Prerequisite: Pharmaceutical Chemistry 152 or 160, or consent of instructor. Lecture 1 hour. Peng, Benet

Discussions on the theory and principles in the use of radionuclides as tracers in biological systems. Emphasis is on the design of experiments and data evaluation. PHARM CHEM


PHARM CHEM

260. Computer Graphics. (3) § Sp. Prerequisite: Experience in programming and consent of instructor. Lecture 2 hours. Lab 3 hours. Langridge, Ferrin

Application of interactive three-dimensional computer graphics to modeling complex biological systems, particularly large molecules and their interactions. Elements of hardware and a detailed discussion of software. Demonstration and self-scheduled projects using the computer graphics laboratory. PHARM CHEM

266. Research Planning Conference. (1) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Staff

Discussion and practice in research problem formation 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) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff

For graduate students engaged in writing the thesis for the master's degree. PHARM CHEM

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

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

Pharmacology

100A-B. Medical Pharmacology. (3, 5) W, Sp. Prerequisite: Biochemistry 100A-B and Physiology 120 and 125 or equivalents. Lecture 3 hours W; 5 hours Sp. Katzung (W), Trevor (Sp)

A systematic presentation of pharmacologic agents based on drug group classification. Major emphasis is on clinically significant aspects of therapeutic effects, toxic effects, and evaluation of drugs. PHARMACOL

121. Pharmacology. (1) W. Prerequisite: Concurrent enrollment in Pharmaceutical Chemistry 121. Lecture 1 hour. Burkhalter

Systematic survey of action and uses of drugs with emphasis on steroids, hormones, and drugs for metabolic disorders. PHARMACOL

125. Pharmacology & Toxicology. (4) Sp. Prerequisite: Biochemistry 120A-B and Physiology 120 and 125. Lecture 3 hours. Conference 2 hours. Burkhalter, Hondegem

Systematic survey of action and uses of drugs acting on autonomic nervous and cardiovascular systems and the kidneys. PHARMACOL

126B-C. Dental Pharmacology. (2, 4) § W, Sp. Prerequisite: Physiology 110. Lecture 2 hours W; 3 hours Sp. Lab 3 hours Sp. Meyers

Objective of the course is to acquaint dental and dental hygiene students with the fundamentals of pharmacology. Various classes of drugs are examined in regard to actions, absorption, fate, excretion, and toxicity. Agents useful in dentistry are emphasized. PHARMACOL

130. Clinical Toxicology. (2) Sp. Prerequisite: Pharmacology 125 and 136. Lecture 2 hours. Burkhalter, Correia

The occurrence, mode of action, recognition, and treatment of poisoning by environmental chemicals and therapeutic agents. PHARMACOL

134. Pharmacology. (1) W. Prerequisite: Concurrent enrollment in Pharmaceutical Chemistry 134. Lecture 1 hour. Trevor, Taber, Barriere

Systematic survey of action and uses of anti-infective and anti-neoplastic drugs. PHARMACOL

136. Pharmacology & Toxicology. (4) F. Prerequisite: Pharmacology 125. Lecture 3 hours. Conference 2 hours. Burkhalter, E. Way

Systematic survey of action and uses of drugs acting on the central nervous system. PHARMACOL
150.01. Pharmacology Research. (1½ per week) Su, F, W, Sp. Prerequisite: Consent of instructor. Lecture and lab to be arranged.

Students perform individual research in a field of their choice under the guidance and supervision of a member of the faculty. PHARMACOL.

Staff

170. Group Studies. (1-4) F, W, Sp. Prerequisite: Consent of instructor. Staff

Group studies of selected topics in pharmacology. PHARMACOL.

172. Toxicology. (1) W. Conference 2 hours.

F. Meyers, Hodge, Hine

Course provides information on the clinical and social problems associated with selected environmental agents. PHARMACOL.


Burkhauer

A seminar course covering various aspects of pharmacology and toxicology. PHARMACOL.


Staff

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


Staff

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. PHARMACOL.

206A-B-C. General Pharmacology. (3-3-3) F or W or Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Staff

Lecture-conference dealing with fundamental aspects of interactions between chemical compounds and the components of biological systems. Mechanisms of drug action at molecular, biochemical, membrane, tissue, and organ levels of the cardiovascular, muscular, and central nervous systems are considered. PHARMACOL.

208. Oxidative Drug Metabolism. (2) § F 2 hours.

Correia, Ortiz de Montellano

The biochemical, regulatory, and chemical aspects of mixed function oxygenases with particular emphasis on cytochrome P-450. PHARMACOL.

209. Molecular Mechanisms. (3) § F, W or Sp. Prerequisite: Consent of instructor.

Kun

Advanced biochemical experimentation and theories concerning the mechanism of action of biologically active substances on a macromolecular level. The content of the course, beyond certain theoretical material, varies with each participant and consists of guided experiments in novel subjects. PHARMACOL.

210A-B-C. Introductory Toxicology. (1-2, 1-2, 1-2) § F or W or Sp. Prerequisite: Consent of instructor. Lecture 1-2 hours. Sequence of course may be given in any quarter. Course must be taken in sequential order.

F. Meyers, Hodge, Correia, Hine

Introductory toxicology divided into the following three components: toxicity testing procedures, environmental toxicology, selected topics, and clinical toxicology; current developments. PHARMACOL.

211A-B-C. Advanced Toxicology. (1-2, 1-2, 1-2) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1-2 hours.

Correia, Hodge, F. Meyers, Hine

A detailed examination of the field of toxicology as it relates to agricultural, environmental, forensic, industrial, military, regulatory and therapeutic problems. Emphasis is placed on mechanism of action of toxic substances. Current advances and classical concepts of toxicology are presented. PHARMACOL.


Staff

Seminars to discuss present methods and problems in current teaching and research in pharmacology and toxicology. PHARMACOL.


Staff

PHARMACOL.

292. Physiological Techniques. (3) § F, W or Sp. Prerequisite: Survey course in pharmacology or consent of instructor. Lab 9 hours.

Kun

Principles and applications of physiological techniques used in the study of drugs. Emphasis is on the study of cardiovascular and autonomic agents. PHARMACOL.

296. Lab Techniques in Toxicology. (2) § F, W or Sp. Lab 6 hours.

F. Meyers, Hodge, Hine

Principles and applications of experimental techniques in the evaluation of the toxicologic hazards of drugs and environmental chemicals, techniques for testing acute and chronic toxicity, skin irritation and sensitization, mutagenesis and carcinogenesis will be covered. PHARMACOL.

298. Thesis. (0) §§ F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser.

Staff

For graduate students engaged in writing the thesis for the master's degree. PHARMACOL.

299. Dissertation. (0) §§ F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser.

Staff

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


Staff

Opportunity is provided to participate in a formalized way in the teaching of pharmacology under the direction of the faculty. PHARMACOL.
Pharmacy

111. Non-Prescription Products. (1) F
Conference 2 hours.
Yee
Evaluation and comparison of non-prescription medications and appliances. Discussion on their patterns of use in the community is included. Emphasis is on verbal communications. PHARMACY

112. Non-Prescription Products. (1) W
Prerequisite: Pharmacy 111. Conference 2 hours.
Yee
Continuation of Pharmacy 111. PHARMACY

113. Non-Prescription Products. (1) Sp
Prerequisite: Pharmacy 112. Conference 2 hours.
Yee
Continuation of Pharmacy 112. PHARMACY

114. Biopharmaceutics & Phys Pharm. (3) F
Prerequisite: Concurrent enrollment in Chemistry 115. Lecture 3 hours. Hoener
A study of the physical, chemical, and biological factors which interact and dominate the design of dosage forms as drug delivery systems, including an introduction to the analysis of clinical data. PHARMACY

115. Biopharmaceutics & Phys Pharm. (4) W
Prerequisite: Pharmacy 114 and concurrent enrollment in Chemistry 116. Lecture 3 hours. Lab 3 hours.
C. Hunt, Shell, R. Day
Continuation of Pharmacy 114 with the addition of laboratory preparation of basic drug delivery systems. PHARMACY

116. Biopharmaceutics & Phys Pharm. (4) Sp
Prerequisite: Pharmacy 115. Lecture 3 hours. Lab 3 hours.
Guy, Hoener, J. Hunt, R. Gibson, Benet
Continuation of Pharmacy 115. PHARMACY

127. Biopharmaceutics & Dispensing. (4)
Prerequisite: Pharmacy 116 and Pharmacy Administration 112. Lecture 2 hours. Lab 6 hours.
R. Day, C. Jackson, Hoener

Continuation of Pharmacy 116 with the addition of training in the professional and dispensing aspects of pharmacy. PHARMACY

128. Pharmacokinetics. (3½) W
Prerequisite: Pharmacy 116. Lecture 3 hours. Conference 1-2 hours.
Ölie, Tozer
Course covers the pharmacokinetic basis of variability in the therapeutic, pharmacologic, and toxicologic effects of drugs. PHARMACY

129. Pharmacokinetics. (3½) Sp
Prerequisite: Pharmacy 128. Lecture 3 hours. Conference 1-2 hours.
Giacomini, Ölie
Continuation of Pharmacy 128. PHARMACY

151. Community Health Education. (2)
Sp. Lecture and discussion 2 hours. Participation in at least four community health education programs.
R. Gibson
Course is designed to train students for participation in community health programs dealing with drug abuse education and other drug-related areas, such as poison prevention, venereal disease, and birth control. Course may be repeated for credit. PHARMACY

152. Special Topics in Pharmaceutics. (2)
Sp. Prerequisite: Pharmacy 116 or concurrent enrollment. Lecture 2 hours.
Szoka
An intermediate course offering an opportunity to explore, in greater depth, special drug delivery systems and some fundamental relationships involved in their design or action. PHARMACY

153. Seminar Preparation Techniques. (1)
Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Conference 1 hour.
Sadée, Tozer
Preparation, presentation and evaluation of research seminars. PHARMACY

155. External Drug Products. (3-4) W
Prerequisite: Pharmacy 127. Lecture 2-3 hours. Lab 3-6 hours.
Blake, C. Jackson
Discussion and laboratory exercises on the formulation of products for external use, including drugs and cosmetics. The course deals with the properties and ingredients of such products. PHARMACY

156. Parenteral Products. (3) F, W
Prerequisite: Pharmacy 127. Lecture 2 hours. Lab 3 hours.
C. Jackson, Blake
Introduction to the formulation and technology of parenteral preparations. Laboratory includes participation in hospital activities in which parenterals are made and administered. PHARMACY

164. Veterinary Products. (3) Sp
Prerequisite: Microbiology 120, 127, Pathology 135, Pharmacology 136 and Pharmacy 116. Lecture 3 hours.
Spinelli
Course is designed to familiarize the student with common ailments of domestic animals and livestock, products used for the prevention and treatment of such diseases, the interrelationship of pharmacist, veterinarian and animal owner, and legal limitations on veterinary product dispensing. PHARMACY

165. Pharmaceutical Technology. (3) F
Prerequisite: Pharmacy 116. Lecture 1 hour. Lab 6 hours.
Blake, Gibson, Cooper
An introduction to the technology of liquid and semisolid pharmaceuticals. Special emphasis is given to the problems encountered and the materials used in pharmaceutical manufacturing. PHARMACY

166. Pharmaceutical Technology. (3) W
Prerequisite: Pharmacy 165. Lecture 1 hour. Lab 6 hours.
Blake, Gibson, Cooper
An introduction to the technology of solid dosage forms, especially tablets and capsules. Emphasis is placed on problems encountered in preparation of this type of medication. PHARMACY

167. Pharmaceutical Technology. (3) Sp
Prerequisite: Pharmacy 166. Lecture 1 hour. Lab 6 hours.
Blake, Gibson, Cooper
An advanced study of the relationship of
the art and science of pharmaceutical tech-
nology to solid dosage forms. PHARMACY
168. Clinical Pharmacokinetics—UC. (2)
F, W, Sp. Prerequisite: Fourth-year standing
or consent of instructor. Reports and con-
ferences 6 hours. Enrollment limited.

Discussion and review of the literature in
the clinical application of pharmacokinetic
principles in drug therapy. PHARMACY
168.02. Clinical Pharmacokinetics—UCI.
(2) F, W, Sp. Prerequisite: Fourth-year standing
or consent of instructor. Reports and seminars
3 hours. Enrollment limited. Shimomura

Discussion and review of the literature on
the clinical application of pharmacokinetic
principles in drug therapy. PHARMACY
170. Group Studies. (1-4) F, W, Sp. Prereq-
usite: Consent of instructor.

Staff

Group studies of selected topics in phar-
macy. PHARMACY
170.05. Clinical Drug Investigations. (2)
Sp. Prerequisite: Introductory statistics rec-
commended. Lecture 2 hours.

R. L. Williams, Bostrom

Discussion of methods for generating data
about drug risk and efficacy in clinical in-
vestigations, with emphasis on the randomized
clinical trials. Statistical methods used in mod-
ern clinical trials will be discussed. PHARMACY
170.06. Molec & Cell Biology in Drug
Devel. (2) Sp. Prerequisite: Consent of in-
structor. Lecture 2 hours.

Szoka

Introduction to the role of cellular and
molecular biology in developing new drugs,
hormones or therapeutic agents. PHARMACY
Prerequisite: First-year standing. Lab 2 hours.
Seminar 1 hour. Enrollment limited. Len

Aspects of communication which focus on
skills pertinent to contemporary pharmacy
settings. Discussion of principles of com-
munication and practice of specific techniques
in simulated practice situations. PHARMACY
170.09. Percutaneous Absorption. (2) W.
Prerequisite: First-year standing. Lecture 2
hours. Wester, Malbach, P. Elias, Guy

An elective course which presents material
dealing with the penetration of drugs and
other chemicals across the skin. PHARMACY

Staff

Library research and directed reading under
supervision of a member of the faculty with
the approval of the chairperson of the de-
partment. PHARMACY

Staff

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

Pharmacy Administration

111. Pharmacy Laws. (2) F. Lecture 2
hours.

J. R. Nielsen

Introduction to court systems and admin-
istration boards and their relationship to the
health professions. Discussion of basic prin-
ciples of criminal law, negligence, and business
law with particular emphasis on the legal
relationship and responsibility of the prac-
titioner to the patient. PHARMACY
112. Pharmacy Laws. (2) W. Lecture 2
hours.

J. R. Nielsen

A detailed examination of federal and state
drug, cosmetic, and narcotic laws; their pro-
mulgation, enforcement, and effect upon the
practice of pharmacy. Course involves some
administrative work. PHARMACY
150. Marketing. (4) W. Lecture 4 hours.

Staff

An analysis of the marketing functions that
facilitate the flow of pharmaceutical products
from production to consumption, and of the
decision-making processes of marketing in-
stitutions. Emphasis is given to the environ-
mental factors affecting marketing decisions.
PHARMACY
154. Community Pharmacy Manage-
ment. (4) Sp. Prerequisite: Basic economics
or consent of instructor. Lecture 4 hours.
Staff

Principles of management, specially di-
tected toward developing familiarity with current
problems peculiar to community pharmacy operation. Emphasis is given to
factors in locating, organizing, operating,
and adapting a pharmacy. PHARMACY
155. Accounting. (3) F. Lecture 1 hour. Dis-
cussion 2 hours.
Staff

Consideration of the fundamental concepts
of accounting and its applied uses, with special
emphasis on the accounting requirements of the
community pharmacy. Problem cases and
demonstrations are presented. PHARMACY
160. Hlth Prof Family & Business Law.
(2) Sp. Lecture 2 hours.

J. R. Nielsen

A survey of laws relating to landlord-tenant
dissolution, property division, support pay-
ments, probate and decedent's estates, with
particular emphasis on how pharmacists may
expect their practice to be affected by these
laws, and some practical preventive legal
techniques. PHARMACY
170. Group Studies. (1-4) F, W, Sp. Prereq-
usite: Consent of instructor.
Staff

Group studies of selected topics in phar-
macy administration. PHARMACY
180A-B-C. Legal Problems in Health Care.
(2-2-2) F, W, Sp. Prerequisite: Third-year
standing and consent of instructor.
J. R. Nielsen

Selected problems with directed readings
and library research on current legal (statutory
and case law) issues affecting the delivery of pharmacy services. Discussion and paper. PHARMACY


Staff

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

Physical Therapy

100. Gross Anatomy. (6) Su. Prerequisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 3 hours. Lab 9 hours.

DeWeese

A fundamental building block of physical therapy; this course presents the gross structure of the human body studied through regional and systemic correlation by means of dissection, demonstration, surface and cross-sectional anatomy. PHYS THER

101. Pathology. (3) F. Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 3 hours.

Biava

Mechanisms and language of diseases are discussed with emphasis on the dynamic nature of fundamental disease processes such as cell injury, immunopathology, inflammation, response to infectious agents, repair and regeneration, hemodynamic arrangements, genetic disorders, disturbances of cell growth and neoplasia. PHYS THER

102. Physiology. (3) F. Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 3 hours.

DeWeese

Presentation of in-depth physiological function of cardiovascular, renal and respiratory systems which have become special emphases in acute and chronic rehabilitation. Introduction to the endocrine and digestive systems with particular focus on interaction with the neuromusculoskeletal systems. PHYS THER

103. Neuroanatomy. (2) Su. Prerequisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 1 hour. Lab 3 hours. Garouette

The structural organization and function of the central nervous system are presented through lecture and laboratory study of models, wet and dry demonstration. Special emphasis accorded to clinical functional correlations. PHYS THER

104A. Physical Therapy Procedures. (3)

Su. Prerequisite: Completion of course prerequisites for admission to the University and the Curriculum in Physical Therapy. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 2 hours. Lab 3 hours. M. Snyder, Asturias

This course begins a four-quarter series presenting theory, skills and application of physical therapy procedures in patient care. Course addresses surface anatomy, kinesiology, tests and measurements for evaluation of normal integrity of neuromusculoskeletal function. PHYS THER

104B. Physical Therapy Procedures. (5)

F. Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 2 hours. Lab 8 hours. M. Snyder, Asturias

Continuation of Physical Therapy 104A. Theory, physics and indications and contraindications of physical therapy procedures. Electro-, hydro-, cryo- and thermotherapies, massage and exercise. Problem-solving approach to treatment planning and evaluation of neuromusculoskeletal pathologies. PHYS THER

104C. Physical Therapy Procedures. (5)

W. Prerequisite: Completion of course work in summer term and fall quarter. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 2 hours. Lab 8 hours. M. Snyder, Asturias

Continuation of Physical Therapy 104B. Advanced neuromuscular, physiological, biomechanical principles related to musculoskeletal dysfunction. Theory, physiological and functional ramifications of pathology, patient evaluation and treatment of dysfunction of the cardiopulmonary, vascular and integumentary systems. PHYS THER

104D. Physical Therapy Procedures. (3)

Sp. Prerequisite: Completion of course work in summer term, fall and winter quarters. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 1 hour. Lab 8 hours. M. Snyder, Asturias

Continuation of Physical Therapy 104C. Basic neurophysiological and neuroanatomical principles of normal and pathological motor function. Various neurophysiological therapeutic concepts of evaluation and treatment planning, and implementation of treatment for the patient with neurological dysfunction. Projects and field work are included. PHYS THER

105. Physical Med & Rehabilitation. (3)

F. Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 3 hours. Berrol

Course presents the philosophy of rehabilitation and medical management of chronic diseases and the multiple handicapped person. Particular emphasis is on brain damage, sp

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106A. Specialty Med Mgmt of Disease. (3) F. Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 3 hours. F. Schiller, S. Kaufman

Medical management of problems concerning specialties of pediatrics and neurology. In-depth presentation of the more common medical concerns which guide the specialists' decisions and establish the sound basis for teamwork treatment between these specialties and physical therapy. Patient presentation. PHYS THER

106B. Specialty Med Mgmt of Disease. (7) W. Prerequisite: Completion of course work in summer term and fall quarter. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 7 hours. Hoaglund, Roost, D. Adams

Medical management of problems concerning the specialties of internal medicine, orthopaedics and psychiatry. In-depth presentation of the more common medical and surgical concerns which guide the specialists' decisions and establish the sound basis for teamwork treatment between these specialties and physical therapy. PHYS THER

107. Neuromuscular Physiology. (2) F. Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 2 hours. Garoute

A study of the physiology of striated muscle and peripheral nerve in relationship to controlling mechanisms within the central nervous system. PHYS THER

108. Basic Medical Procedures. (2) Sp. Prerequisite: Completion of course work in summer term, fall and winter quarters. Lecture 1 hour. Lab 2 hours. M. Snyder

Presentation of basic procedures for total and emergency care of the patient. Emphasis on interpretations of vital signs, temporary emergency intervention, sterile techniques and therapist-patient interaction concerned with confidential matters. PHYS THER

109A. Prof Practice & Administration. (4) W. Prerequisite: Completion of course work in summer term and fall quarter. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 4 hours. DeWeese

Study of attitudes and obligations of the profession of physical therapy presented through lecture and seminars. Emphasis on ethics, medicolegal aspects of treatment and records, methods of communication and research. Students will participate in seminar presentation and begin a library research project. PHYS THER

109B. Prof Practice & Administration. (4) Sp. Prerequisite: Completion of course work in summer term and fall quarter. Open only to students enrolled in the Curriculum; or consent of program director. Lecture 4 hours. DeWeese

Study of attitudes and obligations of the profession of physical therapy presented through lecture and seminars. Emphasis on growth of the profession and organization and administration of a clinical physical therapy department. Students will complete library research project begun in Physical Therapy 109A. PHYS THER

170.02. Congenital Defects. (2) W. Prerequisite: Gross anatomy course and consent of instructor. Monie

This elective course is designed to provide physical therapists with information on the more common human congenital defects. Environmental and genetic factors that produce malformations are considered and possible mechanisms discussed. ANATOMY

410A. Clinical Clerkship. (7) Sp. Prerequisite: Completion of course work in summer term, fall and winter quarters. M. Snyder

Students begin clinical clerkship in clinical facilities. Under close supervision, appropriate and indicated procedures of total patient treatment are performed. Gradually, full responsibility for a full patient load for particular facility is assumed. Students present in-services and write case reports. PHYS THER

410B. Clinical Clerkship. (15) Su. Prerequisite: Completion of course work in preceding summer term, fall, winter and spring quarters. Open only to students enrolled in the Curriculum; or consent of program director. M. Snyder

Course is required for and permitted to graduate students only. Students provide patient care under decreasing supervision in associated clinics. Students also submit case reports, present in-services and attend scheduled campus seminars. PHYS THER

Physiology

100. Organ System Physiology. (6) § W. Prerequisite: Anatomy 100 and 102, and concurrent enrollment in Biochemistry 100A-B, or consent of instructor. Lecture 4 hours. Lab 4 hours. Conference 2 hours. Conn, Goerke, Kellogg

Normal function of the cardiovascular, respiratory, renal, and gastrointestinal systems and the metabolic functions of the body as a whole are studied in lectures, conferences, laboratory exercises, demonstrations, and clinical illustrations. PHYSIOLOGY

101. Endocrinology & Gastroenterology. (5) § Sp. Prerequisite: Anatomy 100, Biochemistry 100A-B, Physiology 100, or consent of instructor. Lecture 5 hours. Lab 1 hour. Reid
The structure of the endocrine glands and the physiology of the endocrine and gastrointestinal systems, together with selected aspects of the pathology and pharmacology of these systems, are studied in lectures and laboratory. PHYSIOLOGY

110. Integrative & Nutritive Systems. (6) § Sp. Prerequisite: College-level biology, physics, and chemistry, or consent of instructor. Lecture 5 hours. Conference 3 hours. Staff

Introduction to organ systems with emphasis on nervous, endocrine, circulatory, respiratory, and alimentary function in vertebrates. Importance of organ systems for the success of multicellular forms serves as focus. Fundamental cell processes are also discussed, emphasizing differential function. PHYSIOLOGY

120. Mammalian Physiology. (2½) W. Prerequisite: Physiology 125 required for students in School of Pharmacy; may be taken separately by graduate students with consent of instructor only. Lecture 2 hours. Staff

J. A. Williams, Goldfine, Monroe

Study of the integrative systems of the mammalian organism, particularly the gastrointestinal and endocrine systems. PHYSIOLOGY

125. Mammalian Physiology. (6) F. Prerequisite: Consent of instructor. Lecture 4 hours. Lab 4 hours. Conference 2 hours. Staff

Mines, Goerke, Kellogg

Physiology of the human cardiovascular, respiratory and renal systems is stressed, with special attention to developing problem solving skills using the material. PHYSIOLOGY

126. Neuroscience for Pharmacy. (4) W. Prerequisite: Physiology 125 or consent of instructor. Lecture 3 hours. Lab 1½ hours. Conference 1 hour. Staff

Korenbrok, A. Kelly, Copenhagen, R. Snyder and Staff

Course is designed primarily for students in the School of Pharmacy. The course will present an integrated approach to the physiological operations of the nervous system and the morphological or anatomical substrates in which these occur. PHYSIOLOGY

150.01. Research in Physiology. (1½ per week) Su, F, W. Sp. Prerequisite: Consent of instructor: Lecture and lab to be arranged. Staff

Individual research in endocrinology, respiratory physiology, neurophysiology, cardiovascular physiology, cell physiology, or other areas offered by individual staff members. PHYSIOLOGY

198. Supervised Study. (1-5) § F, W, Sp. Prerequisite: Consent of instructor. Staff

Ganong and Staff

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

199. Laboratory Project. (1-5) § F, W, Sp. Prerequisite: Consent of instructor. Staff

Ganong and Staff

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. PHYSIOLOGY

200. Directed Reading Seminar. (0) § F, W. Sp. Prerequisite: Consent of instructor. Staff

Ganong and Staff

Directed reading organized in a seminar or tutorial fashion to review aspects of physiology under supervision of a member of the faculty. PHYSIOLOGY

204. Topics in Physiology. (1) § W. Prerequisite: A minimum of six units of introductory physiology. Seminar 1 hour. Staff

Rothman

This seminar discusses selected topics in cellular and integrative physiology. Readings are drawn from primary and secondary sources. PHYSIOLOGY

206. Adv Kidney & Electrolyte Physiol. (2,3) § Sp. Prerequisite: Physiology 100 or 125 and consent of instructor. Lecture 2-3 hours. Offered in alternate years. Not offered 1984-85. Staff

C. Berry

Current theories regarding renal hemodynamics and regulation of whole body acid-base, electrolyte and fluid balance will be discussed. Emphasis will be placed on the transport mechanisms operating across renal tubular membranes. PHYSIOLOGY

210. Hormone Secretion Mechanisms. (2) § Sp. Prerequisite: Physiology 101 or consent of instructor. Lecture 2 hours. Offered in alternate years. Offered 1984-85. Staff

J. A. Williams

Discussion of current literature pertaining to the mechanism of hormone synthesis, packaging, and release. PHYSIOLOGY

211. Membrane Physiology. (2) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Staff

Widdicombe and Staff

Introduction to mechanisms by which ions and small molecules cross biological membranes in response to both physical forces and cellular metabolism. PHYSIOLOGY

221. Cardiovasc-Renal-Pulmonary Sys. (2) § F, W. Sp. Prerequisite: Physiology 100 or equivalent. Lecture 2 hours. Staff

Course includes critical reviews of topics of current importance, presentation of unsolved problems of staff, and critical evaluation of published articles by the group. The total program is presented over six successive quarters. PHYSIOLOGY

222. Endocrinology Seminar. (1) § F, W. Sp. Seminar 1 hour. Course may be repeated for credit. Staff

Ganong

Guest lectures alternating with reports of research in progress by members of the graduate group in endocrinology. A different topic of endocrinological interest is the subject
of guest presentations each quarter. PHYSIOLOGY

223. Physiology Research Seminar. (1) § E.W. Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Course may be repeated for credit.

Ganong

Seminar presentations by guest lecturers, alternating with discussion by Physiology staff members of their current research. Each quarter a different topic of physiological interest is the subject of guest presentations. PHYSIOLOGY

250. Research. (1-8) § F.W. Sp. Prerequisite: Consent of instructor. Lab variable.

Ganong and Staff

PHYSIOLOGY

298. Thesis. (0) § Su, F.W. Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Ganong and Staff

For graduate students engaged in writing the thesis for the master's degree. PHYSIOLOGY

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

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

300. Teaching Practicum. (0) § F, W, Sp. Prerequisite: Previous training in physiology and consent of instructor. Lecture and lab variable. Ganong and Staff

Practice in teaching physiology under faculty supervision. Students supervise laboratory work, conduct conferences, deliver lectures, and assist in preparing and grading examinations. Responsibilities are assigned according to the individual's stage of development. PHYSIOLOGY

301. Scientific Writing. (0) § Su, W. Prerequisite: Consent of instructor. Seminar 4 hours.

Coleridge, Zeiger

A seminar designed to teach postdoctoral fellows and graduate students how to best put into words, tables and figures work done in the laboratory, and how to do so clearly, simply, precisely, convincingly, and briefly, so that others may understand. PHYSIOLOGY

302. Teaching Techniques. (0) § F. W. Prerequisite: Consent of instructor. Lecture 1½ hours. Enrollment limited. Staub, Comroe

A course in teaching techniques. Students present short lectures, and videotapes of these presentations are analyzed by self- and group criticism. PHYSIOLOGY

Preventive Dentistry and Community Health

199. Laboratory Project. (1-5) F.W. Sp. Prerequisite: Consent of instructor. Wycoff, Silverstein

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. DENT PUB HTH

Psychiatry

First-Year Coordinated Instruction—Medicine 315B. The communication skills and patient interviewing course provides the first opportunity for students to interview medical patients in small group settings, guided by an experienced clinician. Issues addressed include: How a professional interchange differs from a social one, and how one's identity as a physician emerges.

PGY I Courses—The Department of Psychiatry is currently developing new courses for PGY I residents. Please refer to the quarterly Schedule of Classes for a listing of those courses in the 400 series.

100A. Psychological Basis of Medicine. (2) F. Lecture 2 hours. Seminar 1 hour.

Horowitz, Marmor

Introduction to the basic psychological principles underlying response to the stress of illness and its treatment with emphasis on mental mechanisms, development, death and dying, and various types of doctor-patient relationships. PSYCHIATRY

100B. Illness Behavior. (1) W. Seminar 2 hours.

Brodky, F. Cohen

Introduction to psychological principles influencing health behaviors and the physician-patient relationship. Presentation of the social and cultural factors that affect patients' health and illness behavior when well, when they fear illness, when ill, during rehabilitation and after recovery. PSYCHIATRY

110. Psychiatry Core Clerkship. (1½ per week) Su, F, W. Prerequisite: Medicine 131A-B-C, Psychiatry 100A, 100B and 131A-B. Open to UCSF students only. Cooper

Four-week assignment to a psychiatric service at UC, SGH, VAMC, L, VAF or VMC. Students, under supervision, are responsible for patient evaluation and participation in treatment planning. They attend seminars related to clinical work, and make field visits to other types of psychiatric facilities. PSYCHIATRY


S. Purcell

Introduction to clinical psychiatry with particular emphasis upon knowledge important in general medical practice. Course format includes lectures, small group teaching, interviewing patients, syllabus reading, and the use of clinical videotapes and film. PSYCHIATRY

135. Psychiatric Aspects of Med Prac. (0) Su, F, W. Sp. Prerequisite: Satisfactory completion of the first and second years in the
School of Medicine as specified in the prerequisite for the 110 clerkships listed below. Clinical seminar 2 hours.

**140.01. Advanced Psychiatry Clerkship.** (1½ per week) Su, F, W, Sp. Prerequisite: Psychiatry 110 and consent of Department of Psychiatry.

**Boatman and Staff**

Participation, with supervision of attending and resident staff of the Department of Psychiatry, in psychiatric assessment, treatment and/or consultation with adult or child inpatients. Seminars, assigned reading and case presentation may be required. PSYCHIATRY

**140.02. Off-Campus Clerkship.** (1½ per week) Su, F, W, Sp. Prerequisite: Consent of Department of Psychiatry. **Boatman**

Clinical clerkship in off-campus hospitals, approved by the chairperson of the department and the dean. PSYCHIATRY

**140.04. Adv Psychiatry Clerkship—VAF & VMC.** (1½ per week) Su, F, W, Sp. Prerequisite: Psychiatry 110 and consent of Department of Psychiatry. **Zil**

Clinical clerkships based in a variety of community settings in Central California. Course includes working with patients and families and emphasizes preventive, rehabilitative, and consultative services, especially to underserved rural and minority populations. PSYCHIATRY

**140.05. Clinical Psychiatry.** (1½ per week) Su, F, W, Sp. Prerequisite: Consent of Department of Psychiatry. **Boatman and Staff**

Participation, under close supervision in accordance with students' level of experience and special interests, in clinical psychiatric treatment of adult or child inpatients or outpatients. PSYCHIATRY

**150.01. Psychiatric Research.** (½ per week) Su, F, W, Sp. Prerequisite: Consent of Department of Psychiatry. **Callaway and Staff**

Participation according to students' level of experience in experimental work in areas such as neurophysiology, operant conditioning, psychophysiology, immunology, and nonlexical communication. All work is under the close supervision of members of the faculty. PSYCHIATRY

**150.05. Human Sexuality.** (1½ per week) Su, W, Sp. Prerequisite: Psychiatry 180 and consent of Department of Psychiatry. **Gendel**

Effect of sex roles, self-esteem, attitudes and values of clinician on treatment of sexual problems. Case studies, role play, group discussion, film, art and music are used to develop skills in introductory sex counseling. Special readings assigned; project is optional. PSYCHIATRY

**160.01. Speech & Lang Psychopathology.** (2) F, W, Sp. Prerequisite: Consent of Department of Psychiatry. Lecture 1 hour. Lab 3 hours. **Ostwald**

A clinical course focusing on speech and language pathology. Students' eligibility depends on previous experience with psychiatric patients and interest in specific problems of communication. Patients with characteristic syndromes will be interviewed and suitable treatment procedures performed under supervision. PSYCHIATRY

**160.07. Outpatient Psychotherapy.** (2-7) Su, F, W, Sp. Prerequisite: Psychiatry 110 and consent of Department of Psychiatry. Lecture 2 hours. Lab 0-15 hours. **Amini**

Practical experience in psychotherapeutic work with outpatients to increase students' understanding of psychopathology, psychodynamics, and psychotherapeutics. Students are assigned patients under supervision of a member of the faculty. Assigned reading, seminars, and chart writing. PSYCHIATRY

**160.11. Psychotherapeutic Interview Tech.** (4-5) F, W, Sp. Prerequisite: Consent of Department of Psychiatry. Lecture 4-5 hours. **Ostwald**

Individual and group supervision of clinical work with patients. The focus is on developing rapport, obtaining relevant information, and establishing a satisfactory therapist-patient relationship. Supplementary reading may be assigned. PSYCHIATRY

**160.14. Health Aspects of Human Sex.** (2) F. Prerequisite: Consent of Department of Psychiatry and consent of instructor; Lecture 16 hours plus seminar 6 hours total given during the quarter. **Gendel**

A consideration of sexuality as an integral aspect of general health. Emphasis is on accuracy of information regarding the range of human sexual behavior, and the typical sexual concerns of patients. PSYCHIATRY

**160.17. Sexuality & Disability.** (1) Sp. Prerequisite: Psychiatry 180 and consent of Department of Psychiatry. Lecture 12 hours. Course is given over a weekend. **Gendel and Staff**

Course covers the role of sexuality in rehabilitation of the physically and mentally handicapped, and principles of sexual counseling of the handicapped. Lectures, films, seminar, and community resource people will be involved. PSYCHIATRY

**170.01. Intro to Study of Suicide.** (2) F. Prerequisite: Consent of Department of Psychiatry. Lecture 2 hours. **Motto**

Suicide is surveyed from a multidisciplinary approach in seminars led by persons working in the field. PSYCHIATRY

**170.03. Behavioral Specialist Pathway.** (1-6) F, W, Sp. Prerequisite: Psychiatry 110 and
Cooper

Students in the Behavioral Specialist Pathway elect individual or group study of a topic not included in other formal courses. Supervised reading, research, field work, and clinical assignments are given in accordance with the students' level of interest and experience. PSYCHIATRY

170.06. Human Sexuality Research. (2) Su, F, W, Sp. Prerequisite: Psychiatry 160.14 or 180, and consent of Department of Psychiatry. Lecture 1 hour. Lab 3 hours.

Gendel

Collaboration or directed research in various topics related to human sexuality. PSYCHIATRY

170.07. Social-Physical Deprivation. (2) § W. Prerequisite: Consent of Department of Psychiatry. Lecture 2 hours. H. Schlesinger

Compares and contrasts influences of cultural, physical, social, and sensory deprivation on cognitive and emotional development. Emphasis on social stigma and family response to handicapped child: nature of problems and treatment of handicapped groups, development and utilization of community resources. PSYCHIATRY

170.16. Self-Destructive Behavior. (1-3) § F, W, Sp. Prerequisite: Psychiatry 170.01 and consent of Department of Psychiatry. Lecture 1-3 hours. Lab as required. Gendel

Continuation of the study of mortality and morbidity resulting from self-destructive behavior. Subjects to be covered and the method of study are determined by the interests of the students. PSYCHIATRY


Course is a seminar for exploring and surveying current issues in psychiatry. Each week an assigned paper will be discussed by students, seminar leaders and an occasional guest discussant. Topics will include current research, new theories, social issues and clinical innovations. PSYCHIATRY

170.18. Psychotherapy Research. (3) Sp. Prerequisite: Course in statistics and consent of Department of Psychiatry. M. Horowitz

Participation in research activities at the Center for the Study of Neuroses. Lectures, laboratory, individual guidance to readings, and patient observation are included. PSYCHIATRY


Social, behavioral, and clinical aspects of human sexuality are covered in a series of lectures and seminar periods. Lectures present didactic material and seminars focus on clinical and ethical problems related to sex and medical practice. PSYCHIATRY

182. Transcultural Psychiatry. (1) § F. Prerequisite: Psychiatry 100A and 100B or equivalent psychiatry experience, and consent of Department of Psychiatry. Consent of instructor for graduate students. Seminar 1½ hours. Hartog

Seminars explore the field of transcultural psychiatry, ranging from entering the alien community, culture shock, and epidemiology, to folk healing and cross-cultural psychotherapy. Relevance to American urban and ethnic issues discussed. Examples, problems, methodology, and possibilities of research also presented. PSYCHIATRY

198. Supervised Study. (1-5) § F, W, Sp. Prerequisite: Consent of Department of Psychiatry. L. J. Epstein and Staff

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

199. Laboratory Project. (1-5) § F, W, Sp. Prerequisite: Consent of Department of Psychiatry. L. J. Epstein and Staff

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. PSYCHIATRY

200A-B-C-D-E-F-G-H-I. Mental Illness-Outpatient. (3-8 per section) § F, W, Sp. Prerequisite: Graduate standing in the Doctor of Mental Health Program. Other students may enroll with consent of instructor only. Lecture 1-3 hours. Lab 6-15 hours. J. Nichols

Supervised experience in diagnosis and treatment planning for psychiatric outpatients in community settings. Students are responsible for evaluations, psychotherapy, treatment planning, psychiatric and community consultation, and medical management. Instruction in all areas via outpatient meetings, rounds, case conferences and seminars. PSYCHIATRY

201A-B-C-D-E-F-G-H-I. Mental Illness-Children's Serv. (1-5 per section) § F, W, Sp. Prerequisite: Graduate standing in the Doctor of Mental Health Program. Other students may enroll with consent of instructor only. Lecture 0-2 hours. Lab 3-9 hours. McClure

Supervised experience in provision of psychiatric services for children. Course includes case conferences and seminar, diagnostic evaluations, treatment planning, ongoing therapy of children and their families, and consultation to community agencies, schools and pediatricians. PSYCHIATRY

202A-B-C. Mental Illness-Inpatient. (5-5-5) § F, W, Sp. Prerequisite: Graduate standing in the Doctor of Mental Health Program. Other students may enroll with consent of instructor only. Lecture 1½ hours. Lab 11 hours. Hetuwa

Under supervision, students assume responsibility for psychiatric patients on com-
community inpatient services. Course includes individual, group, family and milieu therapy, patient advocacy, community liaison and follow-up care, administrative and staff issues in patient management and related seminars. PSYCHIATRY

203A-B-C. Mental Hlth-Emer Serv. (3-3-3) § F, W, Sp. Prerequisite: Graduate standing in the Doctor of Mental Health Program. Other students may enroll with consent of instructor only. Lecture 1½ hours. Lab 4½ hours. 

Hewitt

Supervised experience in community mental health emergency services. Course includes crisis evaluation, disposition and treatment planning with community agencies, instruction in community mental health systems, health needs of minorities, crisis intervention, brief psychotherapy, use of psychopharmacological medications and related seminars. PSYCHIATRY

204A-B-C. Mental & Psychological Issues. (3-3-3) § F, W, Sp. Prerequisite: Graduate standing in the Doctor of Mental Health Program. Other students may enroll with consent of instructor. Seminar 3 hours.

B. Diamond

Theoretical exploration of psychiatric and psychological issues in medical care and biomedical issues in psychiatric care. Course includes lecture and discussion of selected readings in the field. To be taken concurrently with the 200 clinical series. PSYCHIATRY

205. Mental Hlth Law & Social Policy. (2) § F. Prerequisite: Fifth-year standing in the Doctor of Mental Health Program. Lecture 2 hours. 

B. Diamond

Legal aspects of mental health care reflecting social, political policies towards mentally ill. Discussion of controversial issues: confidentiality, responsibility of psychotherapist for patients' acts, dangerousness, involuntary hospitalization, right to treatment, informed consent, mental health ghettos, criminal responsibility, other selected topics. PSYCHIATRY

206. Current Issues Mental Hlth Lit. (1) § W, Sp. Prerequisite: Enrollment in the Doctor of Mental Health Program. Other students may enroll with consent of instructor. Seminar 1 hour. 

B. Diamond

Presentations of current articles of significant developments in mental health principles and practices. Emphasis will be on new and controversial issues. PSYCHIATRY

211. Theory of Mental Hlth Practice. (1-5) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1-5 hours. 

L. J. Epstein, Weinshein

Directed reading and small group seminars regarding models of understanding and intervention in emotional disturbance. PSYCHIATRY


Abern

Theoretical background for trainees in psychosocial diagnosis; individual and group therapy; family therapy; brief therapy and crisis intervention, cross-cultural therapy; work with systems and other disciplines. Emphasis on clinical social work with geriatric patients, the physically ill, and others. PSYCHIATRY

249. Special Studies. (1-5) § F, W, Sp. Prerequisite: Graduate standing in the Doctor of Mental Health Program. Other students may enroll with consent of instructor only. Lecture 0-2 hours. Lab 3-9 hours. 

B. Diamond

Students, with faculty approval, select particular areas of mental health field for advanced or intensive study. Areas chosen may be primarily clinical or nonclinical, but in most instances will combine clinical and nonclinical issues. PSYCHIATRY


R. S. Wallerstein

Members of the Department of Psychiatry make clinically centered presentations reflecting all areas of the department's work. Each topic involves a two-section sequence, with the second week consisting of formal discussion of the previously presented work from various viewpoints. PSYCHIATRY


Ostwald

Individual consultation with psychiatric residents and other advanced trainees concerning treatment and management problems. Diagnostic questions, indications for somatic and psychological interventions, the course of therapy, and research issues are emphasized. PSYCHIATRY

404. Theories of Personality. (1) F, W, E. Burke

Focus is on personality theories other than Freudian, such as Piaget, Skinner, and Rogers. Course includes an examination, study, and discussion of contemporary personality theories, their concepts, systematic application to the behavioral sciences, and research potentials. Parallel reading is required. PSYCHIATRY


Seminar presents techniques of assessing personality and intellectual functions in relation to psychodiagnostic evaluations and study of diagnosis with psychotherapy. Discussion of development, design, and theory of clinical psychological methods and clinical applications and demonstrations with appropriate case material. PSYCHIATRY


Callaway

Course consists of supervised clinical and basic research in behavioral abnormalities, psychopathology, and experimental psychiatry. Specific subjects for research are chosen in conjunction with members of the staff. PSYCHIATRY

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408. Theory of Psychotherapy. (1½) Sp. Prerequisite: Resident in Department of Psychiatry or consent of instructor. Seminar ½ hours.

Marmar

Course provides a framework for residents which will enable them to take a systematic and rational approach in evaluation of various psychotherapies, including a method of assessing the conceptual consistency and validity of a given approach. PSYCHIATRY


Malamud

Discussion of neuropathology of neurological and psychiatric disorders with illustrations from gross and microscopic material. PSYCHIATRY

419. Child Development & Personality. (½) Su. Prerequisite: Consent of instructor.

Friedlander, D. Morrison

Seminar is focused on the most common and prevalently used methods of assessing intelligence, perceptual-motor integration, and personality in children. Actual testing materials as well as supporting research are covered. Participation is required. PSYCHIATRY

421. Cult Source West Concepts Pers. (1) F, W, Sp. Prerequisite: Third-year resident standing, or one year of clinical experience, or consent of instructor. Seminar 1 hour.

E. Burke

Examination of religious, philosophical, and scientific views of man. Course objective is to broaden students’ familiarity with the background of contemporary conceptualizations of human personality. Course is required for third-year residents. PSYCHIATRY

423. Intro to Clinical Research. (1) W. Prerequisite: Psychiatry Resident II standing. Seminar 1 hour. Zegans, Temoshok

Course will introduce residents to clinical research as an essential body of knowledge and skills which can be integrated into present and future clinical work. Consideration of research within four broad paradigms: intrapsychic, sociocultural, behavioral psychological, and psychobiological. PSYCHIATRY

424. Res on Human Response to Stress. (4) Su, F, W, Sp. Prerequisite: Graduate or advanced resident standing. One year of advanced psychological or psychiatric work.

M. Horowitz, Marmar

Guided research using experimental, field, and clinical modes of investigation into the typical and idiosyncratic human responses to external stresses. The focus is on conscious and unconscious ideational, emotional and defensive processes. PSYCHIATRY

426. Evaluation Seminar. (1½) F, W, Sp. Prerequisite: Advanced trainee standing only; interns, residents, doctoral level. Seminar 1½ hours.

R. Lieberman

Evaluation seminar to promote skill in developing dynamic treatment. Trainees will become knowledgeable about philosophy and function of basic principles, required to demonstrate and justify feasibility and desirability of plan. PSYCHIATRY

427. Advanced Psychotherapy. (2-4) Su, F, W, Sp. Prerequisite: One year of full-time experience in the conduct of outpatient psychotherapy or equivalent. Lecture 2 hours. Lab 4-10 hours.

M. Horowitz, Kaltreider, Marmar

Course covers psychotherapy of selected cases with recordings of the process, supervision during treatment, and group seminars in which the therapy is reviewed in retrospect using microanalytic and macroanalytic levels of abstraction. PSYCHIATRY

428A-B-C. Sex Counseling Practicum. (7-7-7) F, W, Sp. Prerequisite: Psychiatry 180 or Psychiatry 160.14 and 160.15, or consent of instructor. Lecture 2 hours. Clinic 15 hours.

Course must be taken in order and consecutively.

Gendel and Staff

A nine-month (two days per week) minimum rotation in the Sex Counseling Unit involving didactic presentations, case conferences, and supervised counseling experience with couples and individuals presenting sexual dysfunctions. PSYCHIATRY


I. Phillips

Members of the faculty and visiting professionals present clinical discussions and new developments related to the field of child and adolescent psychiatry. PSYCHIATRY

435. Psychoanalysis & Social Science. (2) F. Prerequisite: Approval of instructors; interest (and some knowledge) in both psychoanalytic theory and sociological theory. Not offered in 1984-1985. Seminar 2 hours.

R. S. Wallenstein, Smelser

Exploration of the more successful articulations between the psychoanalytic and sociocultural paradigms, making use of classical theoretical statements, studies of social trauma and catastrophe, political biography, organizational and institutional behavior, and cultural productions. PSYCHIATRY


F. A. Johnson

Course introduces residents to various aspects of social and community psychiatry. Topics include social psychiatry prior to 1950, development of community mental health programs in the U.S., related social sciences, and current developments in the field. PSYCHIATRY


Oswald

Course emphasizes the effects of mental illness on the lives of artists, scientists, statesmen, and other public figures. Biographical, autobiographical, and clinical studies of exceptional people will be compared. Students will be encouraged to select individual subjects for research. PSYCHIATRY
448. Comparative Psychotherapy. (1) F, W. Sp. Prerequisite: Consent of instructor. Seminar 1 hour. 
Zegans
Seminar covers both theoretical and clinical perspectives, and will compare and contrast the different psychotherapeutic approaches and theories behind them. PSYCHIATRY

Residents are responsible for the study and treatment of psychiatric patients and consultation of non-psychiatric patients under the supervision of senior staff members of the faculty. Parallel reading is required. PSYCHIATRY

Residents in child psychiatry are responsible for the diagnosis and treatment of children with psychiatric problems and for therapeutic work with their parents under the supervision of the senior staff. PSYCHIATRY

Lectures in the theory and practice of mental health consultation, program evaluation and administration, and preventive services. Supervision of related field experiences by senior faculty in seminar setting. Interdisciplinary interaction emphasized. Review of relevant literature. PSYCHIATRY

457. Dreams from the Jungian Perspec. (1) Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Richman
Seminar presenting the theoretical aspects of dreams and clinical application within the Jungian framework. PSYCHIATRY

458. Forensic Psychiatry. (1½) W. Prerequisite: Consent of instructor. Seminar 1½ hours. B. Diamond, L. J. Epstein, Terr
An elective seminar discussing the major aspects of forensic psychiatry relevant to the practice of the clinician. Topics covered include competency, commitment, and criminal responsibility. PSYCHIATRY

An elective continuous case conference focusing on transference and countertransference from a Jungian perspective. Major theoretical concepts will be discussed in context of the cases being presented. PSYCHIATRY

460. Adult Continuous Case Conference. (1½) F, W, Sp. Prerequisite: Open to third-year residents only with consent of instructor. Seminar 1½ hours. Course given at San Francisco Psychoanalytic Institute Library. Orelman
Seminar reviewing the literature pertinent to psychotherapy of the severely disturbed, predominantly borderline patient. A case will be presented and discussed. PSYCHIATRY

Discussion of issues in clinical research, focusing on questions in clinical research design in the study of psychotherapy. Course will also cover psychotherapy with various character types. PSYCHIATRY

Demonstration of group therapy to be viewed on videotape. Material viewed will serve as a focus for the discussion of theory and technique in group therapy. PSYCHIATRY

Seminar covers the theory and implementation of the technique of psychotherapy with children. Emphasis is placed on play therapy. The seminar will also cover psychopathology as manifested in children, including descriptions and possible ideologies. PSYCHIATRY

Seminar covering family, group, and behavior therapy. Both theoretical and technical issues will be presented with case illustrations where appropriate. PSYCHIATRY

Seminar offers instruction in the theoretical bases of psychoanalysis. PSYCHIATRY

The theory of an individual outpatient psychotherapy is presented. The case in treatment is followed on a weekly basis. PSYCHIATRY

Diagnosis and treatment of psychiatric problems associated with speech, hearing or language difficulty. Supervised clinical work with selected patients according to resident's level of experience. Instruction with such alternative audiovisual communication systems as manual signing and voice printing. PSYCHIATRY

470. Neurology. (1) W. Lecture 1 hour. Required for fourth-year residents in psychiatry. Palatucci

471.
472.
Review of clinical neurology with emphasis on neurological disorders that may have psychiatric implications. PSYCHIATRY


This seminar follows Growth and Development I. It will cover adulthood and aging. PSYCHIATRY


Instructor's psychotherapeutic sessions with the patient are videotaped and played back and discussed with second- and third-year residents and other trainees. The material is objective and repeatable, the therapist is frank and self-critical, various theoretical views are compared. PSYCHIATRY


A study of the development and changes in psychological functions from birth to senescence. Biological aspects of growth relevant to psychological functioning are considered. Emphasis is on observational data. PSYCHIATRY


Examination of neurotic and character disorders from a psychodynamic perspective. PSYCHIATRY

480. Intro to Clinical Psychiatry. (3) Su. Seminar 3 hours. Required for second-year residents in psychiatry. Staff

Seminar provides an introduction to the psychiatric interview and diagnosis, with emphasis on psychiatric emergencies. PSYCHIATRY

482. Beh Mod in Child Psychopathol. (1) F Prerequisite: Consent of instructor. Lecture 12 hours for four weeks. D. Morrison, S. Friedlander

Basic introduction to behavior modification techniques with children. Theoretical and applied issues are discussed and reviewed in the context of research with a broad range of psychopathological conditions of childhood. PSYCHIATRY

483. Res Methodology in Child Psychr. (1) F Prerequisite: Consent of instructor. Lecture 12 hours for four weeks. D. Morrison, S. Friedlander

Review of basics of experimental design and methodology such as reliability and validity of measuring techniques, statistical inference, control group designs and pre- and post-test designs. Clinical research with children provides a focus for discussion of relevant issues. PSYCHIATRY

484. Psychologies of Other Cultures. (2) F Prerequisite: Current appointment at LPPH as resident in psychiatry, fellow in psychology, or consent of instructor. Seminar 2 hours. Scotton

Examination of other psychologies for their basic assumptions about man and the world, the resultant psychology, resultant societal behavior, and possible applications to psychotherapy. Includes lecture, discussion, and presentation of one system by each participant. PSYCHIATRY


Seminar explores biochemistry, physiology, and neuroanatomy as related to mental functioning and behavior, and applies concepts to the understanding of etiology and biological treatment of psychoses. Phenomenology and psychopathology of disorders and rationale for various psychological interventions are studied. PSYCHIATRY

487. Brief Psychotherapy. (2) Su, F, W, Sp. Prerequisite: Graduate clinical trainee standing at SGH, or consent of instructor. Lab 3 hours. Seminar 1 hour. E. Burke, Zilberg

Review of the literature on psychodynamically oriented brief psychotherapy during the first half of the semester, and review of completed cases during the second half. PSYCHIATRY


Course is a detailed study of development beginning with infancy. Representative theoretical models are used with emphasis on actual observation. PSYCHIATRY

Psychology

170. Patient Compliance. (2) § F Lecture 2 hours. G. Stone

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 specific settings. PSYCHIATRY


Lectures, readings, role-playing, and video replay will be used to teach social psychological influences on participants in health transactions; communication as joint problem-solving; specific skills of listening and speaking; awareness of nonverbal aspects of communication. PSYCHIATRY

180.01. Seminar in Psychology. (1) W Seminar 1 hour. Plainfield
Weekly discussions in which students' clinical cases are analyzed by dynamic application of behavioral theory. DENT PUB HTH 180.02. Psychol Aspects of Treatment Plan. (1) Sp. Seminar 1 hour. Plainfield

This course integrates students' basic training from the specialty courses in dentistry with knowledge of the psychological considerations necessary to individualize treatment. Appropriate treatment may then be planned to the practitioners' awareness of the unique needs of patients. DENT PUB HTH

180.03. Adv Psychol for Dental Hygiene. (1) Sp. Seminar 1 hour. Plainfield

Seminar discussions on the emotional aspects of interpersonal transactions among office personnel, therapists, and patients. DENT PUB HTH

180.05. Stress Among Hlth Professionals. (2) § Sp. Seminar 2 hours. Garfield

Course will focus on a theoretical understanding of the origins of job stress and the nature of burnout, and on practical and programmatic methods of reducing the stress overload incurred by physicians, nurses, and other health care professionals. PSYCHIATRY

180.06. Behavioral Medicine Seminar. (1½-3) § F, W, Sp. Prerequisite: Experience and/or course work in either research methods or clinical theory and intervention. Consent of instructor. Lab optional. Seminar 1½ hours. Teneshok, Stone

Participants and invited guests will present their in-progress research ideas and proposals, data analyses, and/or manuscript drafts for critique. Clinical research in behavioral medicine literature will also be discussed. PSYCHIATRY


Review of selected studies drawn from decision analysis and judgment research literature. Subjective probability estimates, confidence, bias, and diagnostic accuracy; Bayes optimal strategies; computer-aided diagnosis; medical schools' admission decisions; judgments of clinical competence and administrative decision-making. PSYCHIATRY

180.08. Brain Behavior Research Methods. (3) § W. Prerequisite: Psychology 231 or equivalent. Lecture 2 hours. Seminar 1 hour. Galin and Staff

An extensive survey of techniques and strategies emphasizing careful appreciation of principles and range of appropriateness rather than how-to-do-it. Topics include clinical lesion studies, microscopic anatomy, neuroradiology, neurochemistry, psychopharmacology, autonomic psychophysiology, scalp electrophysiology, behavioral genetics, neuropsychological assessment. PSYCHIATRY

181.02. Cerebral Hemispheric Spec. (2) § Sp. Prerequisite: Background in neurophysiology, anatomy, cognitive psychology, intended for advanced students. Consent of instructor: Seminar 2 hours. Galin

Group discussions of readings in seminar format of neuropsychology of hemispheric specialization for cognitive function, and integration of the two hemispheres; developmental, psychiatric, and educational implications; evaluation of data from study of brain lesions, electrophysiological recordings, and behavioral testing. PSYCHIATRY

181.05. Changing Health Behaviors. (1-2) § Sp. Seminar 1-2 hours. Henderson, Rugg

An overview of learning theory and the principles of behavior change. Clinical and research examples of treatment approaches to obesity, smoking cessation, eating disorders, adherence to medical instructions, and other health behaviors. PSYCHIATRY


Consideration of psychological processes utilized under stress and of alternative constructive methods for coping, with practice in using these techniques. Course is designed to help students handle stress and apply such principles to management of patients. PSYCHIATRY

185. Nonverbal Communication. (1) § F. Not offered 1984-85. Lecture 8 hours given in one day, plus research project. Ekman

Reading messages from the face and body; what patients reveal without words about their feelings and personality, and what you are revealing to them. PSYCHIATRY

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 chairperson of the department. PSYCHIATRY

200. Learning & Cognition. (4) § W. Prerequisite: Graduate standing in Health Psychology Program, or upper division courses in learning and cognitive psychology, and consent of instructor: Seminar 4 hours. Offered in alternate years. Not offered 1984-85. G. Stone, Halliday, Peake

Course provides a basis for continued reading of current research and theory in learning and cognition, and for designing interventions in health transactions based on readings; identifies and traces history of major issues and viewpoints. PSYCHIATRY

202A-B. Compr Simulation of Hum Interact. (3-5) § W, Sp. Prerequisite: Psychology 257 or equivalent. Lecture 1 hour; Lab 6 hours. Starkweather

The development and testing of theoretical models of personality are explored by means of computer programs. Students program the computer for simulation and symbol manipulation. PSYCHIATRY
205. Child Development. (3) § F. Prerequisite: Consent of instructor. Lecture 3 hours.

C. Lewis

Course will focus on major issues, theories, and findings in child development. Topics covered will include attachment, Piagetian and other theories of cognitive development, language development, moral development, and pro-social behavior, aggression, and self-esteem and competence. PSYCHiatry

210. Personality Psychology. (4) § F. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. Not offered 1984-85.

F. Cohen

General and systematic issues in the study of personality, theoretical and methodological issues in the assessment of personality and in research on personality. PSYCHiatry

211A-B. Theories of Personality. (2-2) § W, Sp. Prerequisite: Graduate standing and consent of instructor. Psychology 211A is prerequisite to 211B, but may be taken independently of 211B. Seminar 2 hours. Enrollment limited.

J. Fisher

Survey of major contemporary theories of personality, including some more recent, selected philosophic points of view; study of their structure, how they conceptualize personality development, how they relate to empirical phenomena, and what research is generated by them. PSYCHiatry

212. Psychological Stress & Coping. (4) § W. Prerequisite: Consent of instructor. Seminar 4 hours. Offered in alternate years. Offered 1984-85.

F. Cohen

Course examines stress and coping theory and research from clinical, field, and laboratory settings; measures of stress; issues in stress research; the nature of coping and coping processes. PSYCHiatry

213. Theories of Emotion. (1) § F, W. Prerequisite: Knowledge in at least one or two substantive areas such as social psychology, cognition, psychopathology, cultural anthropology. Seminar 2 hours biweekly.

Ekman

Seminars will cover discussions of a variety of theories and research concerned with emotion, such as definitions; expression behavior; physiological concomitants; relationships with cognition, consciousness and cultural philosophical implications; and biopsychosocial applications. Guest speakers included. PSYCHiatry


Atkinson (F).

G. Stone (W, Sp)

This seminar will acquaint students with research in health psychology. Presentations of research studies in health care problems and discussion of related issues will be given by students as well as by guest speakers. PSYCHiatry

221. Prog Eval in Hlth & Human Serv. (2-4) § F, W. Prerequisite: Intended for graduate and professional students. Consent of instructor. Seminar 2 hours.

Atkinson

A seminar course designed to provide a basic overview of the organizational context of program evaluation; design and implementation of information systems; assessment of community needs; evaluation of program quality and effectiveness, and training of evaluators. PSYCHiatry

222. Practicum in Program Evaluation. (2) § F, W. Prerequisite: Graduate standing and some experience in interviewing. Lab 3 hours. Seminar 6 hours during first 4-6 weeks.

Blackwell

After an intensive seminar introduction to basic concepts of evaluation, students will carry out various evaluations on clinical clerkships in the School of Medicine. The introduction will be five weeks in length, depending on previous experience of students. PSYCHiatry

230. Physl Aspects of Hlth Psychol. (4) § F. Prerequisite: Graduate standing in Health Psychology Program or consent of instructor. Lecture 4 hours. Offered in alternate years. Offered 1984-85.

Naifeh, Yingling

An overview of major organ systems of the human body stressing psychological impacts on their functioning and psychological consequences of abnormality. Course will prepare student for reading medical literature and interacting effectively with health professionals in planning research. PSYCHiatry

231. Introduction to Biopsychology. (3) § F. Prerequisite: Basic courses in experimental psychology and consent of instructor. Lecture 3 hours.

Herning

Central nervous system mechanisms involved in sensory information processing and in the regulation of behavior will be emphasized. Elementary neurophysiology, anatomy and neurochemistry will be discussed as background material. PSYCHiatry

252. Topics in Biological Psychology. (2) § F. Prerequisite: Physiological psychology, neurophysiology and neuropsychology. Seminar 2 hours.

Salany, Halliday

A seminar course focusing on issues of current interest in biological psychology. Topics may include those such as brain electrical events, human neurodevelopment, cognitive processes. Individual presentations and discussion will be required. PSYCHiatry


Callaway

An ongoing seminar devoted primarily to the research interests of the group studying human event related potentials. Course includes visiting scientists, as well as presentations by staff and postdoctoral fellows. PSYCHiatry
234. Neurochem Basis of Abnor Psychol. (2) § F, Sp. Prerequisite: Consent of instructor. Seminar 2 hours. 

Elman

Seminar and readings on subjects related to the neurochemical, neuropharmacological basis of CNS functions; cell physiology of the nervous system. PSYCHIATRY


Course considers the relationship among behavior, consciousness and physiological processes as investigated through the study of the autonomic nervous system and the electroencephalogram. PSYCHIATRY

236A-B-C. Human Neurophysiology. (1-1-1) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Yingling

A journal club format seminar course which will examine the current literature in human EEG and evoked potentials, with emphasis on identification of cerebral sources. Students will make oral class presentations. PSYCHIATRY

237. Neurophysiological Mech of EEG. (3) § W. Prerequisite: At least one course in physiological psychology or neurobiology, or consent of instructor. Lecture 1 hour. Seminar 2 hours. Yingling

Course will examine the neuroanatomical and neurophysiological mechanisms underlying the generation and regulation of EEG and Event-related Potentials, their measurement and clinical uses. Emphasis on the nature and limitations of inferences concerning brain activity obtainable from scalp recordings. PSYCHIATRY

240. Social Psychology. (4) § F. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. Not offered 1984-85. N. Adler

A critical review of social psychological theory and research. Topics include role theory, attribution theory, group dynamics, interpersonal relations, social influence, decision-making, attitude formation and change, and the application of social psychology to problems of health and social care. PSYCHIATRY

248. Independent Study. (1-6) § F, W, Sp. Prerequisite: Consent of instructor. Staff

Independent study under the supervision of a member of the faculty. PSYCHIATRY


254A. Research Methods. (4) § W. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. Not offered 1984-85. 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, uses of archival data, and observational techniques. PSYCHIATRY

254B. Research Methods. (4) § Sp. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. Not offered 1984-85. N. Adler

An in-depth study of the research process with emphasis on quasi-experimental design, ethics of research and grant writing. PSYCHIATRY

257. Intro to Comptr for Beh Sci. (3) § F. Prerequisite: Elementary statistics and consent of instructor. Lecture 1 hour. Lab 6 hours. Starkweather

The computer is studied as a useful tool for data analysis and controlled experiment. Students will learn to make use of existing program systems. PSYCHIATRY

260. The Health System. (4) § W. Prerequisite: Graduate standing in Health Psychology Program, or consent of instructor. Lecture 2 hours. Seminar 2 hours. Offered in alternate years. Offered 1984-85. Attiksson

Function and tasks of the health system with emphasis on the study of health service organizations and health services delivery from the perspective of living systems theory and organizational psychology. PSYCHIATRY

262. Intro to Health Psychology. (4) § Sp. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. Not offered 1984-85. F. Cohen

Examination of empirical research and theoretical perspectives in certain problem areas within the health system where psychological knowledge is of direct relevance, such as information-processing in patient and physician, compliance, coping with the stress of illness. PSYCHIATRY

263A-B-C. Research Placement & Seminar. (4-4-4) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Lab 9 hours. Offered in alternate years. Offered 1984-85. N. Adler, Attiksson

Students will be placed in an ongoing research project in which they will carry out an individual project. They will participate in a current seminar, where research methods and strategies and problems of research will be discussed. PSYCHIATRY

264. Health Services Transactions. (2) § Sp. Prerequisite: Consent of instructor. Seminar 2 hours. Stone

Processes of giving and gaining health services are viewed as multi-person problem situations to be resolved through communication. Participation in selecting relevant literature for description and analysis from which a systematic analytic framework can be developed. PSYCHIATRY

265. Stress & Bodily Disease. (4) § Sp. Prerequisite: Consent of instructor. Seminar 4 hours. Offered in alternate years. Offered 1984-85. F. Cohen

Examination of the psychological and physiological models and empirical research
linking stress and other psychological factors to the development of bodily disease. PSYCHIATRY

266. Reproductive Behavior. (3) § F. Prerequisite: Consent of instructor. Seminar 3 hours. Offered in alternate years. Offered 1984-85.

N. Adler

Examination of the role that psychological and social factors can play in variety of reproductive behaviors: pregnancy, obstetrical complications, postpartum reactions, infertility, contraceptive use and nonuse, spontaneous and induced abortion. PSYCHIATRY

267. Psychology of Pain. (2) § F. Seminar 2 hours. Course will not be offered for fewer than 5 students. Offered in alternate years. Offered 1984-85.

Overview of the psychology of pain and a systematic review of the literature from both clinical and laboratory work, with primary emphasis on the behavioral, cognitive, and motivational influences on pain. PSYCHIATRY

268. Health Status & Behavior. (3) § F. Prerequisite: Graduate status in a social or behavioral science program or consent of instructor. Seminar 3 hours.

Stone

Investigates the relationships between beliefs, attitudes, and mental representations concerning health and illness, the behavior of the individual with regard to hazards, health protection, health care utilization, and adherence to medical regimens, and the health status of the individual. PSYCHIATRY

270A-B. Commun Skills in Health Trans. (2-2) § W. Sp. Prerequisite: Graduate standing in Health Psychology Program, or consent of instructor. Lecture 1 hour. Lab 3 hours. Offered in alternate years. Offered 1984-85.

Stone

A two-part course that teaches a number of skills involved in face-to-face interactions and prepares the student to do research on communication, and to teach the skills to others. PSYCHIATRY

280. Intro to Clinical Psychology. (3) § F. Prerequisite: Psychology 210 or equivalent, and consent of instructor. Lecture 3 hours. Offered in alternate years. Offered 1984-85.

F. Cohen, Friedlander

Critical evaluation of current models of behavior pathology; issues of prevention; theory and method of clinical assessment; processes of therapeutic intervention. PSYCHIATRY


Attkisson

Seminar discussions of contemporary research in clinical psychology. Issues covered include major problems in conducting clinical research, skills and methods required in clinical research, and career development for the clinical psychologist. Course is intended primarily for advanced clinical psychology students. PSYCHIATRY

282. Abnormal Psychology. (2) § F, W, Sp. Prerequisite: Consent of instructor. Course is intended primarily for advanced students. Seminar 2 hours.

J. Fisher

Nature, causes, development and treatment of major behavior disorders such as the brain syndromes, drug addictions and the functional psychoses which result in disabling disturbances of interpersonal relations. Contemporary theories of personality development and clinical study of mental disorders. PSYCHIATRY

285A-B-C-D. Intermediate Family Therapy. (1½-3-3) § SS2, F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Four-quarter course.

Hatcher

Stages in family development, communications analysis, role definitions, family myths, power and resistance systems, growth models of family therapy, and intervention techniques. Emphasis on clinical and practical issues, videotape presentations of families in treatment, clinical supervision of ongoing cases. PSYCHIATRY

299. Dissertation. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. For graduate students engaged in writing the dissertation for the Ph.D. degree. PSYCHIATRY

300. Teaching Practicum. (0) § F, W, or Sp. Prerequisite: Consent of instructor. Lecture and lab variable.

Staff

Supervised classroom or tutorial teaching experience. PSYCHIATRY

Radiation Oncology

140.01. Radiation Oncology Clerkship—UC. (1½ per week) Su, F, W. Sp. Prerequisite: Medicine 131A-B-C.

T. Phillips

Participation in examination of cancer patients under treatment in radiation oncology. Students participate in rounds, conferences and clinics, and see demonstrations on the use of newer radiotherapeutic techniques. RADIOLOGY

140.06. Radiation Oncology Clerkship—MZ. (1½ per week) Su, F, W. Sp. Prerequisite: Medicine 131A-B-C.

J. Castro

Participation in examination of cancer patients under treatment in the Claire Zellerbach Saroni Tumor Institute at MZ. Students participate in rounds, conferences and clinics, and see demonstrations on the use of newer radiotherapeutic techniques. RADIOLOGY

150.01. Research Selective. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C.

T. Phillips

Individual research in radiation oncology by arrangement with the chairperson of the department. Students work under close supervision of a member of the staff. RADIOLOGY
Residents, under supervision, are responsible for diagnosis, treatment, and follow-up of patients referred to radiation therapy from the wards and outpatient clinics. Radiation therapy rounds include discussion of newly referred patients; chart rounds include the discussion of patients under treatment. RADIOLOGY

**Radiology**

100. **Intro to Clinical Radiology.** (2) F, W, Sp. Prerequisite: Anatomy 100 and 105, Medicine 130, Pathology 102, and Psychiatry 130; concurrent enrollment in Medicine 131A-B-C. Lecture 1 hour. Lab 1 hour. S. Ross

Course provides instruction in basic aspects of therapeutic and diagnostic radiology and nuclear medicine. Illustration of diagnostic and therapeutic modalities in specific disease states provides instruction in use of radiologic resources. RADIOLOGY

140.01. **Advanced Roentgen Diagnosis.** (1½ per week) Su, F, W, Sp. Prerequisite: Radiology 140.35. Consent of instructor. Margulis, S. Ross

Advanced clinical clerkship for students interested in a career in academic radiology. Students observe clinical work, observe or participate in research, and write a term paper. RADIOLOGY

140.02. **Off-Campus Clerkship.** (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C. Margulis

Clinical clerkship in approved hospital by special arrangement and approval of the chairperson of the department and the dean. RADIOLOGY

140.04. **Nuclear Medicine.** (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C. Hatner

Observation of basic nuclear medicine procedures and participation in diagnostic tests employing radioisotopic tracers. RADIOLOGY

140.05. **Diagnostic Radiology-MZ.** (1½ per week) Su, F, W, Sp. Prerequisite: Third- or fourth-year standing. A. Davidson

Rotation through each service in the Department of Radiology on a scheduled basis; participation in film interpretation with residents and faculty; and attendance at daily conferences; tutorials available with members of the faculty; role of radiology in clinical management emphasized. RADIOLOGY

140.08. **Cardiovascular Radiology.** (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C. Carlsson

Cardiovascular radiology provides an opportunity to become acquainted with the radiologic studies of the cardiovascular system through active participation in the examinations and their interpretation. RADIOLOGY

140.09. **Diagnostic Radiology-SFGH.** (1½ per week) Su, F, W, Sp. Prerequisite: Fourth-year standing or consent of instructor. Minagi
with consent of instructor. M. Anderson, J. L. Williams and Staff

Acquaints students with available techniques in diagnostic radiology, including nuclear medicine, ultrasound, computed tomographic scanning, angiography, other special procedures, conventional X-ray examination, fluoroscopy, and provides an introduction to "routine" film interpretation. Students have assignments at VAF, VMC, community hospitals.

**140.15. Diagnostic Radiology.** (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Surgery 110. Margulis, S. Ross

Clerkship in radiology for fourth-year students. Observation of procedures, review of pathology, pathophysiology, diagnosis, and natural history of selected diseases through study of roentgenograms with case histories. Potentials and limitations of radiologic method included. RADIOLOGY

**140.16. Basic Nuclear Medicine—STA** (1½ per week) Su, F, W, Sp. Prerequisite: Fourth-year standing. Corbus, Touya

Imaging techniques including nuclear cardiology, single photon emission tomography, and computerized processing at St. Agnes Medical Center, Fresno. RADIOLOGY

**150.01. Research in Radiology.** (1-1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 and approval of instructor. For students seriously interested in a career in academic medicine. Margulis, L. Kaufman, S. Ross

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


Course describes anatomy in the living through the use of radiographs. Objectives are to show the usefulness of knowing anatomy, to begin acquiring a medical vocabulary, the elements of clinical thinking, and useful habits in learning. For freshman "Blue" group.

**170.06A-B-C-D. Pathology of Internal Organs.** (1-3, 1-3, 1-3, 1-3) Su, F, W, Sp. Lecture 1-3 hours. S. Ross

A lecture course limited to small groups, with active participation on selected aspects of pathological anatomy and its usefulness in understanding disease, its origins, development and clinical manifestations. For sophomores. RADIOLOGY


Course demonstrates anatomy in the living through the use of radiographs. Objectives are to show the usefulness of knowing anatomy, to begin acquiring a medical vocabulary, the elements of clinical thinking, and useful habits in learning. For freshman "Gold" group.

**170.08. Nuclear Medicine Physics.** (3½) Su. Prerequisite: Given concurrently with Radiology 170.09. Lecture 4 hours a week for 6 weeks. Independent study 10 hours. Perez-Mendez

Introduction to the physics of radioactivity, nuclear instrumentation and gamma-ray imaging techniques. RADIOLOGY

**170.09. Introduction to Nuclear Medicine.** (3½) Su, F, W, Sp. Prerequisite: Given concurrently with Radiology 170.08. Lecture 5 hours a week for 6 weeks. Independent study 10 hours. D. Price

Introduction to basic nuclear medicine diagnostic procedures, both in vivo and in vitro, and therapy with radiopharmaceuticals. RADIOLOGY


Weekly seminar covering the radiologic studies of surgical cases emphasizing indications, risks, and information derived from procedures. Active participation in X-ray interpretation is included. RADIOLOGY

**170.11. Emergency Radiology.** (1) Su. Lecture 1 hour. Minagi

An elective course for fourth-year medical students. Consideration of the role of the radiologist as a consultant in the emergency room. Topics covered include head injuries, fractures, dislocations, chest, abdominal and genito-urinary trauma, and management of contrast reactions. RADIOLOGY

**198. Supervised Study.** (1-5) F, W, Sp. Margulis and Staff

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

**199. Laboratory Project.** (1-5) F, W, Sp. Margulis and Staff

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. RADIOLOGY

**220. Radiol Physics for Physicians.** (2) § F, W, Sp. Prerequisite: Bachelor's or higher degree in the physical sciences. Staff

Seminars provide physicists with an in-depth knowledge of radiological physics. RADIOLOGY

**400. Diagnostic Radiology Seminar.** (1) Su, F, W, Sp. Lecture 1 hour. H. Goldberg

Faculty from radiology and other departments lecture and discuss various diseases of all systems of the body. Residents prepare case histories stressing roentgen findings and correlative surgical and laboratory work, special studies, library, and film research. RADIOLOGY

**401. Diagnostic Case Rounds.** (2) Su, F, W, Sp. Margulis, Goodling

Films of interesting cases from the daily work are presented and reviewed. Roent-

Seminars require preparation and presentation of roentgen findings on patients under discussion at medical, surgical, pediatric, obstetric and gynecologic departmental conferences and seminars on congenital heart disease, disease of the gastrointestinal tract, and orthopaedics. RADIOLOGY

403. Emergency Radiology. (1) F, W. Prerequisite: Required for first-year residents in radiology. Lecture 1 hour. Minagi

Role of radiologist as consultant in the emergency room; head injuries, fractures, dislocations, blunt and penetrating chest trauma, blunt and penetrating abdominal trauma, trauma to genito-urinary system; management of contrast reactions; indications for, conduct of, interpretation of special radiologic procedures. RADIOLOGY


Numerous research projects are conducted in the department and facilities are available for new ones. Residents are encouraged to take advantage of these opportunities. RADIOLOGY


Interdepartmental seminars in which the radiological picture of problem cases either of diagnostic or therapeutic nature is presented. This course includes surgical and medical radiological rounds, consultative tumor board, clinicopathological conferences, and other department grand rounds. RADIOLOGY


Interdepartmental seminars in which the radiological picture of problem cases either of diagnostic or therapeutic nature is presented. These include medical-surgical, clinicopathological, chest, medical X-ray, rheumatology, neurology, and neurological surgery conferences; consultative tumor board; and surgical and orthopaedic grand rounds. RADIOLOGY

410. Radiat Effects on Genes & Chrom. (2) W. Prerequisite: Consent of instructor. Lecture 2 hours. S. Wolff

Concepts and mathematics of target theory related to damage of genetic apparatus. Biophysical and biochemical studies on induction of intragenic and intergenic mutations that give insight into the structure of chromosomes and interaction of radiation with biological material. RADIOLOGY

412. Pathology. (1) Su, F, W, Sp. VA Hinchcliffe

Course includes review of surgical pathology material and attendance at autopsy rounds. RADIOLOGY


Course is designed to acquaint residents with the physical principles of diagnostic radiology. Topics include generation and extraction of radiologic information, image conversion, recording methods, and special-purpose equipment. CT and ultrasound physics are discussed. RADIOLOGY

419. Growth Kinetics—Cells & Tumors. (2) Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Cleaver, Patt

An analysis of cell population growth in tissues, tumors, and cultures. Emphasis is given to radioactive tracers such as thymidine and its biochemical, and experimental methods for studying cell proliferation in vivo and in vitro. RADIOLOGY


Rotating assignments of topics for discussion by residents in nuclear medicine training programs in all affiliated hospitals. Critical reviews of available information in limited areas are used to provide a broad review of nuclear medicine for all trainees. RADIOLOGY


Clinical experience in diagnostic and therapeutic nuclear medicine to satisfy requirements of American Board of Radiology for certification in diagnostic radiology and radiation therapy. RADIOLOGY


Residents, under supervision, carry out radiological examination and interpretation of X rays of patients referred from wards and outpatient clinics. The chief resident has certain administrative duties relative to the resident training program. RADIOLOGY

452. Clinical Diagnostic Radiology. (1½ per week) Su, F, W, Sp. Prerequisite: Radiology 450. VA Akin

Residents, under supervision, are responsible for the diagnostic activities of the department, including diagnostic consultations and reports, history-taking, and physical examinations. In addition, the chief resident has certain administrative duties relative to the resident training program. RADIOLOGY


Residents are responsible for the diagnostic activities of the department under the direction of staff radiologists including diagnostic
consultations and reports, history-taking, and physical examinations. RADIOLOGY

Removable Prosthodontics

110B. Elementary Complete Denture Prosthodontics. (1) W. Lecture 1 hour. Firtell

Lectures on the elementary principles of complete dentures. Prosthodontics emphasize the biological background and clinical application of the technical steps. RESTOR DENT


An elective course offering instruction in procedures and materials other than those normally used in the clinic. RESTOR DENT

181. Fixed & Removable Methods. (1) F, W. Prerequisite: Fourth-year standing. Lecture 1 hour. Augsburger

Concepts of vertical and cross-arch stabilization relating to partial prosthetics are reviewed. Preservation of a few remaining teeth and the edentulous ridges through bioengineering principles is emphasized. Patient psychology, periododontics, endodontics and dental implants are related to removable prosthodontics. RESTOR DENT


Seminar to discuss and determine the reasons clinical cases failed and to recommend new treatment or design principles of routine situations, but unusual cases may be used to depict specific problems. RESTOR DENT

189.02. Complete Prosthodontics. (0-7½) SS2. Prerequisite: Fourth-year standing. Lab and clinic variable. Firtell

Work is done in a clinic location remote from the school or satellite clinics, such as California Veterans Home, Israel Project. For clinical work completed, credits will be given to satisfy part of the Removable Prosthodontics 109 requirement. RESTOR DENT


Senior dental students will observe and perform maxillofacial prosthodontic services for patients in the Maxillofacial Clinic. A detailed case history will be required each quarter. Attendance at related tumor board conferences and field trips to other therapy centers. RESTOR DENT

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. RESTOR DENT


Course is designed to acquaint residents with multidisciplinary aspects of maxillofacial prosthetics. Lectures will be given on maxillofacial prosthetic techniques, oncology, head and neck surgery, plastic surgery, oral surgery, therapeutic radiology, psychology and related oral biology. RESTOR DENT


Residents and advanced prosthodontic students will observe and perform maxillofacial prosthodontic services for patients in the Maxillofacial Clinic. A detailed case history will be required each quarter. Attendance at related tumor board conferences and field trips to other therapy centers. RESTOR DENT

Restorative Dentistry


All third- and fourth-year dental students will demonstrate their ability to manage the overall needs of their patients. Specifically, they will keep accurate clinical records, demonstrate correct sequence of treatment, and show satisfactory completion of treatment by quarter. RESTOR DENT


Students elect to complete requirements in any one or more of the divisions after satisfactorily completing all requirements in Fixed Prosthodontics 109, Operative Dentistry 109, and Removable Prosthodontics 109. RESTOR DENT

110A. Intro to Restorative Dentistry. (1½) F. Prerequisite: Concurrent enrollment in Restorative Dentistry 115A. Lecture 1½ hours. Jendresen, Tueller, D. Graham

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

110B. Intro to Restorative Dentistry. (3) W. Prerequisite: Restorative Dentistry 110A. Concurrent enrollment in Restorative Dentistry 115B. Jendresen, Hamaguchi, Harman

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 gypsum, cements, resins, waxes, colloids, metals; and introduction to complete denture prostheses. RESTOR DENT
110C. Intro to Restorative Dentistry. (4½)
Sp. Prerequisite: Restorative Dentistry 110B.
Concurrent enrollment in Restorative Dentistry 115C. Lecture 4½ hours. *Jendresen, Radke, D. Graham, Firtell*

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

116B-C. Primary Clinical Care. (0-3) W, Sp. Lecture 1 hour. Clinic 3 hours. *Jendresen, Braly, Eakle*

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 infiltration local anesthesia, rubber dam application, making and mounting diagnostic casts, and chairside assisting. RESTOR DENT

120A. Restor Dent Techniques Theory. (3) F. Prerequisite: Restorative Dentistry 110C and 115C. Concurrent enrollment in Restorative Dentistry 125A. Lecture 3 hours. *Jendresen, Sherraden, D. W. Martin, Firtell*

Continuation of instruction in theory and principles of dental restorations, including fundamentals of bridge construction, ceramic-metal restorations, techniques in operative dentistry, fundamentals of partial denture design, and construction of the partial denture. RESTOR DENT

120B. Restor Dent Techniques Theory. (4) W. Prerequisite: Restorative Dentistry 120A. Concurrent enrollment in Restorative Dentistry 125B. Lecture 4 hours. *Jendresen, N. Nguyen, Lacy, Augsburger*

Theory and principles of dental restorations: rationale for use of clinical restorative materials, manipulation, clinical application of restorative systems; introduction to endodontics, background for clinical practice, continuing discussions of theory and principles in operative dentistry, fixed and removable prosthodontics. RESTOR DENT

120C. Restor Dent Techniques Theory. (3) Sp. Prerequisite: Restorative Dentistry 120B. Concurrent enrollment in Restorative Dentistry 125C. Lecture 3 hours. *Jendresen, Lacy, T. Curtis, D. W. Martin*

Theories and principles in biomaterials, endodontics, fixed prosthodontics, operative dentistry, removable prosthodontics are interrelated, and clinical application of principles is stressed. Students are instructed to vary routine treatment as necessary to handle problems of geriatric, immobile, bedridden, or institutionalized patients. RESTOR DENT

125A. Restorative Dental Techniques. (0) F. Prerequisite: Restorative Dentistry 110C and 115C. Concurrent enrollment in Restorative Dentistry 120A. Lab 18 hours. *Jendresen, Sherraden, D. W. Martin, Firtell*

Laboratory instruction in the disciplines of fixed prosthodontics, operative dentistry, and removable prosthodontics. Topics include instruction in basic bridge construction, ceramic-metal restorations, cast gold restorations, and partial denture construction. RESTOR DENT

125B. Restorative Dental Techniques. (0-11) W. Prerequisite: Restorative Dentistry 125A. Concurrent enrollment in Restorative Dentistry 120B. Lab 15 hours. *Jendresen, N. Nguyen, Lacy, T. W. Wood*

Continuation of laboratory instruction in the disciplines of endodontics, fixed and removable prosthodontics. Techniques include laboratory procedures involved in root canal therapy, instruction in ceramic-metal restoration, and fabrication of immediate dentures. RESTOR DENT

125C. Restorative Dental Techniques. (4) Sp. Prerequisite: Restorative Dentistry 125B. Concurrent enrollment in Restorative Dentistry 120C. Lab 12 hours. *Jendresen, Muncheryan, D. Graham*

Continuation of laboratory instruction in the disciplines of operative dentistry and removable prosthodontics. Techniques include restoration with condensed gold foil and fabrication of a complete denture. RESTOR DENT

Thirty hours per quarter of clinic in comprehensive case workup of dental patients. Includes case history, clinical examination, diagnosis, and treatment planning to meet the patient’s total dental needs. RESTOR DENT

130.01. Clin Application of Techniques. (1) SS1. Prerequisite: Restorative Dentistry 120C and 125C. Lecture 2 hours. **Jendresen, Meli**

Introduction to work in the clinic. Emphasis is on application of techniques taught in the laboratories. Topics include diagnosis, occlusion, tooth preparation, and temporization. RESTOR DENT


Continuation of Restorative Dentistry 130.01, with emphasis on clinical application of restorative techniques. Topics include diagnosis and treatment of pulp disease, tooth preparation and impression materials, diagnosis and treatment of dental emergencies, and treatment planning for the edentulous patient. RESTOR DENT

130.03. Clin Application of Techniques. (3) W. Prerequisite: Restorative Dentistry 130.02. Concurrent enrollment in Restorative Dentistry 109. Lecture 3 hours. **Jendresen, Tueller, Braly, Krol**

Continuation of Restorative Dentistry 130.02, with emphasis on clinical application of restorative techniques. Topics include temporary restorations and occlusal therapies, rationale of cutting techniques and pulpal response to restorative treatment, and treatment planning for removable partial dentures. RESTOR DENT


Continuation of Restorative Dentistry 130.03, clinical application of restorative techniques. Topics include understanding why clinical failures occur with selected materials, biological responses to dental materials, pulp protection, pulpal response to treatment, and prosthetic treatment of patients with congenital or acquired malformations. RESTOR DENT

139. Clinical Restorative Dentistry. (0-10) F, W, Sp. Prerequisite: Student must pass second-year qualifying examinations in the Department of Restorative Dentistry and be third-year student in good standing. Concurrent enrollment in Restorative Dentistry 130.01, 130.02, 130.03 and 130.04. Clinic variable. **Jendresen, Braly, Firtell, N. Nguyen, Tueller**

Clinical instruction and practice in the disciplines of endodontics, fixed prosthodontics, operative and primary care, and removable prosthodontics. Course is graded after student passes qualifying examinations at the end of Spring quarter, third year. RESTOR DENT

149. Clinical Restorative Dentistry. (0- 22½) F, W, Sp. Prerequisite: Student must pass third-year qualifying examinations in the Department of Restorative Dentistry and be fourth-year student in good standing. Clinic variable. **Jendresen, Braly, Firtell, N. Nguyen, Tueller**

Clinical instruction and practice in the disciplines of endodontics, fixed prosthodontics, operative and primary care, and removable prosthodontics. Course is graded after student passes qualifying examinations at the end of Spring quarter, fourth year. RESTOR DENT


Course will emphasize the dietary requirements for the geriatric prosthodontic patient. A dietary analysis of the student and a prosthodontic patient currently under treatment will be required. RESTOR DENT

Various types of removable prostheses will be fabricated using different techniques and treatment philosophies. RESTOR DENT.


Fixed prosthetics clinical procedures will be performed using a variety of treatment philosophies and articulating instruments.

RESTOR DENT

180. Clin Restor Preceptorship. (1) F, W. Sp. Prerequisite: Restorative Dentistry 139 and approval of instructor. Limited enrollment. Clinic 3 hours. Lacy and Staff

Students will observe, assist, and deliver restorative dental care under the preceptorship of full-time faculty within the Faculty Dental Service. Participation includes diagnosis, treatment planning, emergency, routine and advanced restorative procedures. RESTOR DENT


Continuation of clinical experience at the level of Restorative Dentistry 149. RESTOR DENT

189.01. Clinical Operative Dentistry. (1-4) F, W, Sp. Prerequisite: Fourth-year standing and approval of clinic review committee. Clinic 30 hours. Brady

Students participate in the delivery of restorative dental care in various extramural sites under direct supervision of faculty members. RESTOR DENT

Sociology

126. Third World Families. (3) § F, W, Sp. Lecture 2 hours. Lab 3 hours. Staples

Examination of family structures and dynamics among Third World peoples. Families to be discussed include Africans and Afro-Americans, Asians, Native Americans and Latinos. Emphasis on continuities in the family life of these groups in their native land and in the United States. SOC BEH SC

130. Sociocultural Variations in Health. (3) § W. Lecture 3 hours. Schatzman

Course addresses socio-cultural variations in health with implications for nursing practice. SOC BEH SC

134. Women's Roles in Health Care. (3) § F, W or Sp. Lecture 3 hours. Olsen

Analysis of sex roles in general and women's roles in particular in health care receipt and delivery, with special emphasis on recruitment problems to health professions, images of women in therapeutic situations, and cross-cultural features of health care. SOC BEH SC

136. Management of Pain. (3) § Sp. Lecture 2 hours. Lab 3 hours. A. Strauss

Pain as experienced, expressed, and managed in a variety of settings by patients, staff, and family. Sociological and organizational perspectives on assessing, legitimizing, and controlling pain. SOC BEH SC

138. Sociology of Change in Ill Health. (3) § W, Sp. Prerequisite: Open to upper division and graduate students. Lecture 3 hours. Staff

Review of social change in health care systems with particular attention to implications of change at all system levels such as patient, alternative curing practices, policies, new occupations, types of future care. Debate on and examination of key issues. SOC BEH SC

140. Introduction to Sex Roles. (3) W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Lewin, Olsen

Examination of current theories about biological and evolutionary bases of gender stratification systems; their universal features and range of variation they exhibit. Interfaces between gender roles and economic, political, religious, and social organizational aspects of U.S. and other cultures explored. SOC BEH SC


Course addresses the organization of health care and its politics, with emphasis on both the United States and International health issues. SOC BEH SC

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 chairperson of the department. SOC BEH SC

203. Chronic Illness. (3) § F, W Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Problems faced by chronically ill persons and their families including crisis management, handling symptoms, managing regimens, social isolation, phases of the disease, temporal difficulties, normalization, dying. Some policy issues, including those confronting health care personnel as well as the general public. SOC BEH SC

204. Sociology of Psychiatry. (3) § Sp. Lecture 3 hours. Schatzman

Psychiatric practices, professional careers, and institutions conceptualized sociologically as historic, symbolic systems and interational processes. SOC BEH SC

205. Health Professions & Occupations. (4) § F Seminar 4 hours. A. Strauss

The nature of occupations and professions; their constellation in hospitals and clinics, the medical division of labor, specialties and specialization, professional and occupational ideologies, the sociology of work relationships, careers. Seminar engages in preliminary research into these topics. SOC BEH SC
207. Sociology of Health & Medicine. (4) § F. Prerequisite: Doctoral standing in the graduate program in Sociology. Seminar 4 hours. Estes

Introduction to the classical perspectives in medical sociology and development of a critical perspective in the field to serve as a foundation for independent and advanced study in medical sociology. SOC BEH SC

208. Social Psychol of Illness & Illness. (3) § W. Prerequisite: Required for graduate students in sociology. Lecture 2 hours. Lab 3 hours. Olesen

The relationship of social class, ethnic identification, group membership, family structure, occupation and life style to health and illness, and therapeutic interaction of laymen and health professionals. SOC BEH SC

209. Sociology of Power. (2-4) § F, W, Sp. Prerequisite: Advanced standing and consent of instructor. Lecture 2-4 hours. Estes

Survey of the classical and contemporary sociological issues in theoretical and empirical work on power; exploration of underlying assumptions and paradigms emerging and reflecting a sociopolitical milieu; students become familiar with literature and debates on power structure research and theory. SOC BEH SC

212A. Sociology Theory. (4) § F, W. Lecture 2 hours. Lab 6 hours. Strauss

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 theory in both its formal and substantive varieties. SOC BEH SC

212B. Sociology Theory. (4) § Sp. Lecture 4 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 theory in both its formal and substantive varieties. SOC BEH SC

213. Participant Observation Studies. (3) § W. Prerequisite: Consent of instructor. Lecture 3 hours. Schatzman

A basic course in the logic and operations of social research in the field. Lectures, readings, and discussion on research strategies; entree, watching, listening, data recording, and analyzing. SOC BEH SC

214A. Field Research. (3) § F. Prerequisite: Doctoral level. Lecture 2 hours. Lab 3 hours. Olesen, J. B. Wood, Schatzman

Sociological perspectives on the dimensions and properties of research in natural social settings. Focus upon developing skills in negotiating entree, in watching, listening, and in recording of data; emphasis upon developing conceptual schema in preparation for analysis. SOC BEH SC

214B. Quantitative Analysis. (3) § W. Prerequisite: Doctoral level. Sociology 214A. Lecture 2 hours. Lab 3 hours. Olesen, J. B. Wood, Schatzman

Examination of modes of analysis applicable to quantitative data; emphasis on dimensions and properties exhibited in student-presented data. SOC BEH SC

214C. Qualitative Analysis. (3) § F, W. Sp. Prerequisite: Doctoral level. Sociology 214A and 214B. Lecture 2 hours. Lab 3 hours. Strauss, J. B. Wood

Qualitative analysis; the development of substantive and formal sociological theory. Emphasis on student-presented data and their conceptualization. SOC BEH SC

216. Comparative Organizations. (3) § F. Prerequisite: Consent of instructor. Lecture 3 hours. Staff

A critical review of classical and recent contributions to the sociology of formal organizations. A variety of types of organizations will be considered, with special emphasis on service organizations. SOC BEH SC

217. Future of the Family Seminar. (3) § Sp. Lecture 2 hours. Lab 3 hours. Staples

Exploration of changing dating, sexual, sex-role, marital, and familial patterns in the United States. Discussion of futuristic models of family life as affected by sociocultural forces. Special emphasis given to changing sex-role behavior as affecting male-female relationships. SOC BEH SC

218. Advanced Topics in Aging. (2-4) § F, W. Sp. Prerequisite: Consent of instructor. Lecture 2-4 hours. Estes, Newcomer

The topics to be analyzed will vary each year with the instructor, but will be focused upon a specific area. SOC BEH SC

219. Social Policy & Aging. (2-4) § W. Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-6 hours. Estes

Critical analysis of major social, economic and political issues of growing old in America. Examination of social policy in the public and private sectors including health, income, and social services. Consideration of prospects for social change and political movements. SOC BEH SC

220. Sociology Seminar. (2-4) § F, W, Sp. Prerequisite: Consent of instructor. Required for graduate students in Sociology Seminar. 2 hours. Lab 0-6 hours. Staff

Doctoral student seminar to discuss methods and problems in current research. Course may be repeated for credit. SOC BEH SC

221A-B-C. Qualifying Examinations. (4-4-4) § A: F, W, Sp: B; F, W, Sp: C: F, W, Sp. Prerequisite: Preparation for qualifying examinations. Open to graduate students in Sociology only. Qualifying examinations for graduate students in sociology are given in three areas: sociological theory, medical sociology, and
special interest. The course will provide for preparation in each area. SOC BEH SC

222. Planning in Human Services. (3) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. 
   C. Harrington, Benjamin
   Examination of trends in planning for the human services, including the role of government 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 BEH SC

223. Sociology of Public Policy. (2-4) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-6 hours. Benjamin
   Introduction to the social construction of policy. Examination of problems in design and implementation of policy, the influence of ideology, social class and interest groups, the role of planning and budgeting processes, and the sociology of expertise. SOC BEH SC

232. Adv Problems in Social Psychol. (2-4) § F W Sp. Prerequisite: Consent of instructor. Seminar 2-4 hours. Staff
   An advanced seminar dealing with theoretical and conceptual problems in various areas of social psychology. Recent developments in theory and concept will be reviewed. SOC BEH SC

234. Health & Aging. (2-4) § F W Sp. Prerequisite: Consent of instructor. Lecture 2-4 hours. H. Lipton
   Examination of the health status of the aged in the United States in light of relevant biological, behavioral, sociocultural, environmental factors. Social, cultural, economic factors affecting organization, financing, and delivery of health care to the aging population will be examined. SOC BEH SC

235. Family Behavior Health Factors. (3) § F W Sp. Prerequisite: Consent of instructor. 
   Graduate standing. Lecture 2 hours. Lab 3 hours.
   Exploration of how marital and family behavior generates mental and physical health problems. Topics to be covered are family violence, child abuse, sexually transmitted diseases, suicide, psychological problems, and the relationship of marital status to morbidity and mortality. SOC BEH SC

236. Race/Class Factors in Hlth Care. (3) § W. Prerequisite: Consent of instructor. Graduate standing. Lecture 2 hours. Lab 3 hours
   Analysis of field work as evaluation method, as applied to health care settings and programs, contrasting this approach with quantitative methods predicated on analysis of outcomes. Conduct of such evaluative research, and relationship with audiences, such as policymakers, analyzed. SOC BEH SC

240. Older Women and Their Health. (2-4) § F. Offered in alternate years. Not offered 1984-85. Seminar 2 hours. Optional project for additional units.
   Olesen, Zones
   Analyzes postmenopausal women's changing social roles and the interaction of actual and perceived role with health. Topics include demographic issues, economic trends, individual social and health status, policy implications for individuals and society. SOC BEH SC

   Olesen
   How sociocultural systems place women in work roles, the implications for their health, their part in illness prevention and care of the sick. Analyzes hidden careers, work and health in developing societies, relationships between work and morbidity-mortality patterns. SOC BEH SC

242. Women's Health: Adv Quant Res. (2-4) § F. Prerequisite: One or more women's health courses and one survey course in social research methods or social epidemiology. Offered in alternate years. Offered 1984-85. Seminar 2 hours. Optional project for additional units.
   Olesen, Zones
   An advanced survey of quantitative research methods in analysis of women's health issues. Will focus on data sources, design types, evaluation methods, data analysis, and proposal and report writing. Exploration of current research controversies. SOC BEH SC

249. Special Studies. (1-8) § F W Sp. Prerequisite: Consent of instructor.
   Student readi
   Ex and lab
   4) §
   Staff
Students select special problems to investigate on an individual or collaborative basis. These studies may be conducted through readings, the collection or analysis of empirical data, or the development of conceptual analysis or of methodologies. SOC BEH SC

Staff 
SOC BEH SC

251. Women's Health: Socio-Cultural. (2-4) § F, W, Sp. Prerequisite: Consent of instructor. Lab 0-6 hours. Seminar 2 hours. Offered in alternate years. Not offered 1984-85. 
Olesen, Lewin 
Exploration of relationship between culture and health for women in non-Western societies. Effects of modernization and migration on utilization of traditional and cosmopolitan health care and on women's roles as will be discussed, and contemporary controversies will be analyzed. SOC BEH SC

252. Women's Health: Socio-Historical. (2-4) W. Prerequisite: Consent of instructor. Lab 0-6 hours. Seminar 2 hours. Offered in alternate years. Not offered 1984-85. 
Olesen, Ruzek 
Sociological analysis of women's health status, roles as providers and patients, and the development of medical ideas about women from a historical perspective. Emphasis on 19th and 20th century developments in industrialized societies. SOC BEH SC

253. Women's Health: Socio-Andrological. (2-4) W. Prerequisite: Consent of instructor. Lab 0-6 hours. Seminar 2 hours. Offered in alternate years. Not offered 1984-85. 
Olesen 
Issues in women's reproduction and sexuality, occupational health, and mental health over the life cycle examined from epidemiological, developmental, interactionist and political economy perspectives. Emphasis on applicability to policy, clinical practice, program evaluation and scientific theory building. SOC BEH SC

Olesen 
Consideration of factors in the emergence of issues in women's health and policy. Perspectives on women as policymakers and the implementation of policy on women's health, participation in care and healing systems and access to training. SOC BEH SC

255. Environmental Sociology. (2-4) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-6 hours. 
Olesen 
Sociological analysis of health-related issues emergent from considerations of housing, occupation, urban contexts. Review of concepts of territoriality, privacy and ecology. Perspectives on social construction of environmental and energy issues and policies. SOC BEH SC

256. Introduction to Survey Research. (3) § F. Prerequisite: Doctoral level. Biostatistics 181 or equivalent. Lecture 3 hours. 
Newcomer 
An introductory course in sample theory, sample development, and methods of survey research. Course will include analysis of appropriateness, cost, and limitations of various methods. The course will provide rudimentary skills for those conducting research and large field surveys. SOC BEH SC

257. Aging & Racial Minorities. (3) § W. Lecture 2 hours. Field work 3 hours. 
Staples 
Emphasis is on aging process among minorities (Blacks, Asians, Hispanics, Native Americans): how different socioeconomic conditions and cultural values affect the social role of the elderly and their health status, and the effects of public policy on aging minorities. SOC BEH SC

Speech and Hearing Science

R. Snyder, Merzenich 
Reading and critical discussion of selected original research papers on the anatomy and physiology of the auditory system. Each level of the auditory nervous system from the periphery to the cortex will be considered in turn. OTOLARYN

211. Instrumentation for Research. (4) § F. Prerequisite: Knowledge of one higher-level computer programming language, and consent of instructor. Lecture 2 hours. Lab 6 hours. Offered in alternate years. Offered 1984-85. 
Staff 
Review of major instrumental approaches to study of speech and hearing, including design and operation of acoustic research equipment, use of specific computer software,
preparation of tissue for histological research, and other approaches to research in speech and auditory physiology. OTOLARYN

212. Speech and Hearing Sciences Sem. (1) § F, W. Sp. Seminar 1 hour. Flower
This seminar series will consist of weekly presentations by the faculty, students, and research personnel of the department, as well as occasional visiting scientists. Topics will cover the range of speech and hearing sciences, including anatomy, physiology, psychophysics, speech, clinical diagnosis, and rehabilitation. OTOLARYN

220. Inner Ear Anatomy. (3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Lab 6 hours. Staff
Consideration of the gross anatomy, histology, and fine structure of the mammalian cochlear and vestibular sense organs. Basic aspects of the phylogenetic and embryologic development of the ear will be included. Lectures, demonstrations, dissections, and student presentations. OTOLARYN

221. Electrophysiology & Audiology. (4) § F. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 3 hours. Gardi and Staff
Review of the development of electrophysiological approaches to studying auditory functions with particular emphasis on auditory-evoked response measurement. Lectures and laboratory exercises will stress equipment design and calibration, data collection, analysis, and interpretation. OTOLARYN

222. Auditory Psychophys & Physiol. (3) § Sp. Lecture 3 hours. Staff
A coordinated coverage of basic auditory function. The physiology of the peripheral auditory system and basic perceptual correlates. Physics of sound, cochlear mechanics and microphonics, VIII nerve physiology, thresholds, masking, pitch, loudness, temporal adaptation, frequency analysis, binaural perception, and processing are included. OTOLARYN

230. Speech Reception Research Sem. (3) § F. Prerequisite: Consent of instructor. Seminar 3 hours. M. White
Consideration of the significant features of the acoustic speech signal; transaction characteristics of the normal and pathological cochleae; and the neural encoding of important features of the speech signal at the eighth nerve and cochlear nucleus. OTOLARYN

231. Speech Production Research Sem. (3) § Sp. Prerequisite: Consent of instructor. Seminar 3 hours. Izdebski
Review of research on respiratory function in speech, phonation physiology, and articulation processes. Measurements and recording techniques of these functions with application to normal and pathological aspects of speech production are considered. OTOLARYN

233. Auditory Psychophysics. (3) § W. Prerequisite: Consent of instructor. Lecture 3 hours. M. W. White
Review of the current literature in psychoacoustics and its relationship to current auditory coding theories. Study of peripheral auditory processing of the speech signal is also included. OTOLARYN

247. Special Studies. (1-3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 1-2 hours. Lab 0-3 hours. Owens
Directed reading and laboratory work in the auditory process and its disorders. OTOLARYN

249. Independent Study. (1-5) § F, W, Sp. Prerequisite: Consent of instructor. Staff
Students and instructor develop jointly a study plan involving tutorials, reading, 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 sciences. OTOLARYN

250. Research. (1-8) § F, W, Sp. Prerequisite: Consent of instructor. Flower, Owens, Merzenich
Research for the Ph.D. dissertation. OTOLARYN

299. Dissertation. (0) § F, W, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff
For graduate students engaged in writing the dissertation for the Ph.D. degree. OTOLARYN

Surgery


Elbert, Trukey, L. Way, V. Richards
Core general clerkship in surgery. Students assigned to wards and clinics at UC, SPGH, VA and C. The application of basic sciences, pathology, radiology, and psychiatry to surgery is emphasized in ward rounds and seminars. SURGERY


T. Hunt, Hohn
Students are senior clerks on wards, in operating rooms at UC, SPGH and VA. Round, seminars focus on physiological approach to surgery. Clinical clerkships in surgical specialties may be taken with prior approval of specialty department and Department of Surgery. SURGERY

Senior clinical clerks participate in clinic, ward and operating room with direct involvement in postoperative and preoperative

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care at UC, SFGH, VA, C, RDMC, VMC and K.
Surgery

140.02. Off-Campus Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Core curriculum in basic sciences and Medicine 110 or Surgery 110 and 111.

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

140.03. General Surgery—PMC. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110.

Russell

Students serve as acting interns on general surgical service; participate in preoperative assessment, interoperative management and postoperative care of patients; participate in outpatient clinics as well as selected physicians' offices; participate in daily ward rounds and teaching conferences. SURGERY


Effeney

Students serve as acting interns on the vascular surgery team, participating in preoperative, intraoperative, and postoperative management of patients, as well as in clinics, rounds, and conferences. SURGERY

140.05. Operable Heart Disease. (1½ per week) Su, F, W, Sp. Prerequisite: Core curriculum in basic sciences and Medicine 110 or Surgery 110 and 111.

UC B. Roe, VA 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

140.06. Emergency Medicine—SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Core curriculum in basic sciences and Medicine 110 or Surgery 110 and 111.

F. Lewis

Four weeks participation on the Emergency Ward at SFGH. Students will work up selected cases, perform minor procedures under supervision, and follow all surgical emergencies as time permits. SURGERY

140.07. Shock & Trauma Research. (1½ per week) Su, F, W, Sp. Prerequisite: Core curriculum in basic sciences and Medicine 110 or Surgery 110 and 111.

Crass

Course involves clinical and laboratory investigation and a detailed study of specific patients with trauma and shock. SURGERY


V. Richards

Students work as interns on Surgical Service; they evaluate general surgical patients preoperatively; work with patients in operating room, assume graduated, increasing responsibility in postoperative management. Rounds and conferences enhance clinical experience; interaction with staff in patient care emphasized. SURGERY

140.09. Trauma Surgery—SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111 and consent of instructor.

Crass

Clinical clerkship in the Trauma Service of the Department of Surgery at SFGH. The student will work at intern-clerk level as an integral part of the service. SURGERY

140.10. Cardiothoracic Surgery. (1½ per week) Su, F, W, Sp. Prerequisite: Medicine 110 or Surgery 110 or 111.

Roe

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

140.11. Burn Care—SFGH. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110.

Meyer

Clinical rotation on a large Burn Center Service. Pathophysiology of thermal injury including pulmonary aspects will be stressed. Students act as integral members of the team and participate directly in patient care. SURGERY


Vasconez, Mathes, Walton

Participation in clinical activities of plastic surgery. Students work on patients and take part in operative procedures, as well as manage the postoperative patient. Exposure to patients with general reconstructive problems, trauma to head and neck, hand surgery, and congenital anomalies. SURGERY


O'Hara

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


Parks, Selivanov

Clerkship offers an "organ systems" approach to critical surgical illness with experience in invasive and noninvasive monitoring and appropriate therapeutic interventions. Course is aimed at providing patient management experience and familiarity with basic science concepts and literature upon which surgical intensive care is based. SURGERY

140.15. Burn Center Clerkship—VAF. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111. Fourth-year students only.

Parks, Selivanov
199. Laboratory Project. (1-5) F, W, Sp. Prerequisite: Consent of instructor. 

Ebert and Staff

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. SURGERY

400. General Surgery Staff Conf. (1½) F, W, Sp. UC Ebert, SFGH Trunkey, VA L. Way

Conferences include 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

450. Clinical Surgery. (1½ per week) Su, F, W, Sp. UC Ebert, SFGH Trunkey, VA L. Way, RDMC Heer, C V. Richards, PMC Russell

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. Senior residents have certain administrative, teaching, and clinical responsibilities. SURGERY

452. Experimental Surgery Laboratory. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 450 and 452 may not be taken concurrently. UC Ebert, SFGH Trunkey, VA 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


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

490. Clinical Surgery--SFHZ (1½ per week) Su, F, W, Sp. SFGH Trunkey

Interns rotate through the general surgical service, including the intensive care unit. Under 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. (1½ 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

Teaching Methodology


Course provides resource information in the form of a systematic overview of educational technology. This information is in-
Urology

Core Clerkship—Surgery 110 includes clinical clerkships in the outpatient clinics and hospitals, assistance at operations, and participation in residents’ seminars.

140.01. Advanced Urology Clerkship—UC. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110.

140.02. Off-Campus Clerkship. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110.

140.03. Advanced Urology Clerkship—VA. (1½ per week) Su, F, W, Sp. Prerequisite: Surgery 110.


Students work as interns on the Urology Service at SFGH. They also attend rounds and scheduled seminars with residents and visiting staff. UROLOGY

170.01. Fundamentals of Urology. (2) F, W, Sp. Prerequisite: Consent of instructor.

199. Laboratory Project. (1-5) F, W, Sp. Prerequisite: Consent of instructor.

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. UROLOGY


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


Course includes experimental investigation in urologic problems. UROLOGY


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


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


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