1989-90 Calendar

Fall Quarter 1989
Fall quarter begins
September 4 Monday
Labor Day*
September 4 Monday
Registration (new & readmitted)
September 14 Thursday
Registration (continuing, in person)
September 15 Friday
Instruction begins
September 18 Monday
Class Instruction ends
November 22 Wednesday
Thanksgiving holiday*
November 23 Thursday &
November 24 Friday
Final examinations
November 27 Monday–
December 1 Friday
Registration
(winter continuing, in person)
November 30 Thursday &
December 1 Friday
Clinical instruction ends
December 1 Friday
Christmas holiday*
December 22 Friday–
December 25 Monday
New Year’s holiday*
December 29 Friday–
January 1 Monday
Fall quarter ends
December 31 Sunday

Winter Quarter 1990
Winter quarter begins
January 1 Monday
Registration (new & readmitted)
January 2 Tuesday
Instruction begins
January 2 Tuesday
Martin Luther King, Jr. Day*
January 15 Monday
President’s Day*
February 19 Monday
Registration
(spring continuing, in person)
March 8 Thursday &
March 9 Friday
Class instruction ends
March 13 Tuesday
Final examinations
March 14 Wednesday–
March 20 Tuesday
Clinical instruction ends
March 20 Tuesday
Spring holiday*
March 23 Friday
Winter quarter ends
March 25 Sunday

Spring Quarter 1990
Spring quarter begins
March 26 Monday
Registration (new & readmitted)
March 26 Monday
Instruction begins
March 26 Monday
Memorial Day*
May 28 Monday
Class instruction ends
June 1 Friday
Final examinations
June 4 Monday–
June 8 Friday
Clinical instruction ends
June 8 Friday
Spring quarter ends
June 17 Sunday

Summer Session
Two 1990
Registration
July 13 Friday
Instruction begins
July 30 Monday
Labor Day*
September 3 Monday
Instruction ends
September 7 Friday
Session ends
September 9 Sunday

Summer Term 1990
Registration
June 15 Friday
Instruction begins
June 18 Monday
Independence Day*
July 4 Wednesday
Labor Day*
September 3 Monday
Instruction ends
September 7 Friday
Summer term ends
September 9 Sunday

*Academic/Administrative holiday.
Note: This schedule does not apply to the Schools of Medicine or Dentistry.
Courses

This chapter is a compendium of the courses of instruction offered by the University of California, San Francisco. Courses are arranged in numerical order under alphabetically listed subject headings. As these headings do not in every case correspond to a department, the responsible department or other instructional unit is indicated at the end of the course description for each course. Abbreviations used for these departments or instructional units are spelled out in the list below. Inquiries about individual courses should be addressed to the indicated department or instructional unit for information that is not included here, nor in the separately published bulletins of the four schools or of the Graduate Division. These bulletins, available from the respective schools or the Graduate Division, indicate, for example, the place of various courses in the different established curricula. Faculty rosters may also be found in the bulletins of the four schools.

Course Description—Course information is arranged in two paragraphs with periods separating items. The first paragraph includes course number, title, units in parentheses, session offered, prerequisite, format and breakdown of hours per week, and instructor in charge. The second paragraph describes the course content, followed by department or other instructional unit.

Course Numbers—All courses are numbered according to the following system: 100 series = upper division professional course, 200 and 300 series = graduate academic course, and 400 series = postdoctoral professional course. The meanings of the second (tens) and first (units) digits vary among the schools. A detailed explanation of course numberings is available from the office of the dean of each school. The symbol § following the units designates a course approved for credit toward a graduate academic degree. Sessions—Su = summer term, SS = summer session, F = fall quarter, W = winter quarter, Sp = spring quarter.

Departments and Other Instructional Units

ANATOMY
Department of Anatomy, School of Medicine.

ANESTHESIA
Department of Anesthesia, School of Medicine.

BIOCHEM
Department of Biochemistry and Biophysics, School of Medicine.

CL PHARM
Division of Clinical Pharmacy, School of Pharmacy.

DENT PUB HLTH
Department of Dental Public Health and Hygiene, School of Dentistry.

DERMATO
Department of Dermatology, School of Medicine.

EPID INTL HLTH
Department of Epidemiology and International Health, School of Medicine.

*Additional courses are offered by the Schools (see Address section) under their programs of Continuing Education.
PHARMACY
Department of Pharmacy, School of Pharmacy.

PHYS THER
Curriculum in Physical Therapy, School of Medicine.

PHYSIOL NURS
Department of Physiological Nursing, School of Nursing.

PHYSIOLOGY
Department of Physiology, School of Medicine.

PSYCHIATRY
Department of Psychiatry, School of Medicine.

RADIOLOGY
Department of Radiology, School of Medicine.

RESTOR DENT
Department of Restorative Dentistry, School of Medicine.

SOC BEH SC
Department of Social and Behavioral Sciences, School of Nursing.

STOMATOLOGY
Department of Stomatology, School of Dentistry.

SURGERY
Department of Surgery, School of Medicine.

UROLOGY
Department of Urology, School of Medicine.

Hospitals

AB
Auburn Hospital, Berkeley.

AS
Auburn State Hospital, Auburn.

C
Children's Hospital of San Francisco, San Francisco.

CHMC
Children's Hospital Medical Center of Northern California, Oakland.

CM
Community Hospital of Sonoma, Santa Rosa.

CMC
Crenshaw Memorial Hospital, Berkeley.

CP
Center for Special Problems, San Francisco.

DCH
Davita Community Hospital, Davis.

FCI
Fresno Community Hospital and Medical Center, Fresno.

FR
French Hospital Medical Center, San Francisco.

GS
Good Samaritan Hospital of Santa Clara Valley, San Jose.

H
Highland General Hospital, Oakland.

K
Kaiser Foundation Hospital, San Francisco.

KSDC
Kaiser Foundation Hospital, Oakland.

KSSF
Kaiser Foundation Hospital, Stockton.

L
Lenterman Army Medical Center, San Francisco.

LPPF
Langley Porter Psychiatric Institute, San Francisco.

M
Maine General Hospital, Greenville.

MHCB
Memorial Hospital Medical Center of Long Beach, Long Beach.

MM
Milpitas Memorial Hospital, San Mateo.

MZ
Mt. Zion Hospital and Medical Center, San Francisco.

NAT
National Medical Center, San Antonio.

NMMC
Naval Regional Medical Center, Oakland.

NS
Napa State Hospital, Napa.

OC
O'Connor Hospital, San Jose.

P
Peralta Hospital, Oakland.

PP
Peninsula Hospital Medical Center, Burlingame.

PMMC
Pacific Medical Center, San Francisco.

RDPC
Ralph K. Davies Medical Center, San Francisco.

RH
Rancho Los Amigos Hospital, Downey.

S
Stanford University Medical Center, Palo Alto.

SCC
San Clara Valley Medical Center, San Jose.

SGH
San Francisco General Hospital Medical Center, San Francisco.

SHH
Sonoma General Hospital, Sonoma.

SM
Stanford Medical Center, Stanford.

SS
San Jose General Hospital, Stockton.

SU
Santa Rosa Memorial Hospital, Santa Rosa.

TS
Sonoma State Hospital, Eldridge.

STC
St. Agnes Hospital and Medical Center, Paso Robles.

STF
St. Francis Memorial Hospital, San Francisco.

SUL
St. Luke's Hospital, San Francisco.

STM
St. Mary's Hospital and Medical Center, San Francisco.

UC
University of California Hospitals and Clinics, San Francisco (includes Long, Moffitt, and Ambulatory Care Center).

UCD
University of California, Davis.

UCI
University of California Irvine Medical Center, Orange.

UCLA
UCLA Center for Health Sciences, Los Angeles.

UCSF
University Hospital, University of California Medical Center, San Francisco.

VA
Veterans Administration Medical Center, San Francisco.

VAF
Veterans Administration Medical Center, Fresno.

VAM
Veterans Administration Medical Center, Martinez.

VAPA
Veterans Administration Medical Center, Palo Alto.

VAST
Veterans Administration Hospital, San Diego.

VMC
Valleymed Medical Center of Fresno, Fresno.
Anatomy

10A. Systemic Regional & Devel Anat. (5) 5 F. Lecture 3 hours. Lab 6 hours.
Sutherland and Staff
The gross structure of the human body is studied by means of dissection, demonstration, X-ray, surface, developmental, and cross-sectional anatomy with special reference to the functional aspects of the structures examined. ANATOMY

10B. Systemic Regional and Devel Anat. (5) 5 W. Lecture 2 hours. Lab 6 hours.
Sutherland and Staff
The gross structure of the human body is studied by means of dissection, demonstration, X-ray, surface, developmental, and cross-sectional anatomy with special reference to the functional aspects of the structures examined. ANATOMY

10C. Systemic Regional & Devel Anat. (5) 5 SS. Lecture 3 hours. Lab 6 hours.
Sutherland and Staff
The gross structure of the human body is studied by means of dissection, demonstration, X-ray, surface, developmental, and cross-sectional anatomy with special reference to the functional aspects of the structures examined. ANATOMY

103. Nervous System: Form & Function. (4-6) 5. Sp. Prerequisite: Consent of instructor required for graduate students. Lecture 4 hours. Lab 3 hours.
H. Rabkin, Stryker and Staff
The structural and functional aspects of the mammalian nervous system studied in lectures, conferences, demonstrations, and laboratories with emphasis on the human nervous system and its organization. Taught for students in the School of Medicine and at an introductory course for graduate students. ANATOMY

103.01. Neuroanatomy. (2) SS. Prerequisite: Completion of course prerequisite 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.
Varoupatos
The structural organization and function of the central nervous system are presented through lectures and laboratory study of models, wet and dry demonstration. Special emphasis accorded to clinical functional correlations. ANATOMY

107. Neuromuscular Physiology. (2) W. Prerequisite: Completion of course work in anatomy and physiology. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 2 hours.
Varoupatos
A study of the physiology of striated muscle and peripheral nerve in relationship to controlling mechanisms within the nervous system. ANATOMY

115. Histology. (5) 5 W. Lecture 2 hours. Lab 3 hours.
Martin and Staff
A study of the microscopic structures of the tissues and organs of the human body by means of lecture, dissection, and microscope slides. Functional aspects of the structures are stressed. Intended for students in the School of Pharmacy. ANATOMY

Lab 3 hours.
Sutherland
A study of the macroscopic structure of the human body by means of lecture and dissection. Functional aspects of the structures are stressed. Intended for students in the School of Pharmacy. ANATOMY

117.01. Gross Anatomy & Embryology. (4) F. Prerequisite: Pre-summer dental standing. Lecture 5 hours. Lab 15 hours.
S. Fisher
The gross structure and developmental anatomy of the thorax and abdominal regions are studied by means of lectures, laboratory exercises, and demonstrations. The functional significance of the structures is emphasized. STOMATOLOGY

117.02. Head & Neck Anatomy. (4) F. Prerequisite: Pre-summer dental standing. Lecture 2 hours. Lab 6 hours.
S. Fisher
The gross anatomy of the head and neck is studied by lectures and dissection. Clinical applications and functions of importance to the dental hygienist are emphasized. STOMATOLOGY

117.03. Neuroanatomy. (2) W. Prerequisite: Dental Hygiene standing. Lecture 1 hour. Lab 3 hours.
H. Rabkin
The structure and function of the nervous system studied by means of lectures, laboratory exercises, and demonstrations. STOMATOLOGY

117.04. Neuroanatomy. (2) W. Prerequisite: Fall-year Dental standing. Lecture 1 hour. Lab 3 hours.
H. Rabkin
The structure and function of the nervous system studied by means of lectures, laboratory exercises, and demonstrations. STOMATOLOGY

118. General Histology. (4-5) 5 F. Lecture 4 hours. Lab 2 hours.
H. Kramer
The microscopic structure of tissues and organs of the body are studied with histopathological considerations. STOMATOLOGY

150.01. Gross & Regional Anat. (1.5 per week) 5 W. 1.5 F. Prerequisite: Program must be approved by department and director. Lecture 1 hour. Lab 3 hours.
Varoupatos
Individually or group dissection: advanced review of gross anatomy. Intended as a block elective course for advanced medical or graduate students. ANATOMY

150.01.01. Gross Anatomy & Embryology. (2.5) F. Prerequisite: Dental Hygiene standing. Lecture 3 hours. Lab 15 hours.
S. Fisher
The gross structure and developmental anatomy of the thorax and abdominal region are studied by means of lectures, laboratory exercises, and demonstration. The functional significance of the structures is emphasized. STOMATOLOGY

156.02. Head & Neck Anatomy. (3) F. Prerequisite: Dental Hygiene standing. Lecture 2 hours. Lab 6 hours.
S. Fisher
The gross anatomy of the head and neck is studied by lectures and dissections. 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.
H. Rabkin
The structure and function of the nervous system studied by means of lectures, laboratory exercises, and demonstrations. STOMATOLOGY

157. Advanced Head & Neck Anatomy. (1-5) 5 F. Prerequisite: General histology, gross anatomy of the head and neck, and oral histology. Lecture 1. Lab 0-12 hours.
Staff
Designated for postgraduate specialty certificate students enrolled in the clinical specialty training programs in the School of Dentistry. Seminar presentations and demonstrations of head and neck anatomy are correlated with their application to clinical dentistry.

157.02. Survey of Congenital Defects. (2) 5. Prerequisite: Consent of instructor. Lecture 2 hours.
M. Hesano
This course is designed to provide physical therapy physicians with information on the more common human congenital defects. Environmental and genetic factors that produce malformations are considered and possible mechanisms discussed. ANATOMY

170.09. Language of Anatomy. (1) 5 W. F. W. Prerequisite: Consent of instructor. Lecture 1 hour.
Aesling
A descriptive and functional anatomy of the human body based on the interpretation of books and journals. ANATOMY

170.02. Clinic Anat through Cross-Section. (2) 5 F. Prerequisite: Anatomy 100. Not open to first-year medical students. Lecture 1 hour. Lab 3 hours.
Aesling
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

198. Supervised Study. (1-5) 5. Prerequisite: Consent of instructor. Lecture 1 hour.
S. Wolff
Librarianship and research directed and reading under supervision of a student of the faculty with the approval of the chairman of the department. ANATOMY

199. Laboratory Project. (1-5) 5. Prerequisite: Consent of instructor. Lecture 2 hours.
S. Wolff
A laboratory research project under direction of a member of the faculty with the approval of the chairman of the department. ANATOMY

201. Radiol Effects on Genes & Chromos. (2) 5. 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 study of radiations of intragenic and intergenic mutations that give insights into the structure of chromosomes and the interactions of radiation with biological material. ANATOMY

202. Organ Culture Methods. (1) 5 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, nutritional substances, and carcinogens. ANATOMY

203. Technique in Cell Biology. (3) 5 F. Prerequisite: Consent of instructor. Lecture 2 hours. Offered in alternate years. Not offered 1989-90.
S. Rosen, Werb
Course introduces the literature and provides training in topics such as lipid, carbohydrate, protein, general enzyme histochemistry, and ultrastructural cytochemistry, immunohistopathology, immunocytochemistry. Lecture 2 hours.

204. Cyto genetic Techniques. (3) 5 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

220. Anatomy Seminar. (1) 5 W. F. W. Prerequisite: Consent of instructor. Lecture 1 hour.
Staff
Student, staff, or guest present selected topics concerning current research in anatomy for critical discussion and discussion. ANATOMY

225. Experimental Neuroanatomy. (5) 5 SS. Prerequisite: Consent of instructor. Lecture 2 hours.
hour. Lab 6 hours. Lecture and lab full time for 2 weeks. Offered in alternate years. Offered 1989-90.
J. LaVall, Batlow, J. LaVall, Bushman
Lecturers and laboratory project on the principles and experimental methods of analyzing the neural organization of the central and peripheral nervous system. Topics include neuroanatomy, axon transport, neural degeneration, immunocytochemistry, autoradiography, electron microscopy, quantitative data acquisition methods, and photomicrography. ANATOMY 141.

230. Developmental Biology. (3) S. Prerequisite: Biochemistry 245 and 246 or consent of instructor. Lecture 3 hours.
Calercio, Pedersen
Principles of development presented with emphasis on cell and molecular research approaches. Topics to be included are early development, cell-cell interactions, and terminal differentiation. Lectures and student discussions of current and classical research approaches. ANATOMY.

231. Devel of Cellular & Molec Biol. (3) S. Prerequisite: Consent of instructor. Lecture 3 hours. Offered in alternate years. Not offered 1989-90.
Calercio
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. Macromol Chimeras & Mosaics. (2) S. Prerequisite: Consent of instructor. Lecture 2 hours. Offered in alternate years. Not offered 1989-90.
Calercio
Course focuses on procedures for producing mammalian chimeras and the use of chimeras in analysis of development. Emphasis on analysis of pathogenesis, cell commitment, differentiation, growth control, neoplasia, germ cells, and reproduction. ANATOMY.

235. Developmental Neurobiology. (1-3) S. Prerequisite: Consent of instructor. Lecture 1-3 hours. Offered every three years. Offered 1988-89.
J. LaVall, M. LaVall, M. LaVall, Reicherdt
Principles involved in the structural and functional development of the nervous system as well as detailed considerations of the development of several specific regions of the mammalian central nervous system. Lectures, student presentations, and discussions of classical and current literature. ANATOMY.

ANATOMY.

273. Biolog Scanning Electron Micros. (1) S. 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) F, W, Sp. Prerequisite: Advanced 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) F, W, Sp. Prerequisite: Advanced 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. (1-6) F, W, Sp. Prerequisite: Consent of instructor. Staff
Training in teaching in a course offered by the Department of Anatomy under the supervision of an instructor in charge. Laboratory teaching, presentation of lecture material, experience in setting up and grading examinations, and participation in course are included. ANATOMY.

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

Anesthesia

110. Anesthesia Core Clerkship. (3) S, F, W. Prerequisite: Medicine 130, 131A-B-C, Physiology 100, Pharmacology 100A-B, and Psychiatry 130.
Staff
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, SF, and all hospitals. ANESTHESIA.

140.01. Advanced Anesthesia Clerkship. (1.5 per week) Sc, F, W, Sp. Prerequisite: Anesthesia 110.
Dresser
Instruction and experience in cardiopulmonary resuscitation, care of the unconscious patient, and treatment of pain problems. Rotation through SFGH, SFU, and VA. Attendance at the teaching conferences of the department. ANESTHESIA.

140.02. Off-Campus Clerkship. (1.5 per week) Sc, F, W, Sp. Prerequisite: Anesthesia 110. R. D. Miller
Clinical clerkships in approved hospitals by special arrangement or approval of the chairperson of the department. ANESTHESIA.

140.03A. Intensive Care Clerkship-SFGH. (1.5 per week) Sc, F, W, Sp. Prerequisite: Anesthesia 110, Medicine 130, and Surgery 130.
Schlobohm, Luce, Katz, Schacter
Clinical clerkship on techniques of intensive care with primary emphasis on respiratory, cardiovascular, and renal pathophysiology. Patient population includes adult and pediatric patients with medical and surgical illness, a significant percentage of whom have been severely traumatized. ANESTHESIA.

140.02B. Intensive Care Clerkship-UC. (1.5 per week) Sc, F, W, Sp. Prerequisite: Anesthesia 110, Medicine 110, and Surgery 110.
Cohen, Mathay
Clinical clerkship on techniques of intensive care with primary emphasis on respiratory, cardiovascular, and renal pathophysiology. Patient population includes adult and pediatric patients with medical and surgical illnesses, a significant percentage of whom have undergone cardiac surgery. ANESTHESIA.

140.04. Anesthesia Obstetrical Clerkship. (1.5 per week) Sc, F, W, Sp. Prerequisite: Anesthesia 110, Obstetrics and Gynecology 110, and consent of instructor. R. Miller
Course covers anesthesia and analgesia for vaginal delivery and cesarean section. Emphasis is placed on each of the techniques and drugs on normal physiologic changes in labor and delivery, placental transfer of drugs, and resuscitation of the newborn. ANESTHESIA.

140.05. Anesthesia for Ambulatory Surgery. (1.5 per week) Sc, F, W, Sp. Prerequisite: Anesthesia 110.
Bozette, Glauser
Introduces the medical student to the operation of and the anesthetic management of patients in a hospital-based ambulatory surgery facility. Students work closely with anesthesiology faculty and residents and assume a greater role in managing the anesthetic for the unit's patients. ANESTHESIA.

150.01. Anesthesia Research Project. (1.5 per week) Sc, F, W, Sp. Prerequisite: Third- or fourth-year status and consent of instructor. Glaser
Students conduct research projects under guidance of faculty members. Projects must be approved by instructor involved in supervising student. Students may initiate or become involved in established research programs under faculty guidance. ANESTHESIA.

160.01. Basic CPR. (0.5) F, W, Sp. Lecture 1 hour. Lab 2 hours.
Cohen, Caballero, Strong
Two-week CPR skills course training students in basic life support techniques, cardiac compression and ventilation, management of airway obstruction, and assessment of need to initiate or terminate CPR. Sessions include presentations by Anesthesiology faculty and skills practice for students. ANESTHESIA.

170. General Anesthesiology. (6) S. Prerequisite: Intern course and written exam. Cline, Hamilton and Staff
Course covers the systemic effects of the various inhaled, intravenous, and local anesthetics and the administration of general anesthetic agents. ANESTHESIA.

190. Laboratory Project. (1-5) Sc, 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.

400. Anesthesia Staff Conference. (2) F, W, Sp. R. D. Miller
Course includes didactic lectures in sciences basic to the specialty of anesthesiology, as well as case reviews, clinical discussions, and seminars on current medical literature in anesthesiology. ANESTHESIA.

450. Anesthesia Clinical Work. (1.5 per week) Sc, F, W, Sp. Required during first year of residency and during either second or third year. R. D. Miller
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.

660. Special Assignment. (1.5 per week) Sc, F, W, Sp. Effective 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 related to difficult cases. ANESTHESIA.

Anthropology

200. Off-Campus Study. (0) F, W, Sp. Prerequisite: Approval of 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 interdepartmental exchange or consortium program. EPD INTL, HLTH.
205A-B. Intro to Sociocultural Aspects, (3-4, 3-4) F, W. Prerequisite: Consent of instructor. Lecture 1 hour, plus 2 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.

M. Clark, Justice
Seminar in the theory and methods 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) F, W. Prerequisite: Consent of instructor. Lecture 3 hours, plus 2 hours independent study for 4 units. Open only to first-year students in the intercampus Ph.D. Program in Medical Anthropology. Required for students in the UCSF Ph.D. Program in Medical Anthropology.

P. Dunn, Staff
Survey of the biomedical area of medical anthropology, anthropology in relationships to biomedicine and human biology. EPID INTL. HLTH

211A-B-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 second-year students in the intercampus Ph.D. Program in Medical Anthropology.

Abhon, Mitaansu, Clark
Fundamentals of anthropological research design and methods. Lecture, readings and field assignments. EPID INTL. HLTH


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


Abhon
Review of theoretical and methodological literature on anthropological life histories and the use of life history materials. Clinic life histories and newer works will be read and examined for the methodological and analysis utilized. EPID INTL. HLTH


Nygloffer
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


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

218. Computer Methods, (3-4) F. Lecture 3 hours. Lab 0-3 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, keypunching, use of SPSS and IRMOD program packages and interpretation of computer output. EPID INTL. HLTH


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. Generalized lecture series in the study of anthropology. Lecture 3 hours.

M. Clark
A review of the history and development of anthropology and its major theoretical approaches. Lectures, discussions, and readings focus on major themes, trends, personalities, and present concerns in the field. EPID INTL. HLTH

225. Contemporary Issues, (2-3) 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 contemporary and current social issues in medical anthropology. Topics include: societal impact of high technology medicine; abortion, euthanasia, and the right to life; status of research on the ecology of mental disorders; advocacy, praxis and the social scientist. EPID INTL. HLTH


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

227. Community Resources for Health & Mental Health, (3-3) F. Seminar 2-3 hours. Variable field observations.

Abhon
This course will survey the range and categories of indigenous community resources for health and mental health. Informal and formal community organizations, therapeutic self-help groups, voluntary agencies, and alternative healing modalities will be analyzed for their functions as health and mental health resources. EPID INTL. HLTH

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

Staff
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 mental 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
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 healing 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.

Staff
Cross-cultural approaches to roles, statuses, and problems of aged populations. Cultural factors influencing the condition and adaptation of the aged in different societies. 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.

Staff
Symbolic expressive behavior is considered from psychocultural life-cycles and psychocultural perspectives. Variations in psychocultural systems are analyzed: psychological texts, dreams, folklore, myths, religious rituals, altered states of consciousness, and healing procedures. EPID INTL. HLTH

235. Cross-Cultural Aspects of Childhood, (3) F. Prerequisite: Consent of instructor. Open to students in medicine, nursing and graduate departments. Lecture 2 hours, plus research paper.

Mintzes, Bartocci
Review of child development, child rearing and family dynamics in various non-Western cultures and in selected ethnic subcultures of the United States; from historical, psychological, and anthropological perspectives. EPID INTL. HLTH

239. Comparative Family Systems, (3) F, W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 3 hours independent study.

Abhon
Anthropological approaches to family study. Structure and dynamics of varying family systems examined, emphasizing changing family forms and ways family life styles and values contribute to modes of coping with areas, illness, and crises. EPID INTL. HLTH


Keyser-Jones
Course covers developmental theory and research in aging. Emphasis is on anthropological and sociological models, but biological and psychological perspectives are included. Current issues in aging with emphasis on implications for health care are discussed. EPID INTL. HLTH

246. Comparative Medical Systems, (2-3) F. Prerequisite: Consent of instructor. Lecture 2-3 hours.

Staff
Popular medicine in the Third World with emphasis on how people use indigenous and biomedical health care resources. Theories of health and disease, social and symbolic dimensions of healing, and relevance of traditional medicine for health maintenance and primary health care. EPID INTL. HLTH

247. Contemporary American Society, (3) F, W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 3 hours independent study.

Abhon
A review of anthropologically oriented research on basic American values, social organization, and ethnicity. Emphasis is on the socio-economic diversity and changing institutions, values, and life styles. EPID INTL. HLTH


Staff
Groups of two or more collaborate on special problems in anthropology under the direction of the faculty. Students may select areas related to their long-term interests and future research programs. EPID INTL. HLTH

249. Directed Reading, (1-3) F, W, Sp. Prerequisite: Consent of instructor.

Staff
Independent study. EPID INTL. HLTH
Biotistics

171. Introduction to Linear Algebra. (3) F. Prerequisite: One year of college-level mathematics. Lecture 3 hours. Offered in alternate years; offered 1989-90

Biolase

This course provides a general introduction to linear algebra. The main topics to be covered are: linear equations, matrices, vector spaces, linear transformations, determinants, eigenvalues and eigenvectors. Understanding of the contents of these topics will be emphasized; understanding of proofs will not be emphasized. The course can be helpful to people planning to take courses in linear statistical methods or applied linear algebraic methods, as well as to students who may need to use elementary statistics in their work, not as preparation for 200-level courses. EPID INTL HLTH

185A. Probability & Statistics. (6) W. Prerequisite: Working knowledge of algebra. Lecture 4 hours.

Biostistics 185A and 181B are conceptually oriented introductory courses that prepare the students for 200-level course 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. (6) F. Prerequisite: Completion of Biostatistics 185A; working knowledge of algebra. Lecture 4 hours.

Biology

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

187. Statistical Theory & Practice. (5) F. Prerequisite: Previous course in introductory statistics. Lecture 6 hours. Lab 2 hours.

Mathematics

Review of basic statistical theory, sampling, descriptive statistics, and probability. Presentation of confidence intervals, hypothesis testing, one- and two-factor analysis of variance, correlation, simple linear regression, and chi-square tests. A preparation for more advanced work. EPID INTL HLTH

191. Clinical Trials & Life Tables. (3) F. Prerequisite: Biostatistics 185 or equivalent or permission of the instructor. Lecture 3 hours. Offered in alternate years. Not offered 1989-90.

Hausk

Will cover the design, operation, and analysis of clinical trials. Specific topics will include: basic trial designs, methods for treatment assignments, sample size determination, methods for the analysis of life tables. EPID INTL HLTH

197. Selected Topics. (2 or 3) F. W. Pr. Lecture 2 or 3 hours, lab 0 or 5 hours.

Staff

Course will cover topics such as nonparametric methods, regression, and analysis of variance, and analysis of discrete data. EPID INTL HLTH

198. Supervised Study. (1-5) F. W. F. W. S. Pr. 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) F. Prerequisite: Biostatistics 185A-B or Biostatistics 187 or permission of instructor. Lecture 3 hours.

Hausk

Course will focus on data analysis of studies in which summary statistics are rates and proportions. Topics include sample size, measures of association, chi-square tests, methods for matched and stratified data, and introduction to multivariate methodology (linear and log-linear analysis). EPID INTL HLTH

205. Multivariate Methods for Discrete Data. (3) F. Prerequisite: Biostatistics 185A-B or Biostatistics 187 or permission of instructor; familiarity with chi-square tests. EPID INTL HLTH

Nenhaus, Hausk

Course covers multivariate methods for analysis of discrete data. The major topics will be logistic regression and log-linear analysis. Other topics such as Poisson regression, quasi-chole tests will be covered. Time and interest. Emphasis will be on appropriate use of methods and interpretation of results. EPID INTL HLTH

210A. Regression Analysis & ANOVA. (4) W. Prerequisite: Biostatistics 185A-B or Biostatistics 187 or equivalent. Lecture 3 hours. Lab 3 hours.

S. Paul

Course covers the uses of multivariate regression techniques, focusing on the choice of technique and interpretation of results rather than on mathematical developments of the methods. Design of experiments is stressed with appropriate emphasis on power analysis. EPID INTL HLTH

210B. Regression Analysis & ANOVA. (4) F. Prerequisite: Biostatistics 185A-B or Biostatistics 210A or Biostatistics 187 or equivalent. Lecture 3 hours. Lab 3 hours.

S. Paul

This course uses multivariate regression techniques, focusing on the choice of technique and interpretation of results rather than on mathematical developments of the methods. Design of experiments is stressed with appropriate emphasis on power analysis. EPID INTL HLTH

210C. Multivariate Analysis & ANOVA. (4) F. Prerequisite: Biostatistics 185A-B or Biostatistics 210A or Biostatistics 187 or equivalent. Lecture 3 hours. Lab 3 hours.

S. Paul

This course covers the uses of multivariate regression techniques, focusing on the choice of technique and interpretation of results rather than on mathematical developments of the methods. Design of experiments is stressed with appropriate emphasis on power analysis. EPID INTL HLTH

220A. Multivariate Analysis & ANOVA. (4) F. Prerequisite: Biostatistics 185A-B or Biostatistics 210A or Biostatistics 187 or equivalent. Lecture 3 hours. Lab 3 hours.

S. Paul

This course covers the uses of multivariate regression techniques, focusing on the choice of technique and interpretation of results rather than on mathematical developments of the methods. Design of experiments is stressed with appropriate emphasis on power analysis. EPID INTL HLTH

220B. Multivariate Analysis & ANOVA. (4) F. Prerequisite: Biostatistics 185A-B or Biostatistics 210A or Biostatistics 187 or equivalent. Lecture 3 hours. Lab 3 hours.

S. Paul

This course covers the uses of multivariate regression techniques, focusing on the choice of technique and interpretation of results rather than on mathematical developments of the methods. Design of experiments is stressed with appropriate emphasis on power analysis. EPID INTL HLTH

This course combines the material and approach of Biostatistics 210A. Topics include analysis of variance and covariance (primarily linear regression), repeated measures analysis of variance, EPID INTL HLTH

231. Multivariate Analysis. (3) F. Prerequisite: Biostatistics 210A and 210B or equivalent. Lecture 3 hours. Lab 3 hours. Offered in alternate years. Offered Fall 1999.

Nenhaus

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

233. Selected Topics. (2 or 3) F. W. Pr. Lecture 2 or 3 hours, lab 0 or 3 hours.

Staff

Course will cover topics such as statistical methods for failure time data, time series, statistical methods for epidemiology. EPID INTL HLTH

250. Research. (1-8) F. W. S. Pr. Staff

EPID INTL HLTH

297. Special Study. (1-3) F. W. S. Conference 1-3 hours.

Staff

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

Cell Biology

215. Laboratory Rotation. (3) F. W. S. Prerequisite: Consent of instructor. Lab 9 hours.

Staff

A laboratory rotation course for students planning to specialize in cell biology research. BIOCHEM

245. Cell and Developmental Biology. (3) W. Prerequisite: Calculus, physical chemistry, biological chemistry, and an advanced course in biology are highly desirable. Lecture 3 hours.

Gumbiner

Modern aspects of the biochemical basis of cell biology and development will be examined with emphasis on spatial organization and morphogenesis. BIOCHEM

247. Specialized Topics in Cell Biology. (3) F. W. W. Pr. Prerequisite: Cell Biology 245. Lecture 2 hours.

Staff

Topics in Cell Biology will be discussed: a tutorial format, with student presentation of papers. The goals are an in-depth study of one area of cell biology, and critical reading of the scientific literature. BIOCHEM

466
Chemistry

112. Intro to Organic Chemistry. (3) F. Prerequisite: Completion of 8 units of organic chemistry. Lecture 1 hour. Lab 4 hours.

Craig
Survey of basic organic chemistry—structure and reactivity; an introductory study of the functional groups, stereochemistry, spectrosocopy, and reactions of the major organic classes of compounds, including aromatic compounds. PHARM CHEM

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

Ketcham, Craig
A continuation of the study of compounds of carbon including some aromatic, hydrocarbon, 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.

Shahar
Elementary physical chemistry with emphasis on thermodynamics. PHARM CHEM

116. Physical Chemistry. (5) W. Prerequisite: Chemistry 115 or equivalent. Lecture 3 hours. Conference and demonstration 1 hour.

T. James
Elementary physical chemistry with emphasis on chemical kinetics. PHARM CHEM

117. Organic Chemistry Laboratory. (5) Sp. Prerequisite: Chemistry 112 or passing score in Chemistry 112 equivalency examination. Chemistry 113 or concurrent enrollment in Chemistry 113, or consent of instructor. Lecture 1 hour. Lab 4 hours.

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

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

Kutter
Selected topics at an introductory level, which vary from year to year. Past topics included structure of macromolecules, quantum chemistry, and spectroscopy. PHARM CHEM

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

Kutter
Laboratory exercises in spectroscopy. PHARM CHEM

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

Kahl
A study of the reactions of organic compounds by applying a system of qualitative analysis to the determining characteristics of groups. PHARM CHEM


Cashman
Group studies in selected topics in chemistry. 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 chairman 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 chairman of the department. PHARM CHEM


Oppenheimer
A study of the detailed processes associated with organic reactions. PHARM CHEM

203. Applied Kinetics. (3) Sp. Prerequisite: A course in advanced organic chemistry or consent of instructor. Lecture 3 hours.

Cashman, Santti, Fachick
The course will consist of one unit of basic chemistry kinetics, one unit of organic chemical kinetics, and one unit of enzyme kinetics. PHARM CHEM

205. Advances in Synthetic Methods. (2) F. Chemistry 113 and 165 or equivalent. Lecture 2 hours.

Craig
Recent advances in synthetic methods, comprising specific oxidizing agents, specific reducing agents, and other specific reagents. PHARM CHEM

208. Advanced Organic Chemistry. (3) Sp. Prerequisite: Chemistry 113 and 165 or equivalent. Lecture 3 hours.

Craig, Whitney
Terpenes and steroids. Occurrence, chemistry, stereochemistry and structure function relationships of natural products such as coumarins, fat-soluble vitamins and sterols, and their precursors. PHARM CHEM

209. Chemistry of Heterocyclics. (3) Sp. Prerequisite: Chemistry 113 and 165 or equivalent. Lecture 3 hours.

Craig, Kenyon
A survey of the main nitrogen, oxygen, and sulfur-containing heterocycles. PHARM CHEM

210. Advanced Physical Chemistry. (4) W. Prerequisite: Two quarters of physical chemistry or consent of instructor. Lecture 4 hours.

DBR
Molecular thermodynamics. PHARM CHEM

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

Rollman
Quantum mechanics and applications to molecular problems. PHARM CHEM

263. Biophysical Chemistry. (3) Sp. Prerequisite: Chemistry 260 or consent of instructor. Lecture 3 hours.

Shaffer
Basic principles of biophysical chemistry. Properties of biomolecules and macromolecules, and physical principles of experimental methods including scattering, hydrodynamics, adsorption, gels, chromatography. PHARM CHEM

264. Advanced Statistical Mechanics & Molecular Mechanics. (2) Sp. Prerequisite: Chem 260 or consent of instructor. Lecture 2 hours. Offered in alternate years. Offered 1989-90.

DBR, Rollman, Shaffer
Advanced aspects of statistical mechanics and molecular mechanics; topics covered vary from year to year. PHARM CHEM

Clinical Dentistry


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

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.

Koo, Kapuni
Orientation to selected areas of medical practice, the clinical evaluation and comparison of drugs used in these areas, and the bio-pharmacokinetics 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. Hart, A. F. Wong
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.

S. Dong, S. Staug
Continuation of Clinical Pharmacy 131. CL PHARM

133. Nutrition. (3) Sp. Prerequisite: Third-year standing. Lecture 3 hours.

McSweeney
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. Topics in Pharmacy Administration. (2) Sp. Prerequisite: Third- or fourth-year standing. Lecture 2 hours.

Kishl
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

135A. Drug Information Orientation. (1.5) Su, F, W, Sp. Prerequisite: Third-year standing. Concurrent or subsequent enrollment in Clinical Pharmacy 130, 131 or 132.

L. Hart
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

135B. Drug Information Orientation. (0.5) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 135A.

L. Hart
Continuation of Clinical Pharmacy 135A. CL PHARM

148A. Inpatient Clinical Clerkship. (3) Su, F, W. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination. Clinic 40 hours per week for six weeks.

Fishbeyn and Staff
149. Ambulatory Externship/Clinical Clerkship. (3:3) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination.

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

149.02A. Ambulatory Externship/Clinical Clerkship. (3:3) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and Clinical Pharmacy 130 series comprehensive examination.

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

149.03A. Inpatient Clinical Clerkship—UIC.

149.03A. Inpatient Clinical Clerkship—UIC. (5) F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year courses and 90 hours of clinical work and comprehensive examination. CL PHARM

Sauer and Staff
Supervised clinical pharmacy experience in an inpatient setting. Students develop and explore their roles in an interdisciplinary health care team, taking medication histories, monitor drug therapy, provide patient education, and research patients’ specific drug information questions. CL PHARM
175.03. Infectious Diseases—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 140A or 149A and 149B. Consent of instructor.

Guglielmo
Students review Infectious Disease Service therapeutics, consultation and evaluation of patients' response to recommended therapy 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 unit. CL PHARM.


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


R. Levin
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) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 140A or 149A and 149B. Consent of instructor.

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


Winter, Cohen
Students obtain interview, evaluate, drug therapy, interact with patients in acute phases of psychiatric disorders, accompany unit pharmacist to orient, attend interdisciplinary team conferences, and make specific comments on drug therapy. CL PHARM.

175.25. Impotent Medicine—VA. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 160A or 149A and 149B. Consent of instructor.

Winter, Körneman 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.

175.26. Infectious Diseases—SFCHL. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 140A or 149B and consent of instructor.

Kapaulen, Mills
Students review with SFCHL Infectious Disease Consultation Service; evaluate antibiotic selection and monitor patients' therapy for efficacy and toxicity; serve as drug consultants to the medical staff on the service. (A special project relating to some aspect of infectious diseases is to be completed.) CL PHARM.

175.27. Burn Unit—ST—IP. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, and 132 and consent of instructor.

Winter, Dumas, Jansen
Students work in Burn Unit Satellite, monitoring patients' wound care, antibiotic therapy and drug serum levels, renal function, nutritional status and pain management. Student is involved with patient from surgical intervention through rehabilitation. CL PHARM.


Winter, Olsen
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.

175.31. Clinical Pharmacology—GS. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 140A or 149A and 149B. Consent of instructor.

Winter, Kondo
Students participate in the activities of the Divisions 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. Impotent Family Practice—SFCHL. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 140A or 149B. Consent of instructor.

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

175.34. Psychopharmacology—AS. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 140A or 149B and consent of instructor.

Winter, Raleigh, O'Brien
Provides students opportunity to follow patients from admission until home on treatment unit. Initial plans for prescribing medication, acute illness, and in all cases, resolution of psychiatric symptoms will be observed by student. CL PHARM.

175.37. Impotent Psychiatry—VA. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 140A or 149B. Consent of instructor.

Winter, Boffin and Staff
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 in-service programs to psychiatric staff. CL PHARM.


Winter, Jacobs
Work on oncology unit monitoring patients on chemotherapy, nutrition support, pain control, and antibiotic therapy. Gain in-depth knowledge of role of clinical pharmacists in a private hospital oncology unit. CL PHARM.

175.40. Thyroid—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 160A or 149A and 149B. Consent of instructor.

Doing
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.


McCurt
Experience in various subspecialty areas in the Dermatology Clinic. Students conduct 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. Obs-Gyn—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 140A 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 physicians on 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 140A or 149A and 149B. Consent of instructor.

M. Kimble
Students participate in the activities of the Diabetes Clinic, involving counseling, 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.

175.45. Anticoagulation—UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 140A 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) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 140A or 149A and 149B. Consent of instructor.

A. L. Leeds
Students participate in the 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 140A or 149A and 149B. Consent of instructor.

Winter, Letholtz
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.


Winter, Kamal, Obros
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.
Clinical Pharmacy

175.63. Sunset Mental Hills Clin Clshlp. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 148A (1st half term) Consent of instructor. Winter, T. Wong, S. Kaufman, Bernstein, Beker Study with the clinical pharmacist to evaluate psychiatric patients' response to drug therapy, and present consultations reviewing overall patient therapy and management in weekly seminars. CL PHARM

175.64. Haigh heroin Detox Unit Clshlp. (1-8) Su, W. Consent of instructor. Winter, Inaba, Hayashi Students work as co-therapists under the supervision of the clinical pharmacist and physicians in developing individual therapy plans for drug detoxification. Where needed, students develop detailed drug information reports appropriate to specific patient care. CL PHARM

175.65. Montague Pharmacy Clshlp. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, Schiedermann, Aruzavo, Stein-Larson Practical experience in a hospital-based community pharmacy offering progressive patient-oriented services, including drug monitoring, establishment and maintenance of medical profiles, patient counseling, dispensing, and in-service education. CL PHARM

175.66. Senior Medication Education Prog. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 130, 121 and 131. Consent of instructor. Winter, L. Eng Students provide patient education and consultation to senior and special patients. Students will be able to utilize their skills, knowledge, and in-service training to prevent and intervene in drug misuse problems. CL PHARM

175.70. Skilled Nursing Facility Clshlp. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor. Winter, Nico, Rhodes, Pickle 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 systems, and researching drug information. Special project required. Consent of instructor. CL PHARM

175.79. Home Care Services. (1-8) S1T, S2T, Su, F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year required coursework. Consent of instructor. Winter, Alexander Students participate in Home Health Care Services, including fluid coordinating, patient monitoring, multidisciplinary meetings, interacting with nurses in the home setting, patients both pre- and post-discharge and with physicians in their office setting to become familiar with all aspects of home specialty care. CL PHARM


175.81. IV Additives Clerkshlp-A. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, Koerner, Wong, and Staff An introduction to the administrative, professional and technical aspects of establishing and maintaining IV additive services. Students will participate in workshops and conferences. CL PHARM

175.83. IV Additives & Unit Dose-VAM. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, Ehrb, Carr, Lopez, J. Gee Students participate in centralized IV administration and unit-dose systems of distribution, with involvement in the decentralized clinical territorials including patient profile review. CL PHARM

175.84. Drug Utilization Review-VAM. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor. Winter, Ehrb, J. Gee Students participate in establishing and presenting the protocol for a drug utilization review. Winter, Ehrb, J. Gee Students will complete the study during the rotation, and present results to the physicians and other disciplines involved. CL PHARM

175.87. Drug Utilization Review-UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor. McCart


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

175.93. Cost Control & Qty Assurance. (1-8) Su, F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Winter, M. Johnson, Pardelford 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 resources. CL PHARM

175.94. Drug Information-UC. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor. Winter, Tao Os Participate in activities of drug information service, including answering drug-related questions, writing a newsletter and drug review. Work under supervision of the director for drug information. CL PHARM

175.99. Clinical Pharmacy Practice. (0-8) Su, F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year required coursework and consent of instructor. Winter

175.101. Nephrology-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A. Consent of instructor. Winter

175.102. Pulmonary Medicine-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A. Consent of instructor. Winter

175.103. Obstetrical Care-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A. Consent of instructor. Winter

175.104. Pediatrics-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A.

D. Adler and Staff

Students participate in the activities of the Pediatric 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 telephonic consults. CL PHARM

175.105. Psychiatry-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A.

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

175.106. Anticoagulation-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A. Consent of instructor.

Weltber and Staff

Students participate in the services of the anticoagulation clinic at University Hospital under the guidance of a clinical pharmacist. CL PHARM

175.107. Hematology-Oncology-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A.

D. Adler, P. Lee

Students participate in the activities of the Hematology-Oncology Consultation Service. Activities include review of patients' charts, monitoring patients' response to drug therapy, attendance at conferences, seminars, rounds and clinics, participation in therapeutic consultations and a special project. CL PHARM

175.108. Hypertension-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A. Consent of instructor. Weltber and Staff

This hypertensive clerkship is an outpatient, six-week elective requiring students to be continuously involved in one clinic day per week, as well as in one student-preceptor conference per week. CL PHARM

175.109. IV Additives & Fluid Ther-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A.

D. Adler and Staff

Students participate in the activities of the Intravenous Additive Service at University Hospital. A special project will be required, the subject of which shall be chosen by the student, with the consent of the preceptor. CL PHARM

175.110. Poison Information-UCD. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A.

Managers and Staff

Students participate in the services provided by the Poison Information Center for San Diego County, including reviewing calls, collecting data, preparing reports, and seminars for the public and various school groups. CL PHARM
Participation in activities of Burn Units involving patient drug therapy monitoring, developing antibiograms, teaching drug therapy, educating nurses and patients, observing surgical and burn care procedures, conferences, seminars, and staff support conferences. Pharmacy conferences and special project assignments. CL PHARM

186.59. Medical Specialties—UCSD. (1-8) F, W. Sp. Prerequisite: Clinical Pharmacy 148A or 149. 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—MHLB. (1-8) W, Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor. Shimomura, Diamant, Towne. General orientation to the major frequently occurring diseases of oncology and hematology. Emphasis on developing knowledge of chemical-agnostic 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—MHLB. (1-8) Su, F, W. Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor. Shimomura, Ambrose. Participation in all aspects of clinical pharmacokinetics services 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. Internal Medicine—MHLB. (1-8) W, Sp. Prerequisite: Clinical Pharmacy 148A and consent of instructor. Shimomura, R. Cook. Participation in all aspects of hepatology and hepatitis guidelines, which involve dosage adjustment, clinical assessment, data collection, medical audit. Students learn about management of patients with hepato-pancreatic disorders through conferences, selected readings and clinical participation. CL PHARM

187.04. Pediatrics—MHLB. (1-8) F, W. Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor. Shimomura, Hidding, Full, Rivers. Participation in patient care rounds, monitoring care presentations, pharmacologic evaluations, literature research, and CPIMs 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, Long. Active involvement with patient and staff in acute care mental health facility. Students interview, interact with, and monitor patients. Thorough background into various forms of mental disorders, treatments and role of pharmacists will be presented. CL PHARM

187.06. Pediatrics—UCI. (1-8) W, Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor. Shimomura, Zenk. Students participate in activities of neonatal care unit and infant pediatrics, orientation, patient rounds, attending rounds and conferences. Emphasis will be on understanding pediatric medicolegal and immunology under supervision of pediatric clinical pharmacist and pediatrician. CL PHARM

187.07. Ophthalmology—UCLA. (1-8) W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Shimomura, S. Gardiner. Students participate in the activities of the John Stein Eye Institute, which includes 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

187.08. Emergency Room—UCI. (1-8) F, W. Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Shimomura, M. 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 arrest. CL PHARM

187.09. Fairview State Hospital Clinical. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and Consent of instructor. Shimomura, Shaffer. Students observe and participate in activities of the pharmacy and development of services at the hospital. Emphasis is on diagnosis and management of neuropsychiatric and genetic diseases such as winter 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 appropriate skills and knowledge of the role of the consultant pharmacist and learn how to adjust drug therapy and dosages for geriatric patients. CL PHARM

187.11. Medicine at La Habra Com Hosp. (1-8) F, W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Shimomura, Elyyama, Levesque. Students participate in rounds with clinical pharmacists. They are involved in monitoring TIN solutions, screening patients with positive culture results to assure appropriate antimicrobial selection and dosage, adjusting serum levels of labeled agents. CL PHARM

187.20. Psychopharmacology—Park. (1-8) F, W. Sp. Prerequisite: Clinical Pharmacy 130, 121, 132 and consent of instructor. Shimomura, Landa. Students exposed to psychopharmacology and participate in all pharmacology 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

187.21. Psychiatric Intercommunity Clin. Pharmacokinetics. (1-8) Su, F, W. Sp. Shimomura, Zetiehl. Students acquire the basic knowledge in applied pharmacokinetics necessary to provide consultation assistance to the physicians in developing an appropriate drug dosing regimen. Emphasis will be placed on integrating knowledge of patients’ problems with the knowledge of drug’s kinetic and pharmacologic properties. CL PHARM

187.22. Home Care—Pharm Enterprises Inc. (1-8) F, W. Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor. Shimomura, Manchester, Henry. Students round with health care team in houses, extended care facilities, and homes. Involved with monitoring and parenteral nutrition, chemotherapy, pain management, anesthetic therapy, and related services for home care patient. CL PHARM

187.61. Foster Infusion Care. (1-8) Su, F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year required coursework. Shimomura, Campbell. Students will be exposed to various aspects of a home care pharmacy including pre-discharge patient assessment, post-discharge training and education, manufacturing of parenteral solutions and home delivery, and patient follow-up visits. CL PHARM

187.65. PHP-HMO Clinical Pharmacy Clerkship. (1-8) F, W. Sp. Prerequisite: Completion of all first-, second-, and third-year required coursework. Shimomura, Giambjorno, Poesed. Students participate in providing clinical pharmacy services in an HMO setting. Activities include attending individual patient rounds, providing clinical services to ambulatory patients and providing information and education classes and preparing pharmacy and therapeutic committee drug reviews. CL PHARM

187.80. Drug Information—MHLB. (1-8) F, W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Shimomura, Towne, Schweigert. 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 communications. 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, pre-filled syringe programs, home hyperalimentation and piggyback. CL PHARM

187.82. Drug Information—UCLA. (1-8) W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Shimomura, Vrabie. An on-line experience in 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 provided via the MSLS. CL PHARM

187.83. Additives—UCI. (1-8) W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Shimomura, Casselman. Clerkship provides an opportunity for students to develop and obtain skills relating to all areas of a central IV additive service. Students will make routine case presentations regarding patients receiving different types of chemotherapy, including parenteral nutrition. CL PHARM

188.01. Oncology—UCD. (1-8) Su, F, W, Sp. Prerequisite: Successful completion of all first-, second-, and third-year course work and consent of instructor. Sauer and Staff. A supervised clinical pharmacy experience in inpatient and outpatient settings which allows students to develop skills in clinical pharmacy settings involved with oncology practice. Through observation and performance, students will develop and explore their roles as clinical pharmacists. CL PHARM

188.02. Psychiatric Medicine—UCI. (1-8) Su, F, W. Sp. Prerequisite: Successful completion of all first-, second-, and third-year course work. Clinical Pharmacy 148 or 149 and consent of instructor. Sauer and Staff. Students participate on the UCD Medical Center inpatient acute care psychiatric ward. Activities

Clinical Pharmacy

Clinical Pharmacy

Clinical Pharmacy

Clinical Pharmacy
Clinical Pharmacy

include monitoring and intervening patients, par- ticipation in team medical rounds, conferences, and pharmacy utilization classes. Students will also be present in all aspects of the pharmacy service and will be available for consultation or advice to both patients and providers in the clinic. CR. PHARM


Sweer and Staff

Students participate in patient, provider, and consultant activities. These activities include monitoring patients and assessing patient care. They will also be available for consultation or advice to both patients and providers in the clinic. CR. PHARM


Sweer and Staff

Students will become members of the Neonatal Intensive Care Teams, attend rounds, conferences, observe and evaluate the care provided by nurses in the Neonatal Intensive Care Unit. CR. PHARM

180.05. Medical Intensive Care—UCD (1-8) Su, F, W, Th. Prerequisite: Successful completion of all first- and second-year courses. Clinical Pharmacy 148 and consent of instructor.

Sweer and Staff

The student will work in the Intensive Care Unit (ICU) and will be responsible for all aspects of patient care provided by the ICU. CR. PHARM

180.06. Surgical Intensive Care—UCD (1-8) Su, F, W, Th. Prerequisite: Successful completion of all first- and second-year courses. Clinical Pharmacy 148 and consent of instructor.

Sweer and Staff

The student will work in the Intensive Care Unit (ICU) and will be responsible for all aspects of patient care provided by the ICU. CR. PHARM


Sweer and Staff

The student will work in the Gastroenterology and Clinical Nutrition services at UCD Medical Center. The student will work with patients requiring specialized nutrition and will become an integral part of the Gastroenterology Consult Team. CR. PHARM

180.08. Microcomputer Applications in Pharmacy Practice—UCD (1-8) Su, F, W, Th. Prerequisite: Successful completion of all first- and second-year courses. Clinical Pharmacy 148 and consent of instructor.

Sweer and Staff

The student will study and develop a solution for a problem in pharmacy practice that can be solved by the use of microcomputer software. In addition, the student will review the use of microcomputer software in pharmacy practice. CR. PHARM


Sweer and Staff

The student will be required to complete a literature review and present the results to the Hospital Pharmacy and Therapeutics Committee. CR. PHARM

180.10. Infectious Diseases—UCD (1-8) Su, F, W, Th. Prerequisite: Successful completion of all first- and second-year courses. Clinical Pharmacy 148 and consent of instructor.

Sweer and Staff

The student will be required to complete a literature review and present the results to the Hospital Pharmacy and Therapeutics Committee. CR. PHARM


Sweer and Staff

The student will work in the Medical Intensive Care Unit (MICU) and will be responsible for all aspects of patient care provided by the ICU. CR. PHARM


Sweer and Staff

The student will be required to complete a literature review and present the results to the Hospital Pharmacy and Therapeutics Committee. CR. PHARM

180.20. Oncology—/Stutter Community Hospital—UCD (4-8) F, W, Th. Prerequisite: Successful completion of all first- and second-year courses. Clinical Pharmacy 148 and consent of instructor.

Sweer and Staff

The student will work in the Oncology/Intensive Care Unit (ICU) and will be responsible for all aspects of patient care provided by the ICU. CR. PHARM


Sweer and Staff

The student will work in the Cardiology Consult Team and will be responsible for all aspects of patient care provided by the Cardiology Consult Team. CR. PHARM

180.22. Community Dentistry

168. Community Health Methods (2) W., 1st hour. Lab 3 hours.

Silverstein

Dental hygiene students work in the North Oakland Community Wellness Clinic and the Children's Project. CR. PHARM

170.21. Craniofacial Anomalies

170.21. Craniofacial Anomalies—UCD (2) F. Prerequisite: Undergraduate course in orthodontics and craniofacial anomalies. CR. PHARM

171. Diagnosis & Treatment

171. Diagnosis & Treatment—UCD (2) F, W. Prerequisite: Undergraduate course in orthodontics and craniofacial anomalies. CR. PHARM
Chierici, Vargervik
Diagnostics, preventive, and corrective methods related to patients with congenital malformations of the orofacial region are discussed. GR. DEVEL.

171.A2. Craniofacial Anomalies. (2) W. Sp. Pre-require: Enroll in prosthodontic orthodontic or pediatric dentistry program or consent of instruc-tor. 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 acquired functions and therapeutic needs of the individual patient. GR. DEVEL.

186.01. Abnormal Orofacial Development. (1) F, W. Sp. Pre-require: Fourth-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 malformations is discussed. Instruction in diagnosis and preventive and corrective treatment methods is given in the clinic. GR. DEVEL.

Dental Auxiliary Utilization
120. Use of Dental Auxiliaries. (3) Sp. Pre-require: Restorative Dentistry 116: Lecture 1 hour.

Fleming
Lecture, clinical, and field work covering the principles of dental ergonomics, operator and patient positioning, instrument transfer techniques, and an orientation to efficient chairside auxiliary utilization and their legal functions DENT PUB HLTH.

Dental Health Education
150A-B. Intro to Dental Health Education. (0-3) F, W. Lecture 2 hours.

Ibadil
Course introduces the student to the basic concepts involved in the process of learning, communication, and preventive oral health instruction. Emphasis will be placed on chairside education, preparation of individualized preventive oral health programs, and the development of psychosocial skills to facilitate patient learning and behavior change. DENT PUB HLTH.

160. Continuity Dental Health. (2) W. Pre-require: Dental Health Education 150A. Lecture 2 hours.

Tobin
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.


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.


Frasier
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.

199A. Laboratory Project. (1-8) F, W. Sp. Pre-require: 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

Staff
Course provides additional clinical dental hygiene experience before entry into the second-year clinical. DENT PUB HLTH.


Heckman
Role of dental hygienist in dentistry; 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.

152. Introduction to Research. (3) Sp. Pre-require: To be taken concurrently with Dental Public Health and Hygiene 121. Lecture 1 hour.

Tobin
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.

155A-B. Intro to Clinical Dental Hygiene. (3-2) F, W. 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 preventive and oral hygiene treatment. DENT PUB HLTH.

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


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

159A. Clinical Dental Hygiene Seminar. (1-5) Sp. Seminar 1 hour given in alternate weeks. Heckman
Clinical seminar to discuss patient management and clinical procedures. DENT PUB HLTH.

160B-C. Jurisprudence & Office Mgmt. (1, 2) W. Lecture 1 hour; W: 2 hours. Kernan
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. Prerequisite: Dental Hygiene 151. Lecture 2 hours.

Poupaard
Continuation of Dental Hygiene 151. Course includes oral communication and presentation, interpersonal, oral surgery, periodontal anomalies, physical and removable fixed prosthodontics. DENT PUB HLTH.

162A. Research Design. (3) F. Pre-requisite: Dental Hygiene 121. Lecture 2 hours.

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

162B-C. Research Design. (0-4) W. Sp. Pre-requisite: Dental Hygiene 162A. Letter 1 hour. Poupaard
Continuation of Dental Hygiene 162A. Implementation of a research project and preparation for publishing, table clinical or poster session. DENT PUB HLTH.

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

169A-B-C. Clinical Seminar. (0-1-0-4-0-7) F, W, Sp. Prerequisite: Concurrent enrollment in Dental Hygiene 169A-B-C. Lecture variable.

Walsh
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 1 hour.

Hummert
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. (0-1-4) F, W. Sp. Prerequisite: Second-year standing in dental hygiene and consent of instructor. Poupaard
Students select an area of interest for independent study or research. These may include clinical, community, educational, institutional, or other areas. DENT PUB HLTH.

189. 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. 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. Walsh
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. Walsh
A laboratory research project under direction of a
Dental Hygiene / Dental Jurisprudence / Dental Practice Management / Dental Public Health & Hygiene

member of the faculty with the approval of the chairman of the department. DENT PUB HLTH

A seminar series for dental hygiene students enrolled in the Master's Program in Oral Biology with a special track in Dental Hygiene. Included are issues and research related to dental hygiene in a systems-oriented manner. Current literature will be critically reviewed by students under faculty supervision, by faculty, or guest lecturers. DENT PUB HLTH

20A-B-C. Current Topics II. (1-1-1) § F, W. Prerequisite: DH 20A-B-C. Seminar 1 hour. Walsh, Ishida
A seminar series for dental hygiene students enrolled in the Master's Program in Oral Biology with a special track in Dental Hygiene. Included are issues and research related to dental hygiene in a systems-oriented manner. Current literature will be critically reviewed by students under faculty supervision, by faculty, or guest lecturers. DENT PUB HLTH

391. Teaching Practicum in Dental Hygiene Education. (1-1-1) § F, W, Sp. Prerequisite: Dental Hygiene 202. Lab 5 hours. Walsh
Practical teaching experiences in selected dental hygiene courses under the supervision of dental hygiene faculty members. DENT PUB HLTH

Dental Jurisprudence

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

Dental Practice Management

Provides skills in communicating effectively with employees, patients, and others associated with the practice of dentistry. Personnel management, recruitment, retention, benefits and patient management, legal responsibilities, financial arrangements are covered. DENT PUB HLTH

160. Adv Dental Practice Management. (1-5) W. Sp. Prerequisite: DMD/H 121, 122. Dentistry 4
Dean's course - Fall quarter, or permission of instructor. Class size limited to 15 per group. Lab 1 hour, seminar 1.5 hours. Bird
Advanced concepts of dental practice management including dental practice case studies, computer simulations and practice analysis techniques, and independent field study of an ongoing dental practice. Computer Lab training will be included. DENT PUB HLTH

Dental Public Health and Hygiene

116. Epidemiology & Preventive Dentistry. (1-5) 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 school; dental health education. DENT PUB HLTH

117. Professional Issues in Dentistry. (6-5) F. Lecture and seminar 16 hours. Wycoff, Gerbert, Pollick, Scherwin, S. Silverstein, M. Walsh
Lectures and seminar on professional issues in dentistry. Topics include: modes of practice, dental needs of special groups, stress management, drug use/abuse, preventive dentistry, research design, ethics and history of dentistry. DENT PUB HLTH

120. Behavioral Sciences. (1) W. Lecture 1 hour. Gelbert
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

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

175. Dental Public Health Practice & Clinic. (1-5) Su, F, W, Sp. Prerequisite: Postgraduate standing and permission of instructor. Silverstein and Staff
To provide the dental public health residence with the opportunity to participate in the Family and Preventive Dental Service. They will learn about marketing strategies, computer billing services, office management, expanded function dental auxiliaries, and the delivery of preventive dental services. DENT PUB HLTH

186. Multidisciplinary Geriatric Care. (1.5) F. W, Sp. Shau
A seminar and clinical rotation in which the students function as members of a multidisciplinary health care team. The students evaluate geriatric patients and formulate comprehensive treatment plans. Seminar topics include functional assessment, home assessment, social resources, and dental management. DENT PUB HLTH

187. Multidisciplinary Geriatric Care. (1.5-2.5) F, W, Sp. Shau
A seminar and clinical rotation in which the students function as members of a multidisciplinary health care team. The students evaluate geriatric patients and formulate comprehensive treatment plans. Seminar topics include functional assessment, home assessment, social resources and dental management. DENT PUB HLTH

A seminar course designed to provide an overview of research design, data collection strategies, methods of collecting and interpreting data, and assessment of threats to validity. Hypothesis development, protocol preparation, and grant writing will also be included. DENT PUB HLTH

Dental Technics

185. Intro to Basic Dental Technics. (2) S&S. Lab 18 hours for three weeks. Heath
Technical orientation to the basic technics taught in the first year of dentistry such as morphology, prosthetics, instruments, operative dentistry. RSTOR, DENT

Dermatology

First-Year Coordinator: 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 physical diagnosis, histopathology, and dermatologic therapeutic procedures. DENT PUB HLTH

140. Advanced Dermatology Clerkship. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of Instructor

Odorn
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. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of Instructor.
Wintroth
Clinical clerkship in approved hospitals by special arrangement and approval of the dean and chairman of the department. DERMATOL

140.03. Advanced Dermatology Clerkship—Fresno. (1.5 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 outpatients and inpatient care and research methods, according to individual interest. DERMATOL

140.04. Inpatient Clinical Dermatology. (1.5 per week) Su, F, W, Sp. Prerequisite: Dermatology 140.01.
Odorn, Wintroth, Resnick
Four-week block rotation. Students will work with inpatients. Dermatology residents and share primary responsibility for inpatients, hospital consultations and psychiatric care of patients. DERMATOL

140.05. Advanced Clinical Dermatology. (1.5 per week) Su, F, W, Sp. Prerequisite: Dermatology 140.01.
Odorn, Wintroth, Resnick
Students will function as clinical clerks with primary responsibility for patients seen in an outpatient clinical setting. Responsibilities will include diagnosis, patient management, and therapy of common cutaneous diseases. Course duration is four weeks. DERMATOL

150.01. Dermatology Research. (0.5 per week) Su, F, W, Sp. Prerequisite: Consent of Instructor.
Wintroth
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.
Wintroth
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.
Wintroth
A laboratory research project under direction of a member of the faculty with the approval of the chairman of the department. DERMATOL
Epidemiology and International Health

100. Medical Parasitology (3) Sp. Prerequisite: Microbiology 100 (without parasitology) or equivalent, or concurrent enrollment. Lecture 2 hours.

Heymann

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 laboratory aids. Laboratory demonstrations keyed to lectures are displayed throughout the week.

EPID INTL. HLTH


Ernst, Petrikis

Basic epidemiologic and biostatistical methods. Emphasis is on the design of clinical trials and studies to investigate disease ecology, methods for evaluating screening and diagnostic tests, skills for critical review of the medical literature, and assessment of patient risk factors for use in clinical practice.

EPID INTL. HLTH

146.3A. Clinical Clerkship Abroad (1.5 per week) Su, F. W. Prerequisite: Nine months of clinical work and Epidemiology and International Health, 150.01, or consent of instructor. R. Goldsmith, Brayman.

Clinical clerkship elective in a developing country. Students provide patient care at a rural primary health care clinic, 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

146.02B. Off-Campus Clerkship (1.5 per week) Su, F. W. Prerequisite: Consent of chairperson of department.

Petrikis and Staff

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

146.03. Leprosy (1.5 per week) Su, F. W. Prerequisite: Medicine 110 and consent of instructor.

Gelber

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

146.04. Refugee Screening Clinic-SFGH (1.5 per week) Su, F. W. Prerequisite: Medicine 110, Pediatrics 110, and consent of instructor.

Dr. Lay

Diagnostic and treatment of refugees from culturally diverse populations. Clinical experience with various tropical diseases and medical problems in family practice associated with those cultures.

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Epidemiology/Endocrinology

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

Nisenson, Bourne

Course covers clinical and current literature concerning known and speculative mechanisms of hormone action. Major topics are: G proteins, insulin-like growth, catecholamines, and endocrine functions. PHYSIOLOGY

263. General Endocrinology (3) F. Prerequisite: Consent of instructor.

Dallman, R. Bieber

A survey of the principles of endocrinology focusing on experimental approaches. The course includes lectures, reading of the primary literature, and laboratory work. PHYSIOLOGY

209. Molecular Endocrinology (3) W. Prerequisite: Knowledge of biochemistry. Will not be given for less than 5 students. Offered in alternate years. Offered 1990-91. Lecture 4 hours.

Kwulikower, 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.

PHYSIOLOGY

210. Clinical Endocrinology Seminar (1) F, W, W. Prerequisite: Consent of instructor.

Schadeck

Clinical and basic seminar in endocrinology presented in a format which provides both lecture and discussion. Emphasis is placed on clinical applications of research at the frontier of modern endocrinology.

PHYSIOLOGY


Nisenson

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.

PHYSIOLOGY

224. Neuroendocrinology (3) 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. Welner, 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.

PHYSIOLOGY

230. Research (1-8) F. W. Prerequisite: Consent of instructor.

PHYSIOLOGY

87
Epidemiology and International Health

Guided reading and possible attendance at Tropical Medicine-Diseases Clinic, UCSF, and Lepraey Clinic, VMC, EPID INTL HLTH

150.01. Medicine in Developing Countries. (1.5 per week) W. Prerequisite: Epidemiology and International Health 100 or consent of instructor. 

R. Goldsmith

Two-week block elective on the recognition and understanding of disease in tropical and developing countries. The course is designed to prepare students for careers abroad in developing countries. 

Prerequisite: EPID 100 and permission of instructor. Lectures, seminars, films, laboratory sessions, and supervised independent study. EPID INTL HLTH

150.02. Research Abroad. (1.5 per week) Su, F, W. Prerequisite: Consent of instructor. 

F. Dunn and Staff

Research abroad, usually in a developing country, under supervision of a member of the Epidemiology and International Health faculty. Guidance is available principally for epidemiological studies and for research in tropical medicine, medical anthropology, medical anthropology, and topics in international health. (EPID INTL HLTH

160.01. Cancer Epidemiology. (1-2) W. Prerequisite: Epidemiology and International Health 101 or consent of instructor. Lecture 1 hour. Option: term paper for 2 units. 

Petrasik and Staff

Survey and discussion of selected papers in the knowledge of the epidemiology of the major sites of cancer. Focus is on etiologic and methodological aspects and applications to prevention. EPID INTL HLTH

170.05. Intro to International Health. (2) W. Lecture 2 hours. 

F. Dunn and Staff

Lectures and discussion of survey the history, organizational structure, major activities and topics that comprise the field of international health. EPID INTL HLTH

170.07. Leprosy Laboratory Project. (1.5) Su, F, W. Prerequisite: Consent of instructor. 

Geller

A laboratory research problem of leprosy under the guidance of a member of the staff of the Leprosy Research Center at Semon 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. 

P. Lee, F. Dunn, J. Justice

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

170.09. Psychiatric Epidemiology. (1-2) F. Prerequisite: Training in epidemiology and consent of instructor. Lecture 1 hour. Optional term paper for 2 units. 

F. Dunn

Survey of epidemiological and medical ecological approaches and case- and community-contemporary understanding of psychiatric disorders. EPID INTL HLTH

170.10. Occupational Epidemiology. (1-2) W. Prerequisite: Epidemiology and International Health 101 or 190. Seminar 1 hour. Optional term paper for 2 units. 

Murachi

Seminars on selected topics in occupationally-related diseases with specific emphasis on their epidemiology, preventive, and compensatory aspects. Discussion, with examples, of the concept of disability and of the physician's basic role and responsibilities in determining its level. EPID INTL HLTH

170.11. Journalism for Health Sci Students. (2) F. Seminar 2 hours. 

Gustafson, Gardiner

This elective is designed to introduce UCSC students to pertinent aspects of the craft of journalism. It includes discussions of basic skills and issues, guest sessions featuring science journalists, and workshops where class members discuss writing samples. Each student is required to write two articles. EPID INTL HLTH

180.01. Tropical Medicine Clinics. (1-2) Su, F, W. Prerequisite: Epidemiology and International Health 100 and 160. Seminar 2 hours. 

R. Goldsmith, Frierson and Staff

Examination and treatment of patients in the Tropical Medicine Clinic under staff supervision. The clinic operates in conjunction with the Infectious Disease Service; patients seen have both parasitic and other infectious diseases. EPID INTL HLTH

180.04. Research Design. (2–3) § S, SS. F, W. Prerequisite: Consent of instructor. Seminar 3 hours. Optional term paper for 3 units. 

Hailey

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 determining cause and effect, and the challenge of ending health policy. EPID INTL HLTH

180.05. Maternal & Child HBl-Derived Cost. (1–2) § S. Lecture and discussion 1 hour. Optional term paper for 2 units. 

Anshel

Lectures and discussion to review major factors affecting maternal and child health in developing countries, including the impact of poverty, nutrition, infectious diseases, immunization, engangement of ambulatory care, setting of priorities, and critical issues of local population health authorities. EPID INTL HLTH

Family and Community Medicine

110. FM Core Clerkship. (1.5 per week) Su, F, W. Prerequisite: Completion of 20 weeks of clinical clerkship including Medicine 110. Rodnick, D. Mitchell

Students function as family/primary physicians in ambulatory health settings at affiliated residency programs. Family Practice at SFH, CHS in Santa Rosa, NANT in Salinas, VMC in Fresno, and SHH in Fort Ord. Primary Care Internship: at UC. SFH, and ME. FAM CM MED

160.01A-C-D. Advanced Family Practice. (1.5 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.

A-Schott, B-Patnick, C-Weaver, Slater, D-Rodnick, Mitchell

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

160.02. Community Health Programs. (1.5 per week) Su, F, W. Prerequisite: Determined by student’s clinical experience. Consent of instructor. 

Barbaccia 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, Dialectic Summer Camp, Asian Health Service, and various neighborhood clinics. FAM CM MED

160.03. Preventive Medicine Field Work. (1.5 per week) Su, F, W. Prerequisite: Fourth-year standing in School of Medicine and consent of instructor. 

Pratt

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

160.04. Family Practice Preceptorship. (1.5 per week) Su, F, W. Prerequisite: Consent of instructor. 

Rodnick

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

160.05A-B-C-D. Social Medicine. (1.5 per week) F, W, Sp. Prerequisite: Consent of instructor. 

Barbaccia

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

160.06A-B-C. Rehabilitation Medicine. (1.5 per week) A, B, and C are offered in all of the following quarters: Su, F, W, Sp. Prerequisite: Consent of instructor. 

Barnes
Family and Community Medicine

lowing quarters: Su, F, W, Sp. Prerequisite: Consent of instructor.
A. Crain
A -San Francisco Bay Area; B -Pressey; C -other sites. Students are assigned to rehabilitation facilities for up to four weeks. Emphasis will be on the selection of patients who are suitable for rehabilitation and the interpersonal approach to rehabilitation. FAM CM MED

140.07. Adv Fam Pract Preceptory. (1.5 per week) Su, F, W, Sp. Prerequisite: Advanced medical school standing and consent of instructor.
Rednick
Students select from several urban or rural sites. Experience provides students the opportunity to participate in the care of patients and their families at the physician's practice, local hospital, and emergency room. FAM CM MED

140.40. Adv Impatient Fam Med Clinlk. (1.5 per week) Su, F, W, Sp. Prerequisite: Senior medical clerkship.
R. Goldschmidt, M. Johnson
The Family Practice Impatient Service at SFCH 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

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

140.60 - 140.63. Physical Clinical Rotations. (1.5 per week) F, W, Sp. Prerequisite: Medicine 110 and Neurology 110 and consent of instructor.
Bacchus, Weidrag and Staff
A -San Francisco; B -Brentwood; 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, and home care. Students will attend medical rounds and conferences, didactic sessions, and geriatric consultation rounds. FAM CM MED

140.70. Community Medicine in International Perspective. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of instructor. 
Brenner, Oviatt-Stiffler, Petitin
A 1-2 week elective involving placement at a supervised primary care training and/or service site abroad. Placements will be made according to student interest and language capability, and according to availability of appropriately supervised sites, mainly in Latin America. FAM CM MED

140.01. Research. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of instructor.
Rednick, Barbascia 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. (1.5-3) Su, F, W, Sp. Prerequisite: Medical student standing. Consent of instructor. Field work 4-8 hours.
Barbascia
Non-block assignment 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 in non-scheduled time during any medical school year. Attempts will be made to select families of special interest to the student, e.g., prenatal, adolescent, geriatric, minority. FAM CM MED

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

160.04A - 160.04B. Sports Medicine. (2-0) F. Open only to students in School of Medicine or graduate students in School of Nursing. Lecture 2 hours, optional 4 hours clinical.
Rennier
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 clinical field work. FAM CM MED

160.04B. Advanced Sports Medicine. (2) W. Prerequisite: Family and Community Medicine 160.04A. Medical students only. Lecture 2 hours. Lab optional. 1 hour.
Rennier
Diagnosis, treatment, and rehabilitation of specific athletic injuries organized by anatomical areas, basically of the non-elite athlete. Emphasis on non-surgical treatment for European and American techniques using community resources and prompt surgical referral when necessary. FAM CM MED

160.05. Mission Community Health Elective. (1-3) Su, F, W, Sp. Prerequisite: Consent of instructor. Lab 2-6 hours. Field work 2-8 hours.
Sahadea, D. Fink
Explores health care activists, 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 FAM CM MED

160.07. Family Health & Care. (2) F Seminar 2 hours.
Ransome, Braveman, Segal
Introductory principles of family medicine are discussed in case and discussion groups led by family physicians and family psychologists. Preceptory is 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, C are offered in all of the following quarters: Su, F, W, Sp. Prerequisite: Consent of instructor. Lecture and reading 1-3 hours.
Rednick and Staff
Explores in systematic (lecture/readings/discussion) format new issues in health care or special career areas related to family and community health. Topics are developed and prepared according to faculty students' interest. FAM CM MED

170.02. Elderly Community Programs. (2) W Lecture 1 hour. Conference 2 hours. Enrollment limited.
Barbascia, Robinson, Weiss
This course offers the student the opportunity of the aged in San Francisco. Lectures cover the socio-demographic, cultural, and health status 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 1-2 hours.
L. Crain
Resource overview with reading assignments correlated with field experiences in the spectrum of community and institutional services, including comprehensive diagnostic, therapeutic, and counseling services for children and adults with developmental disabilities. FAM CM MED

170.04. Rehabilitation in Primary Care. (2) Su, F, W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Byl, Berrol
Course exposes medical and other health science students to the principles of rehabilitation and common therapeutic strategies. Emphasis will be on the development of their theoretical foundation on which the student can build clinical rehabilitation skills in practice. 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 importance of rehabilitation services for children and/or adults with chronic or disabling diseases. FAM CM MED

Brennan, Kuzenez, Viscusi-Vega
A practical course designed to develop basic skills in overcoming cultural and linguistic barriers to health care for Spanish-speaking persons. FAM CM MED

171. Computers and Problem Solving with Applications to Health Care. (2) W Medical students only. Lecture 2 hours. Rednick
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 program design; methodology; examples of present and potential applications of computer systems to the medical environment. FAM CM MED

172A. Legal Medicine- Basic Concepts. (2) F. Lecture 2 hours.
Tennehouse
Fundamental legal principles and procedures affecting medical practice, with emphasis on the role of the physician in the litigation process; the areas of medical practice which most frequently involve litigation; and practical measures to minimize the risk of lawsuits. FAM CM MED

172B. Legal Medicine-Practical Aspects. (2) W. Lecture 2 hours.
Tennehouse
Fundamental legal principles and procedures affecting medical practice, with emphasis on the role of the physician in the litigation process; the areas of medical practice which most frequently involve litigation; and practical measures to minimize the risk of lawsuits. FAM CM MED

173. Family Practice Seminar. (1-2) Su, 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

Rednick
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. (1-3) F, W, Sp. Prerequisite: Consent of instructor. Seminar 1-3 hours.

Guttenberg Exploration of the theoretical premises of Western physician-patient relationship to other disciplines, such as theology and man’s spiritual dimension, and other cultural attitudes, trend and historical aspects of the historical approach to the physician-patient relationship, operational concepts such as the clinical essay. FAM CM MED

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

Guttenberg Seminar on selected writings and 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 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


E. Fisher Review of theoretical and methodological alternatives for analyzing the family as a psychosocial unit, within the context of health and illness. FAM CM MED


Petition Lecture 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


Braveman, Sanchez, Koreck An introduction to demographics, political/economic, sociological, anthropologic and sociologic issues of importance for the health of diverse Latino subcultures in the US. FAM CM MED


Barbaccia Lecture-seminar format is used to cover major aspects of the organization and function of the health care system and its subsystems, including manpower, hospitars, ambulatory care, planning regulations 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.

Werdiger 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.

Guttenberg 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 venous inadaptation or superfluous hypothesis, the concept of the clinical entity. FAM CM MED


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

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 weeks.

Wycoff, Saclate, Garcia Multi-component rotation including seminars, patient group presentation, specialty grand rounds and comprehensive patient care. Supervised clinics 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

Health Sciences Education

200. Intro to Teaching Health Science. (1) F. Prerequisite: Consent of instructor. Lecture 2 hours.

Petition The course focuses on instructional techniques and strategies useful for the beginning instructor. Emphasis is placed on teaching professional students in the School of Pharmacy. Open to graduate students, residents and new faculty. PHARMACY


Rosinski Considerations of principles of teaching, including student individual 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. MED 116


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 of Health Sciences

156. History of Pharmacy. (2 or 3) F. Lecture 2 hours, term paper (optional) for 3 units.

Sadak 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

156.01. Issues in American Medical Practice. (3) F, W, Sp. Prerequisite: Third- or fourth-year standing and consent of instructor. Seminar 3 hours. Research project required.

Rine Two-week non-clinical block devoted to reading, literature review, discussions and presentations on the historical development of topics considered central to the practice of medicine: character of scientific medicine, role of technology, medical ethics and malpractice, cooperation and conflict, and the physician-patient relationship. HIST HL SC


Rine, Presman Course intends to develop a sense of historical perspective and the ability to assess present issues in the light of past experience. Readings and visual aids will focus on the scientific and social aspects of the health sciences. HIST HL SC


Staff Presentation and historical analysis of issues and problems considered critical in the evolution of modern dentistry. Among the subjects to be considered are the relationship with other health professions, medical technology, and social policy. HIST HL SC

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

Rine and Staff Historical research and/or directed writing under supervision of a faculty member with approval of the department chairperson. HIST HL SC

200A. Introduction to Medical History. (2-4) F. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour (optional). Term paper (optional).
the changing burdens of disease across cultural and geographic boundaries and presents broad concepts of human development that in each period influenced the evolution of medical knowledge and professional activities. HIST HL SC

20B. Introduction to Medical History (2-4) W. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour (optional). Term paper (optional).

Presman
Continuation of the general survey from the Renaissance to the end of the eighteenth century with special emphasis on the mechanical revolution in medical thought and the medicalization of Roman society. HIST HL SC

20C. Introduction to Medical History (2-4) Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour (optional). Term paper (optional).

Presman
Continuation of the general survey from the nineteenth century to the present, examining in detail the emergence of scientific medicine, germ theory, medical technology, and nineteenth-century therapeutics. HIST HL SC

20A. Health and Plagues: Ecology and History (3-4) F. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Term paper (optional).

Risse
Introduction to social, cultural, and geographic boundaries from prehistory to the Renaissance, including the spread of the Black Death. The focus will be on factors, both biological and social, responsible for the shifting ecology of disease. HIST HL SC

201B. Health and Plagues: Ecology and History (3-4) W. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Term paper (optional).

Presman
Continuation of the general overview of health conditions in primitive and savanna societies from the Renaissance to the Industrial Revolution, with emphasis on topics such as the appearance of syphilis, the transatlantic spread of epidemic disease to America, and the decline of plague. HIST HL SC

201C. Health and Plagues: Ecology and History (3-4) Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Term paper (optional).

Risse
Last segment of the general overview of health conditions in primitive and savanna societies from the Renaissance to the present, with emphasis on the effects of industrialization on urban health, and the epidemiological transitions from acute infections to chronic degenerative diseases. HIST HL SC

204A. Historical Research I (2-4) F. Prerequisite: Consent of instructor. Seminar 2 hours. Optional term paper & reports.

Risse, Presman
Introduction to medical historical discourse. Discussion of the different approaches employed in writing history: intellectual, social, historical, of disease, feminist perspectives, etc. HIST HL SC

204B. Historical Research II (2-4) W. Prerequisite: Consent of instructor. Seminar 2 hours. Optional term paper & reports.

Risse, Presman
Introduction to research in medical history. Survey of bibliographical tools available to historians. Visits to archives and libraries in the Bay Area. Interviewing skills and preparatory research for oral history. HIST HL SC

204C. Historical Research III (2-4) Sp. Prerequisite: Consent of instructor. Seminar 2 hours. Optional research paper.

Risse, Presman
Introduction to the craft of interpreting and writing medical history. Directed and assisted research and writing of historiographical topics. HIST HL SC

206. History of Psychiatry (2-4) F. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour.

Presman
Evolution of concepts of madness and treatment of the mentally ill, from the Renaissance to the present. These developments are explored through a focus on cultural and social contexts. Particular attention is paid to the development of the insane asylum. HIST HL SC


Guttenberg
Extended reading and conferences of History of Health Sciences 206. HIST HL SC


Presman
Selected topics in nursing history since the time of Florence Nightingale. Examination of the context of professional education, women's roles, and health care. HIST HL SC

211A. History of Hospitals I (2-4) W. Prerequisite: Consent of instructor. Lecture 2 hours, seminar 1 hour.

Risse, Presman
Analysis of institutional developments from pre-Christian times, Christian charity and segregation schemes, to the secularization and medicalization of the hospital during the Enlightenment. HIST HL SC

211B. History of Hospitals II (2-4) F. Prerequisite: Consent of instructor. Lecture 2 hours, seminar 1 hour.

Presman, Risse
The growth with the early Industrial Revolution and ends with the modern technologically intensive institutions that dominates modern medicine. HIST HL SC

213. Topics in American Medicine (2-4) W. Prerequisite: Consent of instructor. Lecture 2 hours, seminar 1 hour.

Presman, Risse
The rise of the American health care system and the broadening cultural authority of the medical expert are examined historically. Topics include sectarian medicine, nursing, the Progressive movement, intelligence testing, pharmaceuticals, and the role of government. HIST HL SC


Risse
Clinical developments in Europe and America with emphasis on diagnostic and therapeutic procedures. The course examines both patients and professionals within the scientific, behavioral, and social contexts of medical practice. HIST HL SC

219. Latin America: History of Fifth Issues. (2-4) Sp. Prerequisite: Consent of instructor. Lecture 1 hour, seminar 1 hour. Term paper & class presentations optional for extra credit.

Risse
Examination of relations between society, environment, and disease and their effects on pre-Columbian and colonial medical institutions in Latin America. HIST HL SC


Truax
Seminar allowing individual staff or guest lecturers to present selected topics in the history of the health sciences based on their current research and publications. HIST HL SC


Staff
Supervised independent research, including presentations and critique of research papers, theses, and honors papers. HIST HL SC


Risse
Historical perspectives on women's health status as patients, providers, and reformers with a focus on twentieth-century developments in the US and Great Britain. HIST HL SC

257. Special Study. (1-4) F, W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Term papers. Independent study (optional). Staff

Supervised independent study intended to provide directed reading in subject matter not covered in scheduled seminar offerings. HIST HL SC

298. Thesis. (0) F, W. Prerequisite: Advance- ment 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. Prerequisite: Admission 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

299. Off-Campus Study. (1-6) F, W. Prerequisite: Approval of graduate adviser.

Staff
Full-time graduate study in the Human Develop- ment and Aging program through the intercampus exchange or consortium program. PSYCH/PHIL

201A-B-C. Fundamental Theoretical Methods. (1-4) F, W, Sp. Prerequisite: Consent of instructor. Seminar 4 hours.

Elston, Lieberman, Rosenow, 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 psychopatology. PSYCH/PHIL


Staff
This three-quarter course covers major methods and techniques of life-course/life-span research includ- ing surveys, field observations, analysis of quan- titative and qualitative data, and longitudinal re- search. PSYCH/PHIL

203. Prob Formulation & Res Design. (3) F, W. Prerequisite: Consent of instructor. Rosenow

Students work on their own research interest in terms of problem formulation, research design, and/or operationalization. Ecstasy dependent upon individual student needs. PSYCH/PHIL

204. Personal Development. (1-8) F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Kiefer

94
95
Representative works from behavioral science literature and world poetry and prose are brought together in the study of personality development in adult life. Compare insights from 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. Rowan Students either provide their own or use accessible data in the study of major research projects. Emphasis is on training in data organization, analysis, and research report writing. PSYCHIATRY

207. Methods of Survey Research. (3) F, W. Prerequisite: Consent of instructor. Lecture 3 hours, plus field work. Pearlman Course covers the major tasks of survey research. Topics such as conceptual specification, the development of indicator and measures, the construction of questionnaires, sampling, field testing, interviewing, and analysis are covered. PSYCHIATRY

210. Socialization to Old Age. (3) F, W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Rowan A seminar on adult socialization theory, with specific 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. Adv Personal Development (2-3) Sp. Prerequisite: Hum Dev 204, or consent of instructor. Seminars 2 hours, optional extra unit. Kiefer The prerequisite, Hum Dev 204, combines study of mainstream theories of adult personality development with literacy weeks as case material. This course, Hum Dev 214, proceeds to the study of alternative modes from Lazarau's Western and Asian traditions—C. G. Jung, William James, Hindu, Buddhist, Taoist, and Judeo-Christian spiritual writers—and literary examples based on these. 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

230. Research Project Seminar. (3) F, W, Sp. Prerequisite: Graduate standing in Human Development and Aging Program, or consent of instructor. Seminar 4 hours, 6 hour additional research work. Blaisse, Rowan and Staff

Laboratory Medicine

140.01. Clinical Pathology. (1.5 per week) § Su, F, W, Sp. Prerequisite: One year of medical school and consent of instructor.

Gronstorf Laboratory sessions and seminars on aspects of clinical chemistry, hematology, microbiology, blood banking, and radiology are held in the clinical laboratories at SUH and LAB MED.

140.55. Clinical Pathology—VMC. (1.5 per week) § F, W, Sp. Prerequisite: Medicine 110 and consent of instructor.

M. Fisher, Sobelos

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

140.06. Laboratory Medicine in Fresno. (1.5 per week) § Su, F, W, Sp. Prerequisite: Medicine 110. Belmont, L. Mann

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

150.01. Laboratory Medicine—UC. (1.5 per week) § Su, F, W, Sp. Prerequisite: Medicine 110. Shochet

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. Anatomy and Biomechanics. (2) F, W, Sp. Prerequisite: One year of medical school. Lecture 1 hour, Clinic 4 hours. Pollywolfe

Basic laboratory courses in nuclear medicine. Clinical participation in the diagnosis of patients receiving radioactive compounds in the operative clinics and in the wards. LAB MED

160.02. Sexually Transmitted Diseases. (2) § W. 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, vaginitis, AIDS, and others. This is an elective course oriented toward medical students. LAB MED

Medical Information Science

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. MED INF SC

201. Content & Format of Information. (2) W. Prerequisite: Medical Information Science 200 or equivalent. Lecture 2 hours. Writing-O’Keefe Consideration of the use of medical information and its content, organization, and format to serve those uses. Particular emphasis is on the medical record systems (both computerized and manual) as a medium of medical information communication. MED INF SC


218A. Systems Programming. (4) F. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 5 hours. Wasserstein Introduction to computer system architecture and
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organization; operating systems, programming lan-
guages and data design. MED INF SC.

210D. Software Engineering. (4) W. Prerequi-
site: Medical Information Science 210A or equiva-
 lent, or consent of instructor. Lecture 3 hours. Lab 3 hours.
Wasserstein
Language processor; software engineering concepts; specifi-
cation and design of software systems; and software reliability. MED INF SC.

222. Systems Analysis of Medical Care. (4) \W. Lecture 4 hours.
Stetson
Introduction to use of operations research and sys-
terms from a client's data, management or rev-
evaluation of medical care systems. Application of op-
WATERFORD
erations research techniques to hospital and
other health care facilities and studied within a systems
framework. MED INF SC.

225. Design of Systems. (2) W. Prerequisite: Consent of
Instructor. Lecture 2 hours.
Hudson
The design of previous medical information systems is
examined. Successful components of the system will be
evaluated and compared to cost, perfor-
Blytes
mance, and acceptability. Field trips to existing
MED INF SC.
systems will be made. MED INF SC.

235. Pattern Recognition in Medicine. (2) F. Lecture 2 hours.
Hudson
This course will analyze various techniques of pa-
ttern recognition including parameter estimation,
Bayes classifiers, linear and nonlinear discriminants,
supervised and unsupervised learning, clustering,
and dimensionality reduction. These techniques will
be illustrated as they apply to medical classification
problems involving classification into two or more
classes. MED INF SC.

240. Data Base Management. (3) W. Prerequisite:
Medical Information Science 210B or equiva-
lent, or consent of Instructor. Lecture 3 hours. Staff
Course covers techniques for logical and physical
file organization, database design, query language,
and query languages. MED INF SC.

Blytes
Course covers the treatment of a number of funda-
mental concepts which form the basis of informa-
tion science, such as the nature of information and
communication, and the problem of representation
of knowledge. MED INF SC.

256. Research. (1-3) F, W, Sp. Staff
MED INF SC.

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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: Advanced study
And admission and permission of the
graduate advisor.
Staff
For graduate students engaged in writing the disser-
tation for the Ph.D. degree. MED INF SCP.

Medicine

110. Medicine Core Clerkship--UC-SFGH-VA-
Maz-VAFMC. (2.5 per week) SS2, SS2, F, W, Sp. Prerequisite: Medicine 131A-B-C and
132A-B-C. Open to UCSF students only. UC: Papadakis, SFGH Huber, VA: Tieerney, VA:
Woober, VAFMC Freeman.
Students are part of the ward team with the huis-
staff and faculty. Include instruction in history-tak-
ing, physical diagnosis, selected seminars in general
medicine including the psychiatric aspects of medi-
cine, and presentations and demonstrations of rele-
vant cases. MEDICINE.

111. Mechanisms of Disease. (1.5 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 etiology and planning of inter-
ventions based on these principles drawn from basic
sciences. MEDICINE.

112. Responsibilities of Med Prac. (1.5 per week) Sp. Prerequisite: Medicine 110 and Surgery 110.
Lo
Course will discuss economic forces, ethical and
legal issues, and social and cultural factors, and gov-
ernmental policies affecting medical practice. It will
define professional responsibilities in the context of
these influences and the resulting forms and trends
in medical practice. MEDICINE.

131A-B-C. Intro to Clinical Medicine. (1.2-3) F, W, Sp. Prerequisite: Fourth-year standing or con-
tent of instructor. Lecture 1 hour; Sp. Section week 2 hours; W, 4 hours Sp.
Lewis
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. Lect-
tures, clinical demonstrations, conferences, precep-
torship in ambulatory care setting. MEDICINE.

132A-B-C. Intro to Clinical Medicine. (1.2-3) F, W, Sp. Prerequisite: Anatomy 100, 102, and 103;
Biochemistry 100A-B; Medicine 131A-B-C; Microbiology 100A-B. (May be taken con-
temporaneously) Pathology 101, 102, and 103. (May be taken concurrently); Physiology 101 and 102; or consent
of instructor. Lecture 5 hours, F, W, 1 hour Sp. Lab 2 hours; F: Section week 4 hours F, Sp; 6 hours W.
Lewis
Continuation of interdepartmental course on pa-
thophysiology of disease and techniques of collect-
ing and assessing clinical data, including history-

taking, examination of the patient, and use of labo-

ratory tests. Lectures, demonstrations, includes work
lab practice. Laboratories, conferences, and independent study. MEDICINE.

140.10. Acting Internship--UC-VA-Maz-VAFMC-SFGH. (1.5 per week) Sp. Prerequisite: Completion of Medicine 110.
UC: Papadakis, VA: Tieerney, VA: Woober, VAFMC: Freeman, SFGH: Huber
Students are assigned patients for study 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 discussed.
MEDICINE.

140.02. Off-Campus Clerkship. (1.5 per week) Sp, F, W, Sp. Prerequisite: Medicine 110 and ap-
pearance of third- and fourth-year coordinator.
Papadakis
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 CRIP-UC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and
131A-B-C.
Shuman and Staff
On Clinical Cancer Chemotherapy Service, stu-
dents work up patients, present to attending
staff and conferences, do daily procedures, and
write orders under supervision. MEDICINE.

140.04. Immunology--VA. (0.5 per week) Su, F, W, Sp. Prerequisite: Completion of Medicine
110 and Surgery 110.
Jensen, Tager
Clinical elective with instructors and supervisors at
VA. Students will see consults with clinical infec-
tious disease fellows. Introduction to clinical micro-
biology and hospital epidemiology is included. MEDICINE.

140.05. Cardiology--VAMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of
instructor.
Gregorys
Students participate in various clinical cardiological activ-
tes and attend related teaching conferences and
patient rounds. They are instructed in electro-
cardiographic interpretation and participate in daily
ECG teaching sessions. MEDICINE.

140.07. Oncology-SFGH. (1.5 per week) F, W, Sp. Prerequisite: Medicine 110.
Vollberding
Students will evaluate patients with malignant dis-
cases under the supervision of oncology fellows and
attending physicians. Students will see oncology
patients in outpatient clinic and at oncology consult-
session service. In addition to a broad expo-
sure to a wide range of malignant diseases, the stu-
dents will be allowed to participate in the outpatient
evaluation of patients with AIDS and Kaposi's sar-
coma. MEDICINE.

140.08. Gastroenterology-UC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110.
Ockner
Students examine hospitalized and ambulatory pa-
tients, participate in their care, and prepare case
summaries to supplement gastroenterology fellows
and attending physicians. They attend all rounds
and teaching conferences and may observe perform-
arne of various diagnostic and therapeutic proce-
dures. MEDICINE.

140.09. Cardiology-Maz. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and 140.01 or
an equivalent senior ward medicine experience. Con-
tent of instructor.
Mailhot, E. Cohen, Paley
Students work up patients, follow through diagno-
sic procedures, phonoangiograms, echocardi-
grams, stress electrocardiograms, nuclear cardiol-
ogy, 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-Maz. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and
140.01 or equivalent senior ward medicine experience. Content of instructor.
Addison
Comprehensive service including diagnostic pulmonary
problems, Intensive Care Unit consultations. Fiber-
optic bronchoscopy and physiologic evaluation.
Students will work up patients and follow their
progress on a daily basis, discussing all aspects of their care
with pulmonary residents and attending physician.
MEDICINE.

140.11. Hematology/Oncology--C. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110.
R. Cohen
Under supervision of attending and house staff, stu-
dents review pathology and relevant clinical
laboratory data, interpret bone marrow slides, and
work up and present patients on the wards and
140.13. Geriatrics—VA. (1.5 per week) Su, F, W. Sp. Prerequisite: Medicine 110.

Lowenberg
Serving on the Geriatric Evaluation Unit team, students will have supervised patient contact covering biology of aging, changes in organ function and manifestations of disease in the elderly: pharmacokinetics of aged patients; psychosocial and rehabilitative aspects of care of the elderly. MEDICINE

140.15. Care of the Patient with AIDS at SFH. (1.0 per week) Su, F, W. Sp. Prerequisite: Completion of core clinical clerkships. Fourth-year standing. Abramson, Clement, Kaplan
Supervised by the attending physician, students will participate in the management of both inpatients and outpatients with HIV-related disease on the AIDS consult service and 1-2 days per week in the AIDS clinic. Participation in educational conferences encouraged. MEDICINE

140.16. Sexually Transmitted Diseases. (0.5 per week) Su, F, W. Sp. Prerequisite: Third-year standing. Lab 40 hours per week. Bolen
Third- and fourth-year medical students will be trained in F. P. treatment, and management of sexually transmitted diseases in the current setting. MEDICINE

140.17. Hematology—SGFRH. (1.5 per week) Su, F, W. Sp. Prerequisite: Medicine 110 or consent of instructor. Embury
Students work under supervision of fellows and faculty; review relevant clinical laboratory data; interpret bone marrow studies; see hematology patients in the inpatient and outpatient consultation service. Emphasis on sickle cell disease, other hemoglobinopathies, and coagulation problems. MEDICINE

140.18. Gastroenterology—VA. (1.5 per week) Su, F, W. Sp. Prerequisite: Medicine 110 and fourth-year standing. T. Boyer
Students share consults with GI fellows; work up patients on wards; attend endoscopes; attend rounds and conferences. MEDICINE

140.19. Cardiology—VA. (1.5 per week) Su, F, W. Sp. Prerequisite: Medicine 110.

Katzlin
Students have consultations and outcalls with cardiologists; follow up patients on wards; interpret electrocardiograms and Holter monitor studies; attend rounds and conferences. MEDICINE

140.20. Infectious Disease—UC. (1.5 per week) Su, F, W. Sp. Prerequisite: Medicine 110.

Lockley
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. Students participate in inpatient rounds and conferences. MEDICINE

140.21. Private Practice. (1.0 per week) Su, F, W. Sp. Prerequisite: Medicine 110. Approval of third- and fourth-year coordinator. Students make arrangements with primary-care physicians. Papadakis
Working experience with an internist on clinic faculty at UC in his/her practice in various private hospital and at UC, see patients in private office and on house calls, does follow-up studies, and reads electrocardiograms. MEDICINE

140.22A. Pathophysiology—Cardiovascular. (6.0) W. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Minimum class size 15; maximum class size 30. Sebastian, Doehrmann
Pathophysiology of prototype cardiac diseases. Students learn decision making, technology applications, critical evaluation of literature. Lectures, assigned readings, preceptor groups, workshops, group questions, as well as case discussions. Group discussion of students’ research on controversial topics. MEDICINE

140.22B. Pathophysiology—Hematology. (6.0) F, Sp. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Minimum class size 20; maximum class size 30. Sebastian, Sleisenger, Selman, Ries
Overall emphasis on protoype 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 list. MEDICINE

140.22C. Pathophysiology—Renal Disease. (6.0) F, Sp. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Enrollment limited. Sebastian, Sleisenger
Intensive study of renal physiology and pathophysiology. Students will be assigned a renal system, and will participate in seminars and other informal activities. MEDICINE

140.22D. Pathophysiology—OncoLOGY. (6.0) F, W, Sp. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Sebastian, Sleisenger, E. Epstein
Overall emphasis on protoype 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 list. MEDICINE

140.22E. Pathophysiology—Derm/Inf Disease. (6.0) F. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Sebastian, Sleisenger
Overall emphasis on protoype 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

140.22F. Pathophysiology—Pulmonary. (6.0) W. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Enrollment limited. Sebastian, Sleisenger, Goldin
Overall emphasis on protoype 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 list. MEDICINE

140.22G. Pathophysiology—Nephrology. (6.0) W. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Enrollment limited. Sebastian, Sleisenger, Stobo
Overall emphasis on protoype 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 list. MEDICINE

Overall emphasis on prototype 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 list. MEDICINE

140.22I. Pathophysiology—Endocrine Metabolism. (6.0) F, Sp. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Sebastian, Stawle
Overall emphasis on prototype 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 list. MEDICINE

140.22J. Pathophysiology—Immunology. (6.0) W. Prerequisite: Medicine 110, Pediatrics or Surgery 110. Enrollment limited. Sebastian, Sleisenger
Overall emphasis on prototype 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 list. MEDICINE


Karram
Students spend time at Moffit Hospital, twelfth floor south, 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 metabolic research. MEDICINE

140.24. Rheumatology & Immunology—UC. (1.5 per week) Su, F, W. Sp. Prerequisite: Medicine 110.

Sack
Familiarization with clinical manifestations, rheumatic disease therapy, immunologic disorders. Participation in inpatient or outpatient classes. Basic immunologic principles as related to clinically apparent immunologic defects. Assessment of pertinent literature, lectures, and introduction to exercise of clinical practice of various immunologic testing. MEDICINE

140.25. Renal Disease—SGFRH. (1.5 per week) Su, F, W. Sp. Prerequisite: Medicine 110 and fourth-year standing. Humphreys
Students work up and follow up patients with a wide variety of renal and electrolyte disturbances, and see outpatients in a weekly Renal Clinic. Cases are discussed with attending physicians daily. Stu-
dents also attend weekly Journal Clubs, Renal Grand Rounds, and Chief of Service Rounds.

MEDICINE

140.26. Critical Care—MZ. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Ulloa, Wooster
Primary emphasis is on the management of critically ill patients in the Coronary Care Unit and Intensive Care Unit. Includes teaching in the use of monitoring equipment, resuscitation, and related aspects of critical care medicine.

MEDICINE

140.27. Cardiopulmonary—C. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110.

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

MEDICINE

140.28. Infectious Disease—SGH. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110.

J. Mills
Course includes active consultation service averaging three hours per day. Daily patient rounds, weekly rounds on infectious diseases, and pediatric rounds. Two half-day infectious diseases clinics per week. Reading and library research.

MEDICINE

140.29. Hematology—UC. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110.

Niswan
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—SGH. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Bigler, Schambelan
The Endocrine Metabolism Service provides daily house staff/fellow-supervised consultations, three weekly clinics, biweekly rounds with senior staff, conferences on current research. Emphasis on clinical investigation of endocrine disorders in the General Clinical Research Center.

MEDICINE

140.31. Inpatient Cardiology—VA. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110. Fourth-year standing or consent of instructor.

Karlinsky
Students work as interns in the Cardiology Service, which is also the General Internal Medicine patient service and attend all regular teaching conferences and seminars.

MEDICINE

140.33. Coronary Care at Moffitt/Long. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 120, fourth-year standing or consent of instructor. A four-week cardiology elective in Medicine 140.01 is recommended.

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

140.34. Renal Disease—UC. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Cogan
Students 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 nephrology, interrelationship of renal and cardiovascular disease, and pharmacology.

MEDICINE

140.35. Cardiology—SGH. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110.

Cheldin, Rapaport, N. Goldschlag, Morelli, Doehm, Seng
Students participate in consultation on wards and clinics, read electrocardiograms, review cases with the cardiac consultant, and attend all seminars and conferences.

MEDICINE

140.36. Emergency Medicine—UC. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Schmuckler
Students serve four-hour shifts per week at emergency rooms and clinics. Emphasis is placed on the management of injuries, cardiac arrest, and poisoning.

MEDICINE

140.37. Emergency Medicine—HA. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Simon
Students serve four-hour shifts per week at emergency rooms and clinics. Emphasis is placed on the management of injuries, cardiac arrest, and poisoning.

MEDICINE

140.38. Pulmonary Medicine—SGH. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110.

Bonduy
Students examine patients in Chest Clinic, in the wards and on the surgical wards, and present them at ward rounds, pulmonary function and radiology conferences. They participate in pulmonary medicine conferences and do assigned reading.

MEDICINE

140.40. Gastroenterology—SGH. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110.

Lattanzio
Students examine patients in the Ambulatory Clinic, in the wards and on the surgical wards, and present them at ward rounds, gastrointestinal and radiology conferences. They participate in gastrointestinal medicine conferences and do assigned reading.

MEDICINE

140.42. Toxicology & Occup Med—SGH. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

C. Becker
Students participate in hospital and clinic staff meetings, and consultations from the Poison Control Center. Students participate in patient care, especially in the management of patients with poisoning, occupational disease, drug overdose, drug addiction, and alcoholism.

MEDICINE

140.43. Rheumatology & Immunology—VA. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110.

Kearns
A four- to twelve-week introduction to rheumatology and immunology, including both clinical and laboratory experience. The student will participate in inpatient and outpatient care and take part in inpatient and outpatient conferences.

MEDICINE

140.44. Endocrine Metabolism—VA. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Siperstein, Arnaud
An introduction to the diagnosis and treatment of endocrine diseases. Clinical experience is gained.

MEDICINE

140.45. Pulmonary Medicine—VA. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Murray, Hagg, Steenson
A four-week clinical experience in pulmonary disease, including critical care, thoracic surgery, and medical education.

MEDICINE

140.50. Clinical Renal Elective—VA. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110. Limited to final year students.

Pollack
Experience includes rotation in clinical nephrology, dialysis, and transplantation.

MEDICINE

140.53. Infectious Disease—MZ. (1.5 per week) F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

L. Drew, Mints
Clinical and laboratory experience providing integrated approach to infectious diseases. Emphasis on learning techniques in diagnostic medical microbiology (e.g., Gram stains, bacterial and viral cultures), and correlating these findings with clinical diagnosis and patient management. Clinical and laboratory research available.

MEDICINE

140.54. Advanced Medicine Clerkship—C. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110. Limited to fourth-year students.

Busch
Students, trained 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

140.56. Geriatric Medicine—MZ. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Feigenbaum, H. Brownstein
Offers the opportunity for participation in various medically-oriented geriatric programs. Assignments are made to either of the Geriatric Day Care Centers.

MEDICINE

140.57. Cardiology—VA. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and fourth-year standing.

Dendawin
Students see patients in the coronary care unit, wash and clinics at the University of California Teaching Facility at Fresno. They will develop and implement treatment plans for patients referred to the cardiologists and attend all seminars and conferences.

MEDICINE

140.58. Pulmonary Disease—VA. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and consent of instructor.

P. Baylor
Students on Chest Service will have primary responsibility for medical management under supervision of the Physician Director of the Respiratory Care Service. In some cases patients may be referred for intensive care procedures, and attend all seminars and conferences.

MEDICINE

140.59. Adv Med Clerkship KTCU—UC. (1.5 per week) Su, F., W. Sp. Prerequisite: Medicine 110 and consent of instructor.

Amend, Vincenti
Rotation through an active rural traumatology service including clinical immunology, clinical renal pa-
thorphology, renal diagnosis such as X-ray, bio-
opy, 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. (1.5 per week) Su, F, W, Sp. Prerequisite: Fourth-year standing.
Berkten
Experience with rheumatic diseases and chronic musculoskeletal pain including arthritides and colla-
gen-vascular disorders as seen in clinics. Development of skills in history-taking, physical examination, selection and interpretation of diagnostic procedures, approaches to management, including drug therapy. Supervision by disease chief and faculty. MEDICINE

140.61. Advanced Medicine Clerkship-VAF. (1.5 per week) Su, W, Sp. Prerequisite: Fourth-year standing.
R. Freiman
Assignments to team with first- and second-year residents; rounds with attending faculty four to five times weekly; attend daily noon conferences; in-
crease in history-taking, physical examination, use of equipment, and oral presentations. Experience in writing orders countersigned by resident. MEDICINE

140.62. Emergency Medicine-MZ. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 110 and fourth-year standing.
Savitsky
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 gastroenterology, ophthalmology, ENT, and orthopedics. Attendance at specialty conferences encouraged. MEDICINE

140.63. Advanced Medicine Clerkship-IP. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 110.
Cassoly
Fourth-year elective rotation for one month in medical wards at Kaiser Foundation Hospital in Oakland. Students will be integrated into the resi-
dency training programs and will be involved in the care of hospitalized patients as in urban community prepaid health plan hospital. MEDICINE

140.64. Cardiology-UC. (1.5 per week) W, Sp. Prerequisite: Medicine 110.
D. Perlhett, Schlesinger
Instruction in interpreting electrocardiograms as well as other diagnostic procedures used in cardiolo-
y, such as echocardiography, exercise testing, use of radiosotope, electrophysiology, hemodynamic, and radiographic studies. Students regularly attend cardiac and hypertension clinics, cardiology confer-
cences and rounds. MEDICINE

140.66. Internal Medicine-VMC. (1.5 per week) Su, W, Sp. Prerequisite: Fourth-year standing.
Larson
Student assigned to team with first- and second-
year residents, rounds with attending faculty, par-
ticipation in daily conferences. Emphasis on pa-
thophysics of disease processes. Management of acute medical problems. Refine skills in history-
taking, physical examination, write-ups, presenta-
tions, techniques of diagnostic procedures. MEDICINE

140.68. Infectious Disease-VMC & VAF. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 110.
Liliko
Management of common and unusual infectious disease. May include use of anti-microbials in pre-
ence of impaired renal or hepatic function, treat-
ment of infections in immunologically compromised host, etc. Participation in patient evaluation, treat-
ment follow-up, ward rounds, conferences. Micro-
biology laboratory can be arranged. MEDICINE

140.69. Cardiology-VMC. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 110 or consent of instructor.
Grayson
Participation with house staff in patient care on CCU, ICU, medical wards, outpatient clinics. In-
struction in newer and non-invasive diagnostic procedures, techniques of management in care of hospitalized and ambulatory patients. Attend ECG interpre-
tations, CCU rounds, consults, and teaching conferences. MEDICINE

140.70. Hematology, Oncology-VMC & VAF. (1.5 per week) Su, W, Sp. Prerequisite: Fourth-
year standing and Medicine 110.
Stolberg
Students participate in the work-up of hospitalized patients and follow-up progress of patients in spe-
cialty clinics seen in consultation by hematology oncology staff. Clinical experience is augmented by reading program, didie review sessions, tumor board meetings and specialty conferences. MEDICINE

140.71. Pulmonary Disease-VMC. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 110 or consent of instructor.
Lohe, Hirasauna
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 respiration and other aspects of respiratory care. MEDICINE

140.72. Gastroenterology-VAF. (1.5 per week) Su, W, Sp. Prerequisite: Fourth-year standing and Medicine 110.
Gillen
Participation in evaluation of patients with gastro-
intestinal problems (gastroscopy, ERCP, colonos-
coopy, liver biopsies, peritoneoscopy, bowel biopsy). on wards and in outpatient clinic. Experience includes demonstration of investigation (acid perfusion and others), weekly clinical conference, liver histology, and tutorial discussion seminars. MEDICINE

140.73. Rheumatology & Immunology-SFCH. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 110.
I. Goldberg, H. D. Feree
Students will be assigned inpatients and outpatients for work-up and management under the super-
vision of fellows and attending physicians. Students also will participate in clinical rounds, clinical con-
ferences, research seminars and journal clubs. MEDICINE

140.74. Medical Consultation-SFCH. (1.5 per week) Su, W, Sp.
Cook
Clerkship in Medical Consultation at SFCH. Also includes a half-day clinic in which preoperative medical evaluations are performed for patients about to undergo elective surgery. MEDICINE

140.75. Inpatient Medicine-K. (1.5 per week)
Su, W, Sp. Prerequisite: Medicine 110 and fourth-year standing.
Fenn
Students based at Kaiser Foundation Hospital serve as in clinical clerks. They examine patients, participate in ward rounds, and attend teaching seminars and conferences of the Department of Medicine. MEDICINE

140.77. Endocrinology/Diabetes-Fremont. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 110.
Shipit
Students gain extensive experience in care of pa-
ients with diabetes and other endocrine disease through active participation in special diabetes inpa-
tient units, ward consultations, diabetes and endo-
crine clinics, and patient educational programs in-
scor at Valley Medical Center and in the commu-
nity. MEDICINE

140.78. Critical Care Medicine-VMC. (1.5 per week) Su, W, Sp.
Hirasauna
Student participate in the management and eval-
uation of critically ill patients in the Medical Inten-
sive Care Unit. This includes the interpretation of laboratory results, blood gases and chest X-rays and the use of pulmonary ventilation and hemodynamic monitoring. Supervision is by full-time faculty with senior Medicine resident. MEDICINE

140.81. Research in Medicine. (1.5 per week) Su, W, Sp. Prerequisite: Consent of faculty member in charge of student's research project and approval of third- and fourth-year coordinator. Papadakis
Students continue previously initiated research pro-
jects under the guidance of faculty members. MEDICINE

150.03. Cancer Viruses. (1.5 per week) Su, W, Sp. Prerequisite: Basic course in microbiology.
J. A. Levy
Tissue culture techniques and animal experimentation will be used to develop serology of viral proteins in animal malignancies and autoimmune disease. Research serves as a model system for studying similar disorders in man. MEDICINE

160.03. Clinical Skills Seminar. (1) W, Sp. Pre-
requirement: Second-year standing or consent of in-
structor. Lecture 1 hour.
B. Lewis, Z. Frazier
Skills laboratory seminar designed to create a work-
ing relationship between medical and nursing stu-
dents, using teaching and acquisition of clinical and communication skills as the interactive mode. Bed-
side skills for direct patient care will be taught and practiced. MEDICINE

160.04. Med Science & Clinical Problems. (2)
Su, W, Sp. Prerequisite: Third-year standing and enrollment in the Medical Science Training Program. Lecture 1 hour. Seminar 1 hour.
D. Cox
The course designed to develop a functional per-
spective of what and how clinical problems can be approached in a basic medical research laboratory and to develop, by example, an analytical approach relating basic medical research to clinical medicine. MEDICINE

La Due, Garb
Clinical demonstrations and case presentations rep-
resenting occupational and environmental disease. MEDICINE

160.16. Clinical Medical Ethics. (1) F. Seminar 1 hour.
Lo
Introduction to clinical medical ethics through dis-
cussion of the medical ethical issues in class par-
ticipation and critical reading of articles will be re-
lquired. Topics will include bioethics, treatment, dierection regarding HIV infection, care of critically ill neonates, and allocation of resources. MEDICINE

170.01. AIDS-HIV: Overview & Update. (2) W. Lecture 2 hours, 1-2 hour panel discussion.
Papadakis, Birtowf
A problem-based, multidisciplinary course in lecture format on the biomedical, clinical, and social implications of the pandemice caused by the human immunodeficiency virus. The course includes lectures by twenty UCSF subspecialists and two panelists: SF System of Care and PHS with AIDS/AIRC.

170.05. EKG Fundamentals-VF. (1) Su, W, Sp. Prerequisite: Medicine 132A-B-C. Lecture 1 hour.
M. Goldman
170.03. EEG Interpretation. (1) W. Prequisite: Medical 131A. Lecture 1 hour. Rapaport
Review of physical principles of electroencephalo-
graphy and clinical application of electroencephalo-
graphic interpretation. MEDICINE

170.07. Non-Invasive Lab Cardiology. (1) Sp.
Prequisite: Medicine 170.05. Rapaport
Fundamentals of non-invasive laboratory cardiol-
ogic procedures will be discussed. Techniques and role of echocardiography, stress electrocardiography, Holter monitoring, photodensitometry, systo-
tic wave contours, vectorcardiography, pneumocardio-
graphy and other areas will be covered. MEDICINE

170.09. Current Topics in Med Science. (2) Su,
W, F, Sp. Lecture 2 hour. Cox, Nettie
Focus on research interests of UCSF faculty. Pro-
vides broad introduction to campus research, prac-
tice in reading and analyzing research publications.
Speaker's talk includes discussion of personal back-
ground, present research, background description
on research area, and discussion of future research
plans. MEDICINE

170.10. Intro to Occupational Medicine. (1) W,
1 hour. F, W, Sp. Lecture 2 hour. LaDon
Practice of occupational medicine as related to the
evolution, recognition, and treatment of disease and
injuries resulting from employment. Interaction of
economic, political and social forces bearing on
worker health problems. Effect of the enterprise
on the community and consumer. MEDICINE

171.11. Introduction to Environmental Medi-
cine. (1) Sp. Lecture 1 hour. La Don
Tutored concern with environmental medical problems. MEDICINE

171.12. Introduction to Geriatric Medicine. (1.5)
W. Lecture 1.5 hour. Peigensbaum
Consultation the physiology and psychology of
normal aging, health care problems of the elderly,
including constitutional states. Techniques of rehabilita-
tion medicine, use of medicines, health care
policies, multidisciplinary geriatric health care
teams, and senility in old age are reviewed.
MEDICINE

171.15. Art and Science of Health Services
Research. (3) F. Prequisite: Graduate training in
applied health services research, e.g., public health,
medical sociology, health economics, preventive
medicine. Lauffer
This course covers issues from the design and writ-
ing of grant proposals to choice of data, analytic
techniques, presentation of results, publication
strategies, and project management. Students should
be involved as dissertation or major project.
MEDICINE

180. Industrial Toxicology. (2) F. Prequisite:
Consent of instructor. Lecture 2 hour. Osterloh
To provide understanding of basic principles of
toxicology as related to work environment and
worker's health. Emphasis is on chemicals including
heavy metals and pesticides, methods of surveil-
 lance, principles of acute and chronic toxicity test-
ing. Includes lectures, student presentations, and
discussion. MEDICINE

180.02. Theory of Biomedical Ethics. (1-2) F.
Prequisite: Graduate standing and consent of
instructor. Seminar 2 hours. Paper required for 2
units. Ansley
A brief introduction to bioethics, followed by a
case-oriented approach to the understanding and
use of these basic biotechnological principles necessary
in the understanding and resolving the ethical issues in medical practice.
MEDICINE

180.01. Nation's Health. (2) F, W, or Sp. Lecture
2 hour. P. Lee and Staff
Course will address health policy issues related to
the health status of the population, the delivery of
health and health care, issues currently addressed
by the American Medical Association and by the
National Academy of Sciences.
MEDICINE

182.02. Health Policy Research Seminar. (1-2)
F, W, Sp. Prequisite: Consent of instructor. Lecture
1-2 hour. Seminar 1.5 hour. P. Lee, Halton
An introduction to the application of policy re-
search methods to current policy issues; an interdis-
ciplinary seminar. MEDICINE

183.03. Economics of Health. (3) F, W, or Sp.
Lecture 2 hour. P. Lee, Luft
Basic economic concepts and tools as applied to
problems of the health care systems. Topics to be
covered include measurement of output, demand
for care, insurance, and incentives; supply of physi-
cians' services; health sector planning; and an alter-
native view of the system. MEDICINE

198. Supervised Study. (1-5) Su, F, W, Sp. Pre-
requisite: Consent of instructor preceptor and ap-
proval of third- and fourth-year coordinator.
Patientlak
Library research and directed reading under super-
vision of a member of the faculty with the approval of
the chairman of the department. MEDICINE

Prerequisite: Consent of instructor preceptor and
approval of third- and fourth-year coordinator.
Patientlak
A laboratory research project under direction of
a member of the faculty with the approval of the
chairman of the department.
MEDICINE

200. Health & Aging. (3-4) F, Sp. Prequisite:
Graduate standing. Consent of instructor. Lecture
2-4 hour. P. Lee, H. Lipton
Examines the health status of the aged in the U.S.
in light of relevant biological, behavioral, socioeco-
nomic, and environmental factors. Social, cultural and
economic factors affecting the organization, financ-
ing, and delivery of health care to the aging popula-
tion are examined. MEDICINE

UC R. K. Root, SFHG, SFRA, VASlensger
Interns and residents present and prepare case histo-
ries of patients at medical staff conferences including
references to the literature, laboratory work, and
special studies. Faculty members and visiting pros-
ten discuss the cases and present new developments
to their respective fields.
MEDICINE

401. Interdept Clinical Correlation. (4) F, W,
Sp. R. K. Root
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 litera-
ture, guidelines for practice, and directed student
participation. MEDICINE

402. Medical Literature Seminar. (1-5) F, W,
Sp. VASlensger
Seminar on recent literature in internal medicine,
with assigned reading, required reports, and evalu-
at ion of recent material by interns, residents, and
faculty. MEDICINE

Root
Seminars are conducted in the fields of gastroen-
terology, hepatology, cardiology, radiology, electrocadi-
ography, endocrinology, chest diseases, psychosomatic medicine, arthroses and rheumatic diseases, infectious diseases, and radiology. Library research, occasionally formal reports and patient presentations are re-
quired.
MEDICINE

SFHG H. Williams and Staff
Seminars are conducted in cardiology, hepatology,
gastroenterology, infectious diseases, metabolic dis-
ase, and pathology, involving discussions, required
reading, and reports. MEDICINE

VASlensger
Seminars are conducted in cardiology, radiology,
endocrinology, 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

UC R. K. Root, SFHG, SFRA, VASlensger
Research programs are arranged with appropriate faculty members on an individual basis.
MEDICINE

407. Clinicopathological Conference. (1) F, W,
Sp.
SFHG H. Williams, VASlensger
Residents take an active part in the presentation and
discussion of problems connected with the correla-
tion of clinical manifestations of disease with
pathological studies. Conferences include reference
to the literature, clinical demonstrations, and labora-
tory work. MEDICINE

408. EEG Interpretation. (2) Su, F, W, Sp.
Sokoloski
Seminars (individual instruction) for residents in medicine and tainiers in cardiology by cardiac con-
sultants in the interpretation of all electroenceph-
algams and photoelectrograms taken at UCSF.
MEDICINE

SFHG H. Williams, UC R. K. Root
Residents are responsible for the care of patients
under the direction of the attending staff, and partic-
icipate in inpatient teaching. Third-year senior and
chief residents provide teaching and consultation service to the hospitals and outpatient clinics.
MEDICINE

Woebier
Residents are responsible for the care of patients
under the direction of the attending staff, and partic-
icipate in inpatient teaching. Resident seniors provide teaching and consultation service to the hospital and outpatient clinics. MEDICINE

512. Clinical Medicine. (1.5 per week) Su, F, W,
Sp. VAQRosemond
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

516. Clinical Primary Care. (1.5 per week) Su,
Credle and Staff
Interns in the Primary Care Track of Internal Medi-
cine are responsible for patient care in a multipro-
cility primary care clinic. Other rotations include
those common to the regular Medicine Internship
Microbiology and Immunology

Program as well as related clinical services such as Dermatology, Neurology, MEDICINE.

461. Clinical Primary Care. (1.5 per week) Su, F, W, Sp.

Gordy and Staff

Residents in the Primary Care Track of Internal Medicine are responsible for patient care in a multiprofessional 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.


SFGH 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 consultations. MEDICINE.


SFGH H. Williams

A modified "intensive" medical internship consisting of eight to nine months service in general medicine, clinic, and the emergency rooms, with three to four months work in other hospital services. MEDICINE.


UC R. K. Root

Interns are responsible for the care of patients under the direction of the attending staff, and participate in student teaching. MEDICINE.

Microbiology and Immunology

106A. Medical Immunology. (7) Prerequisite: Biochemistry 100A-B. Lecture 2 hours. Equivalent to Microbiology 121 and 100A.

W. Levinson

Lectures on the fundamentals of immunology. Small group seminars on patient-related problems in this field. MICROBOL.

106B. Medical Microbiology. (5) Prerequisite: Biochemistry 100A-B. Lecture 4 hours. Lab 3 hours. Recitation 1 hour. Equivalent to Microbiology 106.

W. Levinson

Pathogenesis of infections by bacteria, fungi, and viruses. Clinical aspects of infection and immunity, with a special emphasis on clinically important microbial diseases. Laboratory exercises and discussion of current research in the field of medical microbiology. MICROBOL.

116. Microbiology and Immunology in Dentistry. (6) W. Lecture 4 hours. Lab 6 hours.

Felson, DeFranco

Comprehensive presentation of the various subjects of microbiology including bacteria, fungi, viruses, fundamentals of infection and immunity, immunology, serology, and clinical microbiology. Laboratory exercises and demonstrations on indigenous oral flora and applications of microbiology to dentistry. MEDICINE.

120. Microbiology in Pharmacy. (3) Prerequisite: Microbiology 106.

Lacer

Fundamentals of microbiology for pharmacy students with emphasis on mechanisms of disease production by bacteria, fungi, and viruses. Antimicrobial agents, their action, mode of resistance, and toxicity. Other classes, infections, immunization. MICROBOL.

121. Immunology, (2) Prerequisite: Biochemistry 120A-B. Required course for students in the School of Pharmacy. Lecture 2 hours.

Broekly

Lectures on the fundamentals of immunology, drug hypersensitivity and immunosuppression. IMMUNOL.

127. Microbiology Laboratory. (2) Prerequisite: Microbiology 121. Lab and conference 4 hours.

Lacer

Microbiology, physiology, and immunology techniques used in laboratory diagnosis of selected bacterial diseases. Antimicrobial susceptibility testing, and sterile technique. Disinfection on vinlyol. MICROBOL.

150. Microbiology Research. (1.5 per week) Su, F, W, Sp.

Prerequisite: Microbiology 106 and consent of instructor.

W. Levinson

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

170. Medical Problem-Solving. (7) Prerequisite: Biochemistry 100A-B. Lecture 4 hours. Lab 3 hours. Conference 1 hour. Equivalent to Microbiology 121.

W. Levinson

Small-group medical problem-solving conference using real clinical cases as a springboard for exploration of underlying issues in basic and clinical sciences. Emphasis is on pathophysiologic reasoning, independent learning, and working in a group. Teaching is Socratic and minimally directive. MEDICINE.

190A. Med Immunology-Grad Students, (2) Prerequisite: Biochemistry 106B. Lecture 2 hours for nine weeks. Equivalent to Microbiology 106A and 121.

W. Levinson

Lectures on the fundamentals of immunology. Small group seminars on patient-related problems in this field. MICROBOL.

190B. Graduate Medical Microbiology. (6) Prerequisite: Biochemistry 100A-B. Lecture 4 hours. Lab 3 hours. Conference 1 hour.

W. Levinson

Pathogenesis of infection by bacteria, fungi, and viruses. Essentials of diagnosis, treatment, and epidemiology of diseases. Laboratory demonstration and exercises of essential medical skills. Problem-solving exercises and small group seminars involving clinical cases. MICROBOL.

198. Supervised Study, (1-5) Prerequisite: Consent of instructor.

W. Levinson

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

199. Laboratory Project, (1-5) Prerequisites: Consent of instructor.

W. Levinson

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

203. Cellular Immunology. (3) Prerequisite: General knowledge of immunology and biochemistry. Lecture 3 hours. Offered in alternate years. Not offered 1989-90.

DeFranco, J. W.

Goodman

Course covers chemical and genetic bases of immunogenicity, properties of immunocompetent cells, cell interactions in the immune system, and regulatory circuits. MICROBOL.

204. Immunology of B Cells. (3) Prerequisite: General knowledge of immunology. Lecture 3 hours.

G. Davis

Course will cover the molecular biology of immunoglobulins and the cellular properties of the humoral immune system. MICROBOL.

206. Molc Biology of Animal Viruses. (3) Prerequisite: General knowledge of nucleic acid structure and chemistry and multiplication of viruses. Lecture 1.5 hours. Seminar 1.5 hours. Offered in alternate years. Not offered 1980-81.

Varmus, Gazes, J. M.

Bishop, Lewint

The nature of viruses: dynamics of virus-cell interaction with emphasis on animal virus systems, control of expression of virus-specific information in lytic and temperate systems, and use of viruses in malignant transformation of cells. MICROBOL.

209. Special Topics in Immunology. (1-3) Prerequisite: Consent of instructor.

W. Levinson

W. Levinson

Small group tutorial in which topics and course content will be decided by students for discussion with the course faculty. MICROBOL.

210. Research Problems in Microbiology. (1-5) Prerequisite: Microbiology 100A, 100B and 206. Lab and conference.

Haldane

Participation in research problems in a microbiology laboratory. This is not a structured laboratory methods course, but rather a practical research experience involving basic research with pathogenic fungi. MICROBOL.


Prerequisite: Consent of instructor. Lab 6-12 hours.

DeFranco, Gazes

Laboratory research one quarter with a departmental faculty member to familiarize new graduate students with experimental approaches to microbiological and immunological problems of current interest. MICROBOL.


Prerequisite: Consent of instructor.

W. Levinson

Selected topics in graduate seminars in which graduate students present their thesis research. MICROBOL.


DeFranco, J. W.

W. Levinson

Graduate students in writing the dissertation for the Ph.D. degree. MICROBOL.

Neurological Surgery

Core clerkship—Neurology 110. Students serve as clinical clerks in the inpatient and outpatient clinics.

140.01. Advanced Neurosurgery Clerkship. (1.5 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 in operations, and taking night call on rotation with a resident. Limited to one student per neurological team. MICROBOL.

140.02. Off-Campus Clerkship. (1.5 per week) Su, F, W, Sp.

DeFranco, J. W.

Pitta, F.

Clinical clerkship in approved hospitals by special arrangement, and approval of the dean and chairman of the department. MICROBOL.


Prerequisite: Consent of instructor and department. Microsurgical training in NB Examination Part 1-40 hours per week.

DeFranco, J. W.

W. Levinson

Clinical clerkship in approved hospitals by special arrangement, and approval of the dean and chairman of the department. MICROBOL.

150.02. Other Elective. (0-3 per week) Su, F, W, Sp.

Prerequisite: Consent of instructor and department.

DeFranco, J. W.

W. Levinson

Elective work in any field of medicine or in any other approved specialty, with prior approval of the dean and chairman of the department. MICROBOL.
Neurological Surgery/Neurology

Research project under the direction of a member of the faculty. Extensive background reading will be required and discussion of important topics will be held weekly laboratory and program project research conferences. NEURO SURG

198. Supervised Study. (1-5) F, W, Sp. Prerequisite: Content 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

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 dissections on patients from the Neurological Surgery Service. NEURO SURG

403. Literature Review. (1) Su, F, W, Sp. Pitts
Recent literature in neurology and neurological surgery is presented. Discussions by members of the faculty in attendance and by visitors from other schools interested in this and related fields. NEURO SURG

Residents, under supervision, are responsible for patient care in the wards and outpatient clinics including history-taking, physical examination, laboratory tests, and consultation. In addition, the senior resident has administrative responsibility for the ward and the clinic. NEURO SURG

Residents are responsible for the care of patients under the direction of the attending staff, including history-taking, physical examination, laboratory tests, and consultation. In addition, the senior resident has teaching and administrative responsibilities required by the attending staff. NEURO SURG

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 U.C. NEURO SURG

Residents 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 Coordinator—Medicine: 132A-B-C. Lecture-democracy and seminar week devoted to the supervised examination of patients.


Layser
Students are assigned patients for study under supervision of attending and resident staffs. They attend ward rounds, attending rounds, grand rounds, conferences and laboratory seminars, emphasizing diagnosis and management of common clinical problems and psychiatric aspects of neurology. NEUROLOGY

140.01. Acting Internship Neurology. (1.5 per week) Su, F, W, Sp. Prerequisite: Neurology 110. Approval of the chairperson of the department. R. Fishman
Students act as interns on the inpatient services or on the outpatient service. Attendance at departmental rounds, seminars, and conferences is required. NEUROLOGY

140.02. Off-Campus Clerkship. (1.5 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

140.05. Advanced Neurology Clerkship. (1.5 per week) Su, F, W, Sp. Prerequisite: Neurology 110 and consent of instructor. 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. (1.5 per week) Su, F, W, Sp. Prerequisite: Neurology 110 and consent of instructor. F. S. Pearson
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

140.07. Advanced Neurology Clerkship. (1.5 per week) Su, F, W, Sp. Margolis, Perlman
Advanced students will have the opportunity to broaden and enrich their clinical neurology experience and expertise. Opportunity to participate in didactic and case conference presentations. The opportunity exists for sub specialty clinical experience (e.g. behavioral neurology, neuro muscular disease). NEUROLOGY

140.08. Pain Mechanisms and Management. (1.5 per week) Su, F, W, Sp. Prerequisite: Neurology 110 and consent of instructor. Enrollment limited. Fields, Barbero, McKay
Diagnosis and management of patients with chronic pain. Students will participate in conferences and rounds of the multidisciplinary pain service at UCSF's Pain Center. Direct patient contact will be under supervision of attending physicians (neurologists, neurosurgeons, anesthesiologists, psychiatrists). Students will learn in an environment and utilize local anesthesia and spinal blocks. They will learn pain management for acute postoperative pain, cancer pain, neuropathic pain, headache, low back pain. They will be expected to identify major psychosocial aspects of acute and chronic pain. NEUROLOGY

150.01. Neurology Research. (1.5 per week) Su, F, W, Sp. Prerequisite: Anesthesia 103.
R. Fishman
Opportunities for research in one of the departmental laboratories by arrangement with the chairperson of the department. NEUROLOGY

150.02. Neuropathology. (1.5 per week) Su, F, W, Sp. Prerequisite: Anatomy 103 and Pathology 102. R. I. Davis, Baringer
Tissue pathology of diseases of the nervous system will be explored in greater depth to its pertinent gross and microscopic techniques. NEUROLOGY

170.01. Medical Aspects of Disability. (2) F. Seminar 2 hours. Berrol, Byl
Diagnosis, medical management, and psychosocial sequelae of the major disabling conditions including spinal cord injury, closed head injury, cerebral palsy, multiple sclerosis, chronic pain, muscle dystrophy, congenital pediatric problems. 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

400. Neuroscience Seminar. (1.5 per week) Su, F, W, Sp. R. Fishman, L. Diamond
Seminar covering selected subjects in the basic sciences relevant to neurology including neurochemistry, neuroanatomy, neurophysiology, and neuropsychology. NEUROLOGY

Conference includes resident presentation and presentation of patient care histories including reference to the literature, laboratory work, and special studies. Faculty members and visiting professors from other institutions describe 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
Neurology/Neurosience


Malamede
Students spend three months or more performing supervised autopsies and pathologic studies of brain, nerve, and muscle. NEUROLOGY


Course involves pathologic and clinicopathologic research in various aspects of neurophysiology. Specific subjects of research are chosen in cooperation with members of the staff. NEUROLOGY


Course offers experience in the diagnosis and management of children with acute and chronic neurologic disorders. Outpatient clinics are held weekly for pediatric convulsive disorders and behavioral and learning problems of the schoolchild. NEUROLOGY


Habib
Residents participate in clinical evaluation of patients in preparation for rounds. Clinical teaching in neuro-ophthalmology. NEUROLOGY

Neuroscience

117. Neurobiology. (5) W. Prerequisite: First-year anatomy, physiology, and genetics. Lecture 4 hours. Lab 4 hours.

Sargant
Structure and function of the nervous system. The course will cover the fundamentals of neurophysiology and the organization of the nervous system. Emphasis will be placed on oral cavity. STOMATOLOGY

156. Neurology. (5) W. Prerequisite: First-year anatomy, physiology, and genetics. Lecture 4 hours. Lab 4 hours.

Sargent
Structure and function of the nervous system. The course will cover the fundamentals of neurophysiology and the organization of the nervous system. Emphasis will be placed on oral cavity. STOMATOLOGY

201. Principles of Neurosciences. (4) F. Prerequisite: Introduction to Neurosciences Program or permission of instructor. Lecture 2 hours. Conference 2 hours.

Hall and Staff
A one-quarter introductory course emphasizing the basic principles of cellular, molecular, and integrative neuroscience. The course will provide a general background in neuroscience by instructively treating selected topics that illustrate the questions and methods of modern neuroscience. PHYSIOLOGY

215. Laboratory Rotation. (3) F. W., Sp. Prerequisite: Consent of instructor. Lab 12 hours.

Reichard
A laboratory rotation course to familiarize new dental students with various approaches to neurobiological research.

P. S. Post Scriptum from neurological and neurosurgical patients. NEUROLOGY

103. Introduction to Nursing. (7) F. Prerequisite: Admission to Academic B.S./M.S. Program.

Glassman
Lecture 2 hours. Lab 15 hours.

C. West
Introduction to nursing and nursing process: fundamentals, terminology, facts, trends, and their application in nursing practice. PHYSIOLOGY

104. Nursing of Adults. (8) F. Prerequisite: Admission to Academic B.S./M.S. Program.

Glassman
Lecture 2 hours. Lab 21 hours.

C. West
Application of the nursing process to the physiological, psychological, and sociological aspects of regulating homeostatic mechanisms in stress. PHYSIOLOGY

105. Maternal-Child Nursing. (8) F. Prerequisite: Admission to Academic B.S./M.S. Program.

Glassman
Lecture 2 hours. Lab 21 hours.

M. S. Steward
Application of principles and theories to nursing care given during the life processes of reproduction, growth and development, and alterations due to stresses during pregnancy and child development from birth to adolescence. FAM MTH

106. Psychiatric Mental Health Nursing. (9) F. Prerequisite: Admission to Academic B.S./M.S. Program.

Glassman
Lecture 2 hours. Lab 21 hours.

J. Goldman
Principles and dynamics of personality and family development. Application of the nursing process with clients who have coping problems resulting from stresses in selected developmental or situational crisis. MENT MTH COM AD

122. Physical Assessment-The Life Span. (3-5) F.

Glassman
Lecture 3-5 hours.

M. M. Warsen
Exposure to techniques of examination, sensation, protection, and motion as they relate to adaptive mechanisms in man at the cellular level. PHYSIOLOGY

124. Professional Nursing Practice. (1) F. Prerequisite: Admission to Academic B.S./M.S. Program.

Glassman
Lecture 1 hour.

B. Holley
Course provides an introduction to the basics for professional practice and problems related to role change and reorientation in academia. Emphasis will be on use of theoretical approaches at the basic level for providing nursing care. MENT MTH COM AD

127. Adaptation in Acute Illness. (5) F. Prerequisite: Admission to Academic B.S./M.S. Program.

Glassman
Lecture 129 or concurrent enrollment. Lecture 2 hours. Lab 3 hours. Seminar 2 hours.

C. West

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 base to the professional nursing leadership role are the focus of the course. MENT HLTH COM ADM

137. Community Health Nursing. (3) Sp. Prerequisite: N124. Lecture 3 hours. Lab 15 hours.
M. Duffy
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 ADM

181. Law & Nursing Practice. (2) Sp. Lecture 2 hours.
D. Tenerenhoo
Course surveys fundamental and critical current issues in law with respect to the theory and practice of nursing. Emphasis is on legal contingencies encountered in the everyday practice of nursing in both hospital and community settings. PHYS/PSY

187. Scientific Writing. (1) J. Sp. W. Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Enroll-
ment limited.
J. Great
Course reviews biographic search methodology, the style of scientific writing, American Psychological Association (APA) editorial format, and composition of the introductory paragraph. PHYS/PSY NURS

T. Ayers
Theories and concepts of femininity, masculinity, and sexuality throughout the life cycle. Exploration of the wide range of human sexual behavior. Content includes sexual orientation, common sexual dys-
function and therapy, manipulation, homosexuality, and sexuality in some health conditions. FAM HLTH

A. Meles
Students develop in collaborative study and special problems related to nursing and health sciences under the direction of faculty. Students may select topics for study related to their area of interest.

198. Supervised Study. (1-3) S11, S22, F, W. Sp. Prerequisite: Consent of instructor. Lab 3-15 hours.
A. Meles
Students conduct independent research and/or directed reading under supervision of a faculty member with approval of the chairperson of the department.

199. Laboratory Project. (1-3) S11, S22. F, W. Sp. Prerequisite: Consent of instructor. Lab 3-15 hours.
A. Meles
Students conduct a laboratory research study under direction of a faculty member with the approval of the chairperson of the department.

201. Curriculum & Program Development. (3) J. Sp. Prerequisite: M.S. standing or consent of instructor. Lecture 1 hour. Seminar 2 hours.
N. Okamoto
Course review of educational principles, nursing models, and conceptual framework for curriculum and program development to enable students to analyze, critique, and develop curricular and pro-
gram for schools of nursing and health delivery systems. PHYS/PSY NURS

202A. Theory Development. (3-4) J. Sp. Prerequisite: Doctoral standing. Lecture 3 hours.
A. Meles
Essentials philosophically and analytically the nature of theory and relationships between philosophy, theory, and science. Provides knowledge and experience in all stages of theory development, explo-
ation and critique of epistemological and historical ideas in nursing; scholarly exchange toward inde-
pendent discovery. MENT HLTH COM ADM

202B. Prototype Theories in Nursing. (3-4) J. W. Lecture 3 hours.
S. Leff
Comparative study and critical analysis of major prototype theories from which conceptions of nurs-
ing are derived. Emphasis is placed on systemic, sym-
thetic, interactive, developmental exchange, and adap-
tation level theories. MENT HLTH COM ADM

202C. Theories & Conceptual Framework. (3-
6) J. Sp. Prerequisite: Doctoral standing. Lecture 3 hours.
A. Meles
Comparative study and critical analysis of major conceptual models and theories in nursing. Con-
str-- relationship congruency of models to prototype theories; systems, interaction, developmental, adap-
tation level theories. Emphasizes the implications of nursing theories and models for practice and re-
search. MENT HLTH COM ADM

203. Consultation Theory & Process. (3-5) J. W. Lecture 2 hours. Lab 6-3 hours.
D. Oda
Course provides a 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 consulta-
tion strategies. Optional laboratory for theory testing.
MENT HLTH COM ADM

204. Issues in Hospice Care. (3) J. Sp. Prerequisite: Consent of instructor. Seminar 3 hours.
A. Meles
Students develop an understanding of the role of the nurse in the hospice setting. Emphasis is placed on the provision of care to individuals and families faced with a terminal illness. MENT HLTH COM ADM

P. Larson
Course develops the content of advanced clinical prac-
tice relevant to the areas of focus in the doctoral program. Problems common to selected patients are explored. Phenomena are analyzed to develop knowledge for advanced nursing in clinical and administrative settings. PHYS/PSY NURS

205A. Clinical Knowledge Development. (4) J. Sp. Prerequisite: N202A. Lab 6 hours. Seminar 2 hours.
A. Meles
Course develops the content of advanced clinical prac-
tice relevant to the areas of focus in the doctoral program. Problems common to selected patients are explored. Phenomena are analyzed to develop knowledge for advanced nursing in clinical and administrative settings. PHYS/PSY NURS

205B. Clinical Knowledge Development. (4) J. Sp. Prerequisite: N202A. Lab 6 hours. Seminar 2 hours.
A. Meles
Course develops the content of advanced clinical prac-
tice relevant to the areas of focus in the doctoral program. Problems common to selected patients are explored. Phenomena are analyzed to develop knowledge for advanced nursing in clinical and administrative settings. PHYS/PSY NURS

206. Oncology Nursing. (3) W. Sp. Prerequisite: N227 and 219 or equivalent. Seminar 3 hours.
A. Meles
Course provides an overview of the specialty of oncology nursing. Emphasis is placed on the develop-
ment of knowledge and skills required to provide care to patients with cancer. MENT HLTH COM ADM

A. Meles
Students develop an understanding of the role of the nurse in the hospice setting. Emphasis is placed on the provision of care to individuals and families faced with a terminal illness. MENT HLTH COM ADM

208. Conceptualization in Nursing. (3) J. W. Prerequisite: N205A. Seminar 1 hour. Seminar 3 hours.
A. Meles
Students develop an understanding of the role of the nurse in the hospice setting. Emphasis is placed on the provision of care to individuals and families faced with a terminal illness. MENT HLTH COM ADM

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Students develop an understanding of the role of the nurse in the hospice setting. Emphasis is placed on the provision of care to individuals and families faced with a terminal illness. MENT HLTH COM ADM

211. Pediatric Nursing. (3-8) J. W. Sp. Prerequisite: N205A. Seminar 1 hour. Seminar 3 hours.
A. Meles
Students develop an understanding of the role of the nurse in the hospice setting. Emphasis is placed on the provision of care to individuals and families faced with a terminal illness. MENT HLTH COM ADM

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Students develop an understanding of the role of the nurse in the hospice setting. Emphasis is placed on the provision of care to individuals and families faced with a terminal illness. MENT HLTH COM ADM

221. Pediatric Nursing. (3-8) J. W. Sp. Prerequisite: N205A. Seminar 1 hour. Seminar 3 hours.
A. Meles
Students develop an understanding of the role of the nurse in the hospice setting. Emphasis is placed on the provision of care to individuals and families faced with a terminal illness. MENT HLTH COM ADM

Seminar focuses on measurement of selected concepts and their clinical manifestations. Existing measures are examined from theoretical, clinical, and empirical perspectives when the need for new measures is identified. FAM HLTH

208.03B. Concept Measurement in Family Health Care Nursing. (3) § W. Prerequisite: N205.01 or N205.02 or N205.03. Seminar 3 hours. Staff

Seminar focuses on measurement of selected concepts and their clinical manifestations. Existing measures are examined from theoretical, clinical, and empirical perspectives when the need for new measures is identified. MENT HLTH COM ADM

209. Social Support: Theory, Res & Meth. (2-4) § W. Prerequisite: Doctoral standing. Seminar 2 hours. Independent study optional 3 or 4 hours for 3 or 4 units.

J. Norbeck

Analysis of the literature relating 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 COM ADM

210. Family Therapies (3) § W. Lecture 3 hours. S. Weiss

Course offers a critical examination of theories guiding therapeutic work to enhance family mental health. Diverse theoretical perspectives for assessment and intervention with troubled families will be analyzed, including structural, strategic, and communication frameworks as well as psychodynamic. MENT HLTH COM ADM

211A. Introduction to Research. (3) § F. Prerequisite: Elementary statistics or equivalent. Lecture 3 hours. H. Wison

Lectures and computer-assisted instructional materials present an overview of the research process, including search and developing research questions, experimental design, instrumentation, sampling, and data analysis. Effecting views of science will be explored. Course is designed as a competency-based instructional program. PHYSIOL NURS

211.01B. Patient-Family Teaching Critique. (3) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. J. Hallberg

Course critiques studies in patient-family teaching with the intent to develop research consensus. 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 Critique. (3) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. M. Savena

Course critiques studies in maternal-child nursing with the intent to develop research consensus. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HLTH

211.03B. Survey of Health Status Research. (2-3) § F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Enrollment limited. Preference given to community health nursing specialist students. S. Laffey

Students will critically examine research on health status at the individual, group, and societal levels. Emphasis is on the concepts of health status, measurement methods, and implications of research approaches and findings for nursing practice. MENT HLTH COM ADM

211.04B. Death in Childhood Res Critique. (3) § W. Prerequisite: Nourting 211A and consent of instructor. S. Perman

1. Martinson

Course critiques studies related to the professional management of death, childhood development of the concept of death, children's response to death in the family, and the impact of death of a child on the family. FAM HLTH

211.05B. Critique: Studies in Family Health. (3) § W. Prerequisite: N211A or equivalent or consent of instructor. Seminar 3 hours C. Gillas

Course is a critique of research addressing the family and its relationship to the health and illness of family members. Research considered classic in the field will be reviewed, as will contemporary research. FAM HLTH

211.06B. Neuroscience Research Critique. (3) § S. Seminar 3 hours. R. Sisson

This course presents the scholarly process of critiquing research in neuroscience nursing. The focus is on evaluation of the research process, assimilation of the scientific basis for this specialty, and examination of implications of empirical findings for neuroscience nursing. PHYSIOL NURS

211.07B. Crit of Onc Nurs Studies. (3) § S. Prerequisite: Consent of instructor. Seminar 3 hours. M. Keldahl, P. Hallmark

Presentation of the scholarly process of critiquing published research in oncology nursing. Emphasis will be on the evaluation of the research process utilized by investigators, and the implications of empirical findings for oncology nursing practice. PHYSIOL NURS

211.08B. Critique of Management Research. (3) § W. Prerequisite: N211A or consent of instructor. Lecture 3 hours. N. Neale

The course provides a critical analysis of studies which examine organizational behavior and administrative practice. The emphasis is on attitudes, insights, and abilities crucial to appreciation, appraisal, and utilization of research in management. MENT HLTH COM ADM

211.09B. Research Critique: Critical Care. (3) § W. Prerequisite: N211A. Seminar 3 hours. V. Carrieri-Kohlman

Course critiques research studies related to the nursing assessment, in-put, and therapy of acutely ill patients with multi-system failures. Students will learn to appreciate, evaluate, and integrate research findings into their clinical practice. PHYSIOL NURS

211.10B. Critique: Studies in Child Health. (3) § W. Prerequisite: N211A or consent of instructor. Seminar 3 hours. D. Workes

Course is a critique of research addressing the health pediatric client and those experiencing chronic illness. Research considered classic in the field will be reviewed, as will contemporary research. FAM HLTH

211.12B. Oncol Hlth Res-Critical Review. (3) § W. Prerequisite: Nursing 211A or consent of instructor. Lecture 2 hours. Lab 3 hours. J. Norbeck

Critical analysis of studies exploring the relationships of the workplace to health of the worker. Emphasis is on the evaluation of the scientific literature, identification of research methods, and development of research proposals in occupational health nursing. MENT HLTH COM ADM

211.14B. Critique: Ment Hlth Outcome Studies. (3) § S. Prerequisite: N211A or consent of instructor. Seminar 3 hours. Lab 2 hours. Conference 1 hour. L. Chafetz

Course will critique outcome studies in psychosocial care of the chronically or severely mentally ill. The issues is to develop research consensus, through promotion of attitudes, insights, and abilities necessary for critical evaluation and utilization of health-related research. MENT HLTH COM ADM

211.20B. Critique-Fetal & Pediatric. (3) § S. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. D. Affons, M. Lynch

Critique of studies relating physiological or intrauterine stressors in the high-risk perinatal and pediatric patient. Course will facilitate the appreciation, appraisal, and integration of research findings into clinical practice. FAM HLTH

211.21B. Cardiopulmonary Res Critique. (3) § W. Prerequisite: N211A or consent of instructor. Lecture 2 hours. Lab 3 hours. S. Miller

Critique of cardiopulmonary research with the intent to develop research consensus, with emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. PHYSIOL NURS

211.22B. Olyt Patient Care Res Eval. (3) § S. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. V. Carrieri-Kohlman

Course critiques research studies related to the ongoing assessment, in-put, and therapy of acutely ill patients with multi-system failures. Students will learn to appreciate, evaluate, and integrate research findings into their clinical practice. PHYSIOL NURS

211.23B. International/Cross-Cultural Nursing Research. (3) § W. Prerequisite: Consent of instructor. Seminar 2 hours. Conference 1 hour. J. Lipson
Seminar focuses on critical analysis of studies in selected areas of international cross-cultural health and illness. Topics in health risk groups and situations abroad. MENT H/LTH COM ADM

211.24. Insti tutional Care of the Aged. (3) W. Prerequisite: N211. Seminar 2 hours. Field work 3 hours. J. Kayser-Jones

Seminar focuses on critical research studies in the institutional care of the elderly using a theoretical, historical, and cross-cultural approach. PHYSIOL NURS

211.25. Research Critique: Trauma/Emergence. (3) Sp. Prerequisite: N211. Seminar 3 hours.

S. Jansen-Bjerklie, B. Biers

Course is a critical analysis of studies that explore assessment and management variables in trauma and emergency nursing. Emphasis is on the critique process related to studies for application to clinical practice. PHYSIOL NURS

211.50. Basics Methodologies for Clinical Nursing Questions. (3) W. Prerequisite: N276 or consent of instructor. Lecture 2 hours. Lab 3 hours. N. G. Sklen

Course applies 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

211.52.C. 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. D. Highley

The course will be taught 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 its application to design, sampling, and content analysis. PAM H/LTH

211.52.C. Illness Management Research. (3) W. Prerequisite: N211A, or graduate course on research methods in social science, or consent of instructor. Seminar 2 hours. Lab 3 hours. Course may be repeated for credit. L. Reitn

Methods for conducting exploratory studies on social-psychological and organizational factors which affect the management of illness and delivery of health services. Problems identification, collection, analysis of data, and presentation of findings and policy implications of research are included. PHYSIOL NURS

211.54.C. Data-Gathering Methods. (3) W. Prerequisite: One course in research design. Seminar 3 hours.

Staff

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 & PAM H/LTH

212.A. Level of Psychoanalytic Theory. (3) F. Prerequisite: Consent of instructor. Lecture 2 hours. P. Ungerow

This advanced seminar, open to graduate students, focuses on theory as an approach to understanding human behavior rather than as an approach to treatment. Emphasis is on evolution of theory and use of psychoanalytic concepts in nursing research. MENT H/LTH COM ADM

212.B. Social Issues in Psych Nursing. (2) W. Prerequisite: M.S. students may take this course if they have completed N227A. Lecture 2 hours. L. Claflor

This course will examine historical and current literature, focusing on social factors and mental illness related to the severely ill in urban environments and public psychiatric treatment settings. The emphasis is on implications for nursing research and practice. MENT H/LTH COM ADM

214. Community-Based Long-Term Care. (3) W. Pr. Sp. Prerequisite: Graduate status or permission of instructor. Lecture 2 hours. Lab 2 hours. L. Reif

Course analyses empirical research and theory dealing with noninstitutionalized care. Examines criteria for admission, care, and evaluation of community-based long-term care. PHYSIOL NURS

215.A. Health in the Community. (3) F. W. Prerequisite: Consent of instructor. Lecture 3 hours. D. Oda

Course provides 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 H/LTH COM ADM

215.B. Community Health Planning. (3) F. W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. M. Duffly

Experiential pedagogy and planning models applicable to community health services. Use of the community as a base for planning and delivery of health care. Emphasis is on the role of the community in health planning. MENT H/LTH COM ADM

216. Interferon and Nervous System Stress. (2) F. Prerequisite: Graduate standing. Seminar 2 hours. A. Balchin

Course will help to enable students to evaluate the recent research and current models of stress and contemporary nursing stress. From this base, students will critically select strategies for assisting and intervening in nursing emergencies. PHYSIOL NURS

217. Psychosocial Care of Children. (3) Sp. Prerequisite: Consent of instructor. Lecture 3 hours. M. Tessler

Course explores theory related to the psychosocial experiences of illness and hospitalization for the child and his family. Focus is directed to examining trauma and promoting growth. Concurrent practice recommended. PAM H/LTH

218.A. Phenomena Common to the Nursing Care of Ill or Injured. (3) F. Prerequisite: N276. Prior or concurrent enrollment in psychol. or consent of instructor. Lecture 1 hour. Seminar 2 hours. Lab optional or 3 hours for in-service. N. Stones

Knowledge is organized around phenomena common to all ill or injured individuals across the life span. Concepts such as stress, grief, grieving, infection, consciousness, pain and coping will be examined from a theoretical and clinical perspective. PHYSIOL NURS

218.01.B. Concepts in Cardiac Surgical Nursing. (3) F. W. Prerequisite: Consent of instructor. Cardiac physiology and pathophysiology. Seminar 3 hours. P. Skol

Course analyzes the needs of cardiac surgical patients. Physiologic and pathophysiologic mechanisms and treatment approaches are explored. Issues in cardiac management are discussed from the theoretical perspective, and compared and contrasted with clinical practice. PHYSIOL NURS

218.02.B. Concepts in Neuroscience Nursing. (3) W. Prerequisite: N218A. Lecture 3 hours. R. Sisson

Course explores phenomena which are commonly experienced by patients with a neurologic diagnosis from a theoretical, scientific, and clinical practice perspective. Emphasis is on nursing interventions. PHYSIOL NURS

218.04.B. Concepts in Adult Medical Nursing. (3) F. Prerequisite: N218A. Seminar 3 hours. M. Tessler

Course analyzes the needs of the medical patient. Physiologic and pathophysiologic mechanisms and appropriate treatments are explored. Issues in clinical management are discussed from the theoretical perspective, and compared and contrasted with clinical practice. PHYSIOL NURS

218.05.B. Concepts in Oncology Nursing. (3) W. Prerequisite: N218A. Lab 2 hours, Seminar 1 hour. M. Tessler

Course analyzes the needs of the cancer patient. Physiologic and pathophysiologic mechanisms are explored from the theoretical perspective and compared and contrasted with clinical nursing practice. PHYSIOL NURS

218.06.B. Concepts in Critical Care Nursing. (3) W. Prerequisite: N218A. Seminar 3 hours. M. Tessler

Course analyzes the needs of the critically ill patient. Physiologic and pathophysiologic mechanisms and appropriate treatments are explored. Issues in clinical management are discussed from the theoretical perspective, and compared and contrasted with clinical practice. PHYSIOL NURS

218.07.B. Concepts in Trauma & Emergency Nursing. (3) W. Prerequisite: N218A and N231. Seminar 3 hours. S. Jansen-Bjerklie, B. Biers

Course examines human responses commonly experienced by trauma and emergency patients from a theoretical and clinical practice perspective. Emphasis is on scientific basis of nursing knowledge in the foundation for practice PHYSIOL NURS

218.C. Current Therapeutics. (1-5) F. Pr. Prerequisite: Physiology, N218A and 218B. Seminar 1 - 5 hours. N. Stones, C. West

Course investigates the theoretical basis of selected therapies commonly used with the ill or injured. Therapeutic aspects of interventions across as well as side effects will be explored. Recent research will be used as the basis for discussion. PHYSIOL NURS

218.D. Illness or Injury Rehabilitation. (3) F. W. Prerequisite: Graduate standing. N218A. Seminar 2 hours. Lab optional 3 hours. C. West

Examines the theoretical basis for rehabilitation of patient following physical illness or injury. Nursing therapies which promote optimal adaptation and development are evaluated utilizing relevant research as a basis. Clinical laboratory optional. PHYSIOL NURS

218.E. Trauma and Emergency Therapeutics. (3) F. W. Prerequisites: N231 and N275A-B. Seminar 3 hours. B. Biers, S. Jansen-Bjerklie

Course focuses on scientific basis of selected therapeutic interventions used in the care of trauma and emergency patients. Nursing interventions related to therapies will be evaluated and/or proposed. PHYSIOL NURS

219. Psychosocial Assessment. (3) W. Lecture 2 hours. Conference 1 hour. H. Wilson

This course critically examines diagnosis of the psychological human response and standard psychiatric disorders. Emphasis is on the use of assessment tools (e. g., Mental Status Examination, Psychiatric History, DSM-III, and PNEDE across diverse clinical areas and with clients throughout the life span. MENT H/LTH COM ADM

229.01. Adv. Seminar in Nursing Research. (3) F. W. Prerequisite: Successful completion of the qualifying examination and/or consent of instructor. Course may be repeated for credit. Seminar 3 hours. M. Tessler
Nursing

H. Wilson

220.02. Adv. Sem in Nursing Research. (3) § F, W. Prerequisite: Successful completion of the qualifying examination. Course may be repeated for credit. Seminar 3 hours.

J. Martinek

A seminar which guides students in the design and conduct of research in specialty areas in family health care nursing. FAM HTH—ADM

220.03. Adv. Sem in Nursing Research. (3) § F, W. Prerequisite: Successful completion of the qualifying examination. Seminar 3 hours.

M. Carveth-Ballman

A seminar which guides students in the design and conduct of research in specialty areas in physiologic nursing. PHYSIOL NURS

221. Pathophysiology of Cancer. (3) § F, W, Pre- requisites: Admission to graduate program and graduate physiology of the cell. Audit by permission only. Lecture 2 hours. Seminar 1 hour.

N. Lovajovj, I. Moore

Theories of cancer, the natural history of representative cancers and the mechanisms of action of certain therapeutic agents will be discussed. The clinical relevance for nursing of the associated pa- thophysiologic changes will be emphasized. PHYSI- OLOGICAL NURS

222A. Principles of Nurse Midwifery. (4) § F, W. Prerequisite: Enrollment in Nurse-Midwifery specialty. Lecture 3 hours. Lab 3 hours.

M. Barta, D. Anderson

Course critically analyzes scientific principles under- lying selected obstetric and gynecologic diagnostic and therapeutic procedures in the management of health care of women throughout the childbearing cycle. FAM HTH—UCSD

222B. Nurse Midwifery Management. (4) § W. Prerequisite: Enrollment in Nurse-Midwifery specialty. Lecture 4 hours.

V. Lapos, S. Weiner

Course extends the theoretical knowledge base of the normal physiology of pregnancy. Emphasis is placed on the developmental period with facilitation of normal processes and patient teaching. FAM HTH—UCSD

222C. Complex Probs in Nurse Midwifery. (4) § Sprerequisite: Enrollment in Nurse-Midwifery specialty. Lecture 4 hours.

V. Lapos

Course explores the theoretical concepts and prin- ciples applied to the management of pathophysi- ological and psychosocial issues complicating the birth process. Issues of professional practice, adjustment to primary care role, and maternal colla- boration and consultation are considered. FAM HTH—UCSD

223. Mental Health and Aging. (3) § F, W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours.

C. Deitrich

Course focuses on assessment and management of common mental health problems of the older adult. Topics include managing mental health care for the older adult, cultural diversity, and the integration of psychosocial and medical considerations. FAM HTH—UCSD

224. Pediatric Clinical Therapeutics. (4) § F, W. Prerequisite: Course given in conjunction with N 208 (Pediatric Critical Care Assessment). Lecture 4 hours.

M. Lynch

Course provides a conceptual approach to examine pathophysiologic phenomena identified in the pediatric critical care population. The interrelation- ships of physiology, pathophysiology, psychological, social and ethical principles of care will be explored. COURSE 2 hours.

C. Deniee

Seminar deals with advanced critical care and application of physical, cultural, and behavioral the- ories leading to clinical intervention in family pri- mary care. FAM HTH

226A. Chronic Illness & Nursing. (2) § F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

J. Hultberg

Course offers a study of problems related to long- term illness. Explores the interactions of various emotional, social, and psychosocial factors involved in chronic illness. Field experience included. FAM HTH

226B. Chronic Illness & Nursing. (3) § W. Prerequisite: N 226A or consent of instructor. Lecture 2 hours. Lab 3 hours.

J. Hultberg

Course focuses on the exploration in the illness care of patients with chronic illness and their families, including the implications for nursing. Course stresses paradigmatic and multifaceted approaches to physical, emotional, and social issues common to chronic illness. FAM HTH

227A. Theories of Psychiatric Conditions. (2) § F, W. Lecture 2 hours.

J. Lipson

This lecture seminar will emphasize the comparative study and analysis of selected psychological and sociological theories of major psychiatric conditions. FAM HTH

227B. Theories of Psychiatric Conditions. (2) § F, W. Prerequisite: Consent of instructor or enrollment in the psychiatric/mental health specialty area. Lecture 2 hours.

H. Wilson

This lecture-seminar will emphasize the comparative study and analysis of selected psychological theories of major psychiatric conditions. Both research find- ings and clinical data will be reviewed. FAM HTH—UCSD

228. Statistical Analysis Critique. (3) § F, W, Prerequisite: Basic statistics course. Open to doctoral students only by permission of instructor. Lecture 3 hours.

Staff

The course emphasizes the critique of the statistical analysis of nursing research. Statistical tests are evaluated by using the criteria of logical consistency between research question, design, statistical method, and conclusion; power for the test; and underlying mathematical assumptions. FAM HTH

151. Comparative Research Methods. (2) § W. Prerequisite: Admission to the doctoral program or consent of instructor. One quarter of theory (N 202 or 290) and research (N 278) desirable. One quarter of theory, N 200A, 200B, 200C or 290, 290, 290, and research, N 278 recommended. Seminar 2 hours.

S. Gortler

Underlying assumptions as well as design, measure- ment, and analytic methods pertinent to nursing re- search will be compared for various research meth- ods. The advantages and disadvantages of ap- proaches such as historical, descriptive, correlational, epidemiological, experimental, and action research will be examined. FAM HTH

230. Cardiovascular Pathophysiology. (3) § W. Lecture 3 hours.

P. Shov

Course is a study of pathophysiology, diagnosis, and management of cardiovascular disorders that provide the basis for the nursing management of cardiovascular disease. Focus is on the acute phase of illness. PHYSIOL NURS

231. Trauma and Emergency Pathophysiol- ogy. (3) § W. Prerequisite: N 275A-B (Physiological Basis of Health). Lecture 4 hours.

B. Bieras, S. Jansen-Hjerkjelie

Course focuses on the study of pathophysiology of injury and emergent medical conditions. Examples of clinical states commonly seen in trauma and emergency care will be analyzed. PHYSIOL NURS

232. Clinical Pharmacology in Primary Care. (0) § F, W, Prerequisite: Consent of instructor. Limited to nurse practitioner students. Lecture 3 hours.

S. Echaves

Course introduces the clinical application of phar- macology and therapeutics in the medical manage- ment of patients. Focus is on causes and conditions used in primary care. Emphasis is placed on integration of drug therapy in the care of patients. FAM HTH—UCSD


B. Highley

Emphasis is placed on the content analysis of photographs used as data sources.掛起評価のための分析のための分析結果は、研究のための自学者のデータを検討する。FAM HTH

234.01. Specilaty Research Seminar. (3) § F, W. Prerequisite: Doctoral standing or consent of instructor. Seminar 3 hours.

N. Stotts

Course evaluates research in the student's area of specialization. Emphasis is on critique of the design, methodology, and findings. Synthesis of the evalua- tion of studies results in the identification of major research questions in the field of study. PHYSIOL NURS

234.02. Specialty Research Seminar. (3) § F, W. Prerequisite: Doctoral standing or consent of instructor. Seminar 3 hours.

J. Hultberg

Course evaluates research in the student's area of specialization. Emphasis is on critique of the design, methodology, and findings. Synthesis of the evalua- tion of studies results in the identification of major research questions in the field of study. FAM HTH

234.03. Specialty Research Seminar. (3) § F, W. Prerequisite: Doctoral standing or consent of in- instructor. Seminar 3 hours.

A. Davis

Course evaluates research in the student's area of specialization. Emphasis is on critique of the design, methodology, and findings. Synthesis of the evalua- tion of studies results in the identification of major research questions in the field of study. FAM HTH

235A. Child Mental Health Counseling. (1) § F. Seminar 2 hours.

S. Wein

Course addresses client-centered and psychody- namic theories of understanding of individual counseling with children. Emphasis will be on therapeutic play and on counseling a prevention strategy involving counseling and play work with the child's psychosocial envi- ronment. FAM HTH—UCSD

235B. Child Mental Health Counseling II. (2) § F, W. Prerequisite: N 235A. Seminar 2 hours.

S. Wein

Course covers cognitive, behavioral, and gestalt theories of child mental health counseling. Theories of group counseling will also be examined. included.
23A. Child Mental Health Counseling III. (3) Sp. Prerequisite: N235A. Seminar 2 hours.
S. Weiss
Course focuses on mental health counseling of children in institutional crises. Particular emphasis is placed upon crises associated with loss, divorce, and physical illness. Terminology and related counseling relationship is also addressed. MENT HLTH COM ADM

23B. Expectant Parent Group Education. (2-3) Sp. Prerequisite: Consent of instructor. Lab 1 hour. Seminar 2 hours.
D. Affolter
Theoretical sessions are related to methodology and techniques of conducting expectant parent education group. Exploration of content relevant to concerns of expectant parents encompassing childbearing and early child rearing experiences. Concurrent practitioners recommended, but not required. FAM HLTH

237. Health Assessment through Life. (3-4) Sp. Prerequisite: Department of Family Health Care Practitioner. Approval by F.D.R. Concurrent practicum required. Lecture 2-3 hours. Lab 3 hours.
D. Goldman
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.
B. Siegel
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) F. Prerequisite: Consent of instructor. Lecture 3 hours.
M. Sawers
Course explores relevant theory, literature, and research findings dealing with normal development during the adolescent period. FAM HLTH

239. Adult Development: Young and Middle Adulthood. (3) Sp. Prerequisite: Graduate standing, Child Development, and consent of instructor. Lab 3 hours. Seminar 2 hours.
Staff
This seminar, using an anthropological, sociological, and psychological perspective, will cover developmental theory and research from young adulthood through the middle adult ages. 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. (3) Sp. Prerequisite: Enrollment in Family Nurse Practitioner Program and N237. Lecture 5 hours.
B. McLain, S. Carroll
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. (4-5) F. Prerequisite: N240A. Lecture 4-5 hours.
S. Carroll
Course presents theories, concepts, and knowledge for comprehensive assessment and management of selected episodic, stable chronic illness, and related health conditions throughout the life cycle. Emphasis will be on primary care of the family unit. FAM HLTH

240C. Family Primary Care III. (4-5) F. Prerequisite: N240A-B. Lecture 4-5 hours.
B. McLain
Course presents theories, concepts, and knowledge for comprehensive assessment and management of special problems in family primary care. Emphasis will be on care of the family unit. FAM HLTH

241A. Collaborative Role Development. (1) Sp. Prerequisite: Consent of instructor and concurrent enrollment in family clinic residency. Seminar 1 hour.
B. McLain, E. Osborn
Seminar deals with critical analysis of issues and research related to collaboration in primary care. Emphasis is on task roles and strategies of primary care, role change, and models of collaborative practice. FAM HLTH

241B. Collaborative Role Development. (1) F. Prerequisite: Consent of instructor and concurrent enrollment in primary care clinical residency. Seminar 1 hour.
B. McLain
Seminar deals with critical analysis of issues and research related to collaboration in primary care. Emphasis is on task roles and strategies of primary care, role change, and models of collaborative practice. FAM HLTH

241C. Collaborative Role Development. (1) F. Prerequisite: Successful completion of N241.10A (Role Development in Primary Care) or N241.10B (Collaborative Role Development) and concurrent primary care clinical residency (N404.03) or N405.03. Lecture 2 hours every other week.
J. Saxe, S. Carroll
Bi-weekly seminar deals with critical analysis of issues and research related to collaboration in primary care. Emphasis is on joint practice frameworks and practice management, marketing the nurse practitioner role, and legal/ethical issues. MENT HLTH COM ADM

241D. Role Development in Primary Care. (1) F. Prerequisite: Successful completion of concurrent primary care clinical residency (N404.04) or consent of the instructor. Lecture 2 hours every other week.
J. Saxe
Bi-weekly seminars offer the student clinical specialty opportunities to discover strategies for promoting role development and role satisfaction via discussions of pertinent issues and research. Emphasis is on role development, role issues, and scope and practice of the role. MENT HLTH COM ADM

241B. Professional Development in Primary Care. (1) F. Prerequisite: Successful completion of N241.10A course work, concurrent primary care clinical residency (N404.05), or consent of the instructor. Lecture 2 hours every other week.
J. Saxe
Bi-weekly seminars offer the student nurse practitioner the opportunity to discover strategies for promoting professional practice. Emphasis is on standards, evaluation, and the evolution of the nurse practitioner's practice. MENT HLTH COM ADM

242. Care of Acutely Ill Older Adults. (3) F. Prerequisite: N237. Seminar 3 hours.
M. Wallangen
Course addresses major phenomena common in the acute illness of older adult and focuses on the scientific basis for nursing management, the role of the multidisciplinary team in care management, and ethical issues that influence decision making. PHYSIOL NURS

243. Trends in Group Psychotherapy Modalities. (0.5) F, W, Sp. Prerequisite: Consent of instructor. Seminar 2 hours.
B. Furuta
Seminar is designed for graduate students of psychiatric nursing to examine and discuss theories and practice of various group modalities in current use. MENT HLTH COM ADM

244A. RN Seniors: Individ, Fam., or Comm. (2-4) F. Prerequisite: Completion of five-year requirements for the RN.BS. program in nursing or consent of instructor. Lecture 2 hours, independent study 0-6 hours.
M. Daffy, C. Gillies
Nursing 244A-C prepares students for original research through consideration of content methods and issues in an area of specialization. Nursing 244A focuses on evaluation of a content area and generation of research questions within it. MENT HLTH COM ADM

244B. RN Seniors: Individ, Fam., or Comm. (2-4) F. Prerequisite: completion of N244A or consent of instructor. Lecture 2 hours, independent study 0-6 hours.
C. Gillies, D. Durand
Nursing 244A-C builds upon prior research content to prepare students to develop and defend a plan for original research. Nursing 244A focuses on identification of research questions and criteria of design/methods in the students’ areas of interest. FAM HLTH

244C. RN Seniors: Individ, Fam., or Comm. (2-4) Sp. Prerequisite: completion of N244A or consent of instructor. Lecture 2 hours, independent study 0-6 hours.
C. Gillies, M. Daffy
Nursing 244C builds upon prior research content in the Ph.D. program to prepare students for original research through consideration of content, method, and test in the students' areas of interest. PHYSIOL NURS

245. Pediatric Critical Care Assessment. (2) F. Prerequisite: Course given in conjunction with N224 (Pediatric Critical Therapeutics). Lecture 2 hours.
M. Lynak
Course focuses on the assessment of manifestations of pathophysiological phenomena in the pediatric critical care population. This assessment provides baseline data for management decisions and nursing care interventions. FAM HLTH

M. Tesler
Course explores the evolving parent-child relationship. Focus is on adaptive tasks to manage environmental and interpersonal variables influencing the development of the parenting role. Nursing functions that support role acquisition and mastery are discussed. FAM HLTH

247A. Pediatric Family Study. (1) F. Prerequisite: N246, N279A, and enrollment in Pediatric Primary Care Program. Lab 2-3 hour visits per quarter. Seminar 2 hours.
M. Zweiback
Seminar focuses on family development in the first year of life with emphasis on parenthood, childrearing practices, growth and development, nutritional issues and family responses to pediatric primary care experience. Examines nurse’s role in provision of primary care. FAM HLTH

247B. Pediatric Family Study. (1) Sp. Prerequisite: N246, N279A, and N279B. Lab 2-3 hour visits per quarter. Seminar 2 hours.
M. Zweiback
Seminar focuses on family development in the first year of life with emphasis on parenthood, childrearing practices, growth and development, nutritional issues, and family responses to pediatric primary care experience. Examines nurse’s role in provision of primary care. FAM HLTH

248. Group Independent Study. (1-6) F, W. 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. INTERDEPARTMENTAL.

249. Independent Study. (1-5) S, 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. INTERDEPARTMENTAL.

250. Research. (1-8) S, F, W, Sp. Prerequisite: Admission to doctoral study and consent of instructor. Staff: Course offers students an opportunity to engage in research with selected faculty. INTERDEPARTMENTAL.

250.01. Research Rotation. (1-6) S, F, W, Sp. Prerequisite: Completion of first year of doctoral study and consent of adviser. Lab 3-18 hours. Staff: The student will participate in faculty research. This project may build toward the dissertation or contribute to methodological or substantive expertise. The quality of the project will be sufficient for presentation and/or publication. INTERDEPARTMENTAL.

250.02. Clinical Research Rotation. (1-6) S, F, W, Sp. Prerequisite: Completion of first year of doctoral study and consent of adviser. Lab 3-18 hours. Staff: The student will participate in a faculty clinical research project. This project may build toward the dissertation or contribute to methodological or substantive expertise. The quality of the project will be sufficient for presentation and/or publication. INTERDEPARTMENTAL.

251. Advances in Vascular Nursing. (3) SSI, SS2, SU, F, W, Sp. Prerequisite: Consent of instructor. Learning modules 10 hours. P. Skov, C. Heshler. Course examines the theoretical basis of prevention, intervention, adaptation, and rehabilitation in peripheral vascular insufficiency utilizing relevant research. Computer simulations facilitate synthesis and application of content. PHYSIOI, NURS.

252. Int/Cross-Cultural Nug Issues. (3) S, F, W, Sp. Prerequisite: Consent of instructor. Seminar 3 hours. A. Melis. Seminar examining selected international nursing issues, including primary care, nursing education and nursing service, women's roles, and patients' rights. MENT'HLT COM ADM

253. Innovative Subsystems of Nursing Care. (3) S. W. Restriction: Doctoral level—suggested D N S. Seminar 3 hours. L. Martinez. Course provides instruction in the development of a nurse-directed subsystem of care, including the capability to develop a feasible, functioning system to plan design for collection and analysis of data needed for evaluation. FAM HLT

254. Fein-Newborn Development. (2) F, W. Prerequisite: Consent of instructor. Lecture 3 hours. M. Lynch. Course is a study of body system development during embryonic, fetal, and postnatal growth. Emphasis is on normal anatomical and physiological development, critical periods of development alterations, and transitions for extra-uterine adaptations. Implications for nursing practice are explored. FAM HLT

255.01. Pediatric Health Assessment. (3) S. Prerequisite: Consent of instructor. Lecture 2 hours, Lab 3 hours. A. Alkon, D. Goldman. Course presents theoretical principles and assessment techniques for determining health status of children, including health history and physical examination. Focus is on collection and interpretation of clinical data. Laboratory and concurrent pre-requisites required. FAM HLT

255.02. Child Health Maintenance. (2-3) F. Prerequisite: Consent of instructor. Lecture 4 hours. P. Jackson, S. Clark. Course provides exploration of theories, concepts, and knowledge for comprehensive childhood maintenance, encompassing prevention and promotion. Emphasis is on parents as participants in assessment, decision-making, and management of common health problems and normal developmental stressors in infancy and childhood. FAM HLT

255.03A. Common Pediatric Illness Management. (2) S. W. Prerequisite: Consent of instructor. Lecture 2 hours. P. Jackson. Course presents theories, concepts, and knowledge for comprehensive assessment of common pediatric illnesses. Emphasizes the most common acute conditions managed by a PNP in collaboration with pediatricians. Integrates history, physical findings, diagnosis, and management. FAM HLT

255.03B. Common Pediatric Illness Management. (6) W. Prerequisite: Consent of instructor. Lecture 4 hours. A. Alkon-Leonard, S. Clark. Course presents theories, research, and knowledge for comprehensive assessment and management of common acute and chronic pediatric illnesses. Emphasizes integration of content within clinical ter-

256. Transitions & Health. (3) S, W, Sp. Lecture 3 hours. Course may be repeated for credit. A. Melis. Critical and analytical review of theories and research that links health of the individual and families to transitions and transitions. Focuses on respite and coping with situational, developmental, health, illness, and sociocultural transitions. Nursing therapeutic theories will also be explored. MENT'HLT COM ADM


258A. Family/Childbearing: Theory. (3) F. Lecture 2 hours. J. DeJoseph. Course critically analyzes psychosocial and physiological factors as they impact on the family during pregnancy and childbirth. Emphasis on evolving maternal/parental roles and tasks related to pregnancy, body image, sexuality, childbirth and parenting. FAM HLT

258B. Family/Childbearing: Theory. (3) W. Lecture 2 hours. D. Alfonsi. Course critically analyzes psychosocial and physiological factors as they impact on the family during childbirth and early parenting. Emphasis is on transition to parenthood, parental and cocoon care, and issues in effecting change to provide optimal nursing care. FAM HLT

258C. Family & Childbearing. (3) S. W. Prerequisite: Nursing 258A. Seminar 3 hours. M. Gerhawin. This clinical seminar addresses the psychosocial and pathophysiological issues of pregnancy, childbirth, parenting, and family/marital relationships during the childbearing period. Emphasis is on the role of midwife as facilitator of health adaptations. FAM HLT

259.01. Women's Reproductive Health. (1-5) F. Lecture 1-5 hours. L. Lommel, L. Simmons. Course provides exploration of theories, concepts, and knowledge necessary to maintain and promote women's health. Emphasis is on application of current research: decision-making and management of pregnancy, the interconceptional period, and the climacteric, including collaboration with health team members. FAM HLT


259.03. Women's Health: Advanced Seminar. (2) S, F. W. Prerequisite: Consent of instructor. Seminar 2 hours. W. Star. Course is an in-depth exploration of theoretical and management aspects of selected complications in obstetrics and gynecology applicable to the nurse practitioner role. FAM HLT


260B. Intl & Cross-Cultural Theor. (3) F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. A. Melis. Course explores theoretical and conceptual aspects of international and cross-cultural nursing. Topics covered include culture and cultural values, political policy and international development; health planning; ethics; and cross-cultural communication. MENT'HLT COM ADM

261. Mental Health Nursing and the Law. (2) S, W. Prerequisite: Enrollment in M.S. program in Psychiatric Nursing or consent of instructor. Lecture 2 hours. G. Gresham. Course reviews history and development of mental health legislation and legal issues in the U.S. and California. Explores current mental health laws as they relate to and influence the practice of psychiatric nurses in the public and private sector. MENT'HLT COM ADM

262A. Women's Health Refers/Issues 1. (1) S, F, W. Prerequisite: Enrollment in Women's Health Nurse Practitioner Program or consent of instructor. Seminar 2 hours (every other week). J. DeJoseph. Seminar focuses on critical analysis of issues informing role transition, role enactment, scope and control of practice, and professional growth of the women's health care provider. FAM HLT

262B. Women's Health Refers/Issues 2. (1) S, W. Prerequisite: N362A. Seminar 1 hour. S. Lomadilla, J. DeJoseph, J. Flanagan
Nursing Seminar focuses on critical analysis of issues influencing restraint and restraints of contemporary practice for nurses. The seminar provides an overview of the impact of current legal, legislative, technological, and health care delivery trends and their implications for nursing practice. The seminar is limited to 20 students. A prerequisite for the seminar is consent of instructor. 

263B. Restorative Care: Geront/LTC. (3) S. Prerequisite: N263A. Consent of instructor. Lecture 2 hours; Seminar 1 hour.

Staff

Examine restorative nursing care, including principles, concepts, and theories. Emphasis is on goal achievement and independence of individuals. Concurrent practicum is required. 

PHYSIOLOGY NURSING

264A. Model Specification. (3–5) S. Prerequisite: Enrollment in doctoral program and graduate level statistics course. Lab 0.5 hours; Seminar 2 hours.

Staff

Model course reviews and analyzes the theoretical and methodological bases of specifying and testing causal/predictive models in nursing. Analysis of the model is based on assessment of model's internal and external validity and the implications for research and practice. 

PHYSIOLOGY NURSING

264B. Model Testing and Specification. (3) S. Prerequisite: Consent of instructor. Seminar 3 hours.

Staff

Advanced methods in exploratory analysis of data and specification of models in nursing. Students test their own model using their own or a faculty-provided data base. Course emphasizes on the use of quantitative analysis for theory building. 

PHYSIOLOGY NURSING

265. Management of Clinical Occupational Health Problems. (2) F, W, Prerequisite: Consent of instructor. Seminar 2 hours.

J. Cone

Course examines management of occupational health problems. Case-oriented discussion of problems in occupational health, including medical, nursing, industrial hygiene, and epidemiological principles. Emphasis is on the clinical management of common physical illnesses in adults. 

PHYSIOLOGY NURSING

266. Applied Pathophysiology of AIDS. (3) S. Prerequisite: Undergraduate biology or consent of instructor. Lecture 1 hour; Seminar 2 hours.

N. Lovejoy, T. Moran, G. Gee

Course describes the natural history of AIDS and AIDS-related diseases. Symptomatic, clinical, diagnostic tests, treatment, and investigational protocols will also be reviewed. 

PHYSIOLOGY NURSING

267. Ethical Dilemmas & Nursing Proc. (2) S, W. Prerequisite: Graduate standing. Lecture 2 hours.

A. Davis

Examination 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. 

PHYSIOLOGY NURSING

268. Psychiatric Illness Nursing. (2) F, W. Prerequisite: N211A and enrollment in the adult or adult psychiatric nursing specialty track. Department of Mental Health, Community, and Administrative Nursing, or consent of instructor. Lecture 2 hours.

J. Chafee

Care review of the literature on psychiatric/behavioral issues in mental settings will be critically analyzed, as well as clinical studies from the area of general hospital psychiatry. 

PHYSIOLOGY NURSING

269. Historical & Contemporary Issues. (2–3) S, F, W. Prerequisite: Consent of instructor. Seminar optional 1 hour.

M. Styles

The course is designed to explore major trends and issues in contemporary nursing and health care delivery as they relate to nursing practice, education, and research. 

PHYSIOLOGY NURSING

270. Health Assessment of the Adult. (4) S. Prerequisite: Consent of instructor. Lecture 6 hours.

D. DeAmicis

Course introduces assessment techniques for determining health status of adults. Focuses upon collection and interpretation of data derived from the history and physical examination. 

PHYSIOLOGY NURSING

271A. Clinical Management in Adult Primary Care. (1–4) S. Prerequisite: N271O consent of instructor. Lecture 1–4 hours.

T. Mendelson

Course introduces primary care concepts essential to management of common physical illnesses in adults. Emphasis is on the clinical management of common physical illnesses in adults. 

PHYSIOLOGY NURSING

271B. Clinical Management in Adult Primary Care. (1–4) S, W. Prerequisite: Consent of instructor. Lecture 1–4 hours.

E. Hedges

Course introduces primary health care concepts essential to management of common physical illnesses in adults. 

PHYSIOLOGY NURSING
Nursing

Course is an analysis of history and philosophy of nursing science in the United States and abroad, addressing origins of scientific questions and activity, controversy and political viewpoints, and debates over current nursing practice and education. MENT HLTH 297A.

Family Nursing Theory. (3) F. Lecture 2 hours. Seminar 2 hours every other week.

S. Rankin
Course provides an introduction to family theories about systems, development, and stress. Lectures identify relatedness on the family and its components, and examine ways to apply family theories to nursing practice. Seminars focus on interviewing techniques to assess family health. MENT HLTH 279B.

Family Nursing Interventions. (3) W. Prerequisite: N279A (Family Nursing Theory). Lecture 3 hours.

C. Gillis
Course integrates family theoretical and therapeutic concepts. The focus is on nursing assessment and intervention strategies for identified family problems. The primary framework will utilize a systems model. MENT HLTH 279C.

Cultural Issues in Family Health. (3) W. Prerequisite: Concurrent enrollment in N 279B and consent of instructor. Lecture 1 hour. Seminar 1 hour.

F. Dreier
Course involves analysis of family, cultural, and behavioral theories and tools leading to clinical intervention in family primary care. MENT HLTH 279D.

Family Self Care. (2-3) W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours (optional).

M. Klein
Course examines self-care activities of families and their members from a family care perspective. Emphasis includes reviewing current theories, research, and practices related to family self-care in health and illness. MENT HLTH 280.

Infant Primary Health Care. (2) W. Seminar 2 hours.

J. Lipsen
Seminar is a discussion of current readings on the political economy and practical implications of community-oriented primary health care programs in the international arena, including discussion of the nurse's role in such programs. MENT HLTH COM ADM 281A.

Res. Sem: HHth & Its Correlates. (4) Sp. Prerequisite: N281A, completion of MENT HLTH in Nuring, or consent of instructor. Lab 3 hours. Seminar 3 hours.

M. Dott
Course critically examines family research involving maternal and environmental factors as they influence health and illness. MENT HLTH COM ADM

281B. Res. Sem: HHth & Its Correlates. (4) Sp. Prerequisite: N281A, completion of MENT HLTH in Nursing, or consent of instructor. Lab 3 hours. Seminar 3 hours.

M. Dott
Course critically examines family research involving maternal and environmental factors as they influence health and illness. MENT HLTH COM ADM

287A. Organizational Theory & Research. (3) F. Prerequisite: Consent of instructor. Lecture 3 hours.

M. Flood
A review and analysis of major organizational theories and research. Emphasis is on organizational theory to examine characteristics of health services, including the role of management. MENT HLTH COM ADM

287B. Behavior in Organizations. (3) W. Prerequisite: N287A and consent of instructor. Lecture 3 hours.

J. Ehrat
Course examines the characteristics, causes, and consequences of behavior and experiences of individuals at their job in organizations. Emphasis is on personnel management and ethical management functions. MENT HLTH COM ADM

287C. Processes in Administration. (3) Sp. Prerequisite: N287A and 287B or consent of instructor. Lecture 3 hours.

S. Neidlinger
Course provides a synthesis and application of management theories and administrative processes. Emphasis is on leading, organizing, controlling, decision making, managing change, and evaluating. MENT HLTH COM ADM

288A. Executive Nursing Administration. (3) F. W. Prerequisite: Consent of instructor. Seminar 3 hours.

M. Willard
Seminar is offered to doctoral students, analyzing theories and research relative to executive nursing roles in academic and service settings. Course examines administrative concepts pertaining to government, use of power, corporate design, and executive scholarship. MENT HLTH COM ADM

288B. Cost Methodology in Nursing. (3) F. W. Prerequisite: N211.08B (Computer Management Research) or equivalent, N297 (Financial Management) or equivalent, and doctoral study or consent of instructor. Lecture 3 hours. Field work 3 hours.

V. Cleland, S. Neidlinger
Course is a critical analysis and synthesis of accounting and economic principles relating to the cost of nursing care. Cost methodology is used to determine cost of service, cost averages, marginal costs, cost-effectiveness, and cost-benefit. MENT HLTH COM ADM

288C. Academic Administration Seminar. (3) F, W. Prerequisite: Consent of instructor. Seminar 3 hours.

S. Stein
Seminar is designed for doctoral students in nursing administration interested in the role of administrator. Course analyzes and evaluates theories, models, principles, and practices relative to administrative roles in diverse academic settings. MENT HLTH COM ADM

289. Labor Relations. (3) F. W. Prerequisite: Consent of instructor. Lecture 3 hours.

W. Neff
Course critically analyzes 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 ADM 290.01. Family Health Nursing Theory. (3-4) W. Prerequisite: Enrollment in doctoral program. Lab 0-3 hours. Seminar 3 hours.

S. Rastick
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. MENT HLTH 290.02. Family Health Theory. (3-4) W. Prerequisite: N290.01. Seminar 3 hours. Independent Study 0-3 hours.

M. Saverda
Course is a comparative analysis of theories/approaches for deriving a theory base for family health nursing. Emphasis is on developmental, ecological, field, conflict, stress, and adaptation theories. MENT HLTH 290.03. Family Health Theory. (3) F. W. Prerequisite: N290.01 and 290.02 or consent of instructor. Enrollment to doctoral program. Seminar 3 hours. Independent Study 0-3 hours.

C. Gillis
Individual development of a framework or model for study of a specific problem in family nursing. Emphasis is on critique of models generated by students and their applicability to research problems. MENT HLTH 291B. Pediatric Pathophysiology. (3) Sp. Lecture 3 hours.

S. Staff
A study of pathological and physiological processes in the pediatric population. Emphasis is on the body systems and the implications for nursing care. PHYSIOL NURS 291.01 Pediatric Pathophysiology Seminar. (2) W. Prerequisite: Concurrent enrollment in N 291B. Seminar 2 hours.

M. Lynch
Seminar explores the pathophysiological alterations in organ system function as influenced by developmental needs and systems immaturity. Nursing course content presented in N 291B will be applied to the nursing of pediatric critical care populations. MENT HLTH 292A. Physiology of Pregnancy. (2) F. W. Prerequisite: Consent of instructor. Lecture 2 hours.

K. Lee, L. Emits
Course reviews and analyzes advanced physiology and pathophysiology of pregnancy and their impact.
292B. Physiology of Pregnancy. (6) [W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours.]
2. Leo, J. Ontes Course reviews and analyzes advanced physiology and pathophysiology of pregnancy in a basis for practice and research. Emphasis is on cardiovascular, hematologic, neuroendocrine, and renal systems affecting adaptation and development during pregnancy. FAM HLT/TH

293. Nursing Serv & Educ Evaluation. (3) [F, W, Sp. Prerequisite: Consent of instructor. Seminar 3 hours.]
W. Holzerer Cases are utilized to demonstrate program evaluation in nursing service and education. JCAH and NLN criteria are examined. Evaluation design, instrument development, data utilization, and political components of evaluation for policy decisions making are critically analyzed. PHYSIOLOGICAL NURSING

294. Computer Management & Clinical Data. (3) [W, Prerequisite: Preference given to students in critical care specialty. Offered with consent of instructor. Lecture 2 hours. Lab 3 hours.]
K. McManus Course centers on analysis of critical care patient data using the computer. Emphasis is on conceptualizing the set of data needed for decision making and teaching the computer so as to aid in clinical decision making. PHYSIOLOGICAL NURSING

295. Quasi-Experimentation in Nurs Res. (3) [F, Sp. Prerequisite: Consent of instructor. Seminar 3 hours.]
R. Vescovini The students address validity issues of quasi-experimentation in nursing research. Devices examined in the seminar include non-equivalent control group designs, interrupted time-series designs, passive observation, and randomized experiments. PHYSIOLOGICAL NURSING

296. Teaching-Learning Process. (4) [SSS or SSW, W. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 2 hours.]
O. Kamekuro Course analyzes 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 applications and evaluations of selected teaching interactions. PHYSIOLOGICAL NURSING

297. Financial Management. (3) [W, Sp. Lecture 2 hours. Lab 3 hours.]
V. Clendan Course offers introduction to financial accounting principles as they relate to financial management in health care settings. Emphasis is on the manager's role and responsibilities in budgeting, planning, controlling, and in cost nursing care. Laboratory permits skill development. MEIINT HLT/TH COM NURSING

298. Thesis or Comprehensive Exam. (0) [F, W, Sp. Prerequisite: Advanced to candidacy and permission of the graduate advisor.]
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: Advanced to candidacy and permission of the graduate advisor.]
For graduate students engaged in writing the dissertation for the Doctor of Nursing Science (D.N.S.) or Doctor of Philosophy in Nursing degree.

401. Teaching Readiency. (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 Readiency. (4-12) [F, W, Sp. Prerequisite: Completion of Nursing 298A-B+C and 207, each with a grade of B or higher, and consent of instructor.]
Staff Opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor.

403. Consultation Readiency. (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. Clinical Readiency. (4-12) [F, W, Sp. Prerequisite: Consent of instructor. Lab 12-36 hours.]
Staff Student has opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor.

405. 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 HLT/TH COM NURSING

406A. Inpatient Clin Readiency. (8) [F, W, Sp. Prerequisite: Consent of instructor. Lab 3-34 hours.]
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. PHYSIOLOGICAL NURSING

406B. Ped Clin Readiency. (5) [W, Sp. Prerequisite: Consent of instructor. Lab 12 hours. Seminar 2 hours. Conference 1 hour.]
P. Jackson Course offers opportunity to apply and evaluate theories, concepts, and skills in the work setting under supervision of a preceptor. Focus is on development of the pediatric clinical specialty role in ambulatory child health care. FAM HLT/TH

406C. Ped Clin Readiency. (6) [Sp. Prerequisite: N406A.06A-B. Lab 16 hours. Seminar 1 hour.]
P. Jackson Course offers opportunity to apply and evaluate theories, concepts, and skills in the work setting under supervision of a preceptor. Focus is on development of the pediatric clinical specialty role in ambulatory child health care. FAM HLT/TH

406.3. Practicum in Mental Hlth & Com Nurs. (1-8) [F, W, Sp. Prerequisite: Consent of instructor. Lab 3-24 hours.]
Staff Opportunity to apply theory in clinical practice to further develop skills and to extend clinical expertise to selected aspects of mental health and community nursing. Guided clinical laboratory experience is designed to develop mastery of advanced skills. MENT HLT/TH COM ADMD

406.4. Health Assessment of the Adult Clinical Readiency. (3) [SSS. Prerequisite: Must be taken concurrently with N270. Lab 4 hours. Clinical 5 hours/week.]
Staff Application of health assessment concepts and skills under supervision of a preceptor. Performance of systematic health assessment of adults leading to a growing ability to differentiate between normal and abnormal findings to identify stressors that arise from physical, social, and developmental services, and to formulate an initial plan that reflects the above. FAM HLT/TH

406.5. Practicum in Family Hlth Care Nurs. (1-8) [F, W. Sp. Prerequisite: Consent of instructor. Lab 3-34 hours.]
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 HLT/TH

406.7. Practicum in Physiological Nursing. (1-8) [F, W, Sp. Prerequisite: Consent of instructor. Lab 3-34 hours.]
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. PHYSIOLOGICAL NURSING

406.7.1. Clin Mgmt of Older Adults. (2) [F. Sp. Prerequisite: N242 (Care of Acutely Ill Older Adults) concurrently and N257 (Biology of Aging). Lab 6 hours.]
M. Wallahan Course provides opportunity for skill development in comprehensive assessment of acute or older adults. It emphasizes problem identification as a basis for planning scientifically based care from a multidisciplinary perspective and within the context of the life continuum. PHYSIOLOGICAL NURSING

410. Teaching Practicum. (1-8) [F, W, Sp. Prerequisite: Consent of instructor. Lab 3-34 hours.]
Staff Supervised practice in selected components of the teaching role in nursing.

411A. Introduction to Computers. (3) [F, W, Sp. Lecture 2 hours.]
R. R. Luther Course presents overview of the impact of computer technology upon nursing. Focus is upon hardware and software for nursing in the mainframe and microcomputer environment. Word processing and scientific writing using IBM PC is an integral part of the class. PHYSIOLOGICAL NURSING

411B. Fiscal Modeling. (2) [W. Prerequisite: Nursing 411 A. Priority of space available to Administrative students. Lecture 2 hours.]
R. Slagle Course emphasis is on the use of the computer as a tool for the nurse manager in financial planning. PHYSIOLOGICAL NURSING

411C. Computers in Administration. (2) [Sp. Prerequisite: Nursing 411 A-B. Lecture 2 hours.]
R. Slagle Course provides an introduction to administrative information systems and their impact upon patient care. Emphasis will be on data base management systems in a nursing administrative environment. PHYSIOLOGICAL NURSING

411D. Introduction to Computers. (2) [F, W, Lecture 2 hours. Lab 1 hour.]
D. Chambers Course provides an introduction to microcomputers, focusing on word processing, DOS basics and hard disk management, hardware and software applications, and purchasing a system. PHYSIOLOGICAL NURSING

411E. Data Management. (2) [SSS, F, W. Prerequisite: Basic Information Systems or 185A-B are recommended. Lecture 1 hour. Lab 3 hours.]
S. Paul 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. PHYSIOLOGICAL NURSING

D. Goldenso Course offers opportunity to apply and evaluate theories, concepts, and skills in the work setting under supervision of a preceptor. Focus is on development of the pediatric clinical specialty role in ambulatory child health care. FAM HLT/TH

406B. Ped Clin Readiency. (5) [W, Sp. Prerequisite: Consent of instructor. Lab 12 hours. Seminar 2 hours. Conference 1 hour.]
P. Jackson Course offers opportunity to apply and evaluate theories, concepts, and skills in the work setting under supervision of a preceptor. Focus is on development of the pediatric clinical specialty role in ambulatory child health care. FAM HLT/TH

406C. Ped Clin Readiency. (6) [Sp. Prerequisite: N406A.06A-B. Lab 16 hours. Seminar 1 hour.]
P. Jackson Course offers opportunity to apply and evaluate theories, concepts, and skills in the work setting under supervision of a preceptor. Focus is on development of the pediatric clinical specialty role in ambulatory child health care. FAM HLT/TH

406.3. Practicum in Mental Hlth & Com Nurs. (1-8) [F, W, Sp. Prerequisite: Consent of instructor. Lab 3-24 hours.]
Staff Opportunity to apply theory in clinical practice to further develop skills and to extend clinical expertise to selected aspects of mental health and community nursing. Guided clinical laboratory experience is designed to develop mastery of advanced skills. MENT HLT/TH COM ADMD

406.4. Health Assessment of the Adult Clinical Readiency. (3) [SSS. Prerequisite: Must be taken concurrently with N270. Lab 4 hours. Clinical 5 hours/week.]
Staff Application of health assessment concepts and skills under supervision of a preceptor. Performance of systematic health assessment of adults leading to a growing ability to differentiate between normal and abnormal findings to identify stressors that arise from physical, social, and developmental services, and to formulate an initial plan that reflects the above. FAM HLT/TH

406.5. Practicum in Family Hlth Care Nurs. (1-8) [F, W. Sp. Prerequisite: Consent of instructor. Lab 3-34 hours.]
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 HLT/TH

406.7. Practicum in Physiological Nursing. (1-8) [F, W, Sp. Prerequisite: Consent of instructor. Lab 3-34 hours.]
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. PHYSIOLOGICAL NURSING
Nutrition
130. Human Nutrition. (2) Lecture 2 hours.
Sylusten
An introduction to the basic principles of human nutrition. Body weight 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 for the Dental Hygienist. (2) Lecture 2 hours.
Levison
Review of biochemical principles of nutrition related to development and maintenance of oral tissue, and the interrelationship of foodstuff. Emphasis will be placed on practical applications of nutritional assessment and counseling for theory/behavioral change. DENT PUB HLTH

180. Nutrition Counseling for Preventive Dentistry. (1) Lecture 1 hour; Lab 1 hour.
Prequisite: Satisfactory completion of dental hygiene program, Nutrition 130B. Limited to ten students.
Tablot
Supervised practice 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. (3-4) B.S. Prerequisite: Consent of instructor. Lecture 2-4 hours.
V. Guttierrez
Application of current maternal nutrition research to train students in working with other health professionals to offer interdisciplinary maternal nutrition counseling to the prevention of low birth weight and related disorders. Emphasis will be on cross-cultural factors in assessment and counseling. FAM HLTH

202. Family Nutrition Counseling. (3) F, S, Prerequisite: Consent of instructor. Lecture 3 hours.
Y. Guttierrez
Theory and practice in the interpretation of current concepts, principles, and research in nutrition for family counseling. Emphasis on cultural dietary patterns. FAM HLTH

208. Childhood Nutrition. (2-5) B.S. Lecture 2 hours, Module 1 hour.
Y. Guttierrez
Course provides study of nutritional principles, concepts, and knowledge related to infants and children, both healthy and ill. Emphasis is on growth processes, feeding practices, diseases-induced nutritional deficiencies, common problems, and intervention approaches. Cross-cultural aspects included. FAM HLTH

Obstetrics, Gynecology and Reproductive Sciences
110. Ob/Gyn Core Clerkship. (1.5 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 rooms, and operating room under direct supervision. OB GYN R S

140.02. Advanced Clinical Clerkships. (1.5 per week) Su, F, W, Sp. Prerequisite: Satisfactory completion of Obstetrics and Gynecology 110, Pediatrics Core Clerkship and 110, and either Medicine 110 or Surgery 110 Core Clerkships.
Braga
Advanced clinical clerkship in obstetrics and/or gynecology at another accredited hospital, as individually arranged, and approved by department. OB GYN R S

140.05. Advanced OB/Gyn Clerkship-UCMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Satisfactory completion of Obstetrics and Gynecology 110, Pediatrics 110, and Medicine 110 or Surgery 110. Open only to 4th year medical students of schools in U.S. and Canada.
Rayas, Cooke, Suelto
Practical clinical training in obstetrics and gynecology at Valley Medical Center of Fresno. Time is divided between labor and delivery experience, gynecology ward, and obstetrical and gynecological patient clinic. Students will have the opportunity to see normal, high risk, and adolescent pregnancies. OB GYN R S

140.06. Advanced Ob/Gyn Clerkship-UGH. (1.5 per week) Su, F, W, Sp. Prerequisite: Obstetrics and Gynecology 110, Pediatrics 110, and either Medicine 116 or Surgery 110, or consent of instructor.
R. Sweet and Staff
The clerk will function as an acting intern on the gynecologic inpatient service. Some gynecologic outpatient and emergency room experience will be possible as well. OB GYN R S

140.07. Advanced Gyn Clerkship-UC. (1.5 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. Class
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. (1.5 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. (1.5 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

Brown
An opportunity for first- and second-year students to spend time in clinical faculty offices and be exposed to the field of general Ob/Gyn. OB GYN R S

170.01. Sociocultural Aspects of Nutr. (1) Seminar 1 hour.
Abrams
A review of the cultural, social 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 promotion of nutritional care. OB GYN R S

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. OB GYN R S

200. 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. OB GYN R S

Ruiz
Seminar presentations in areas of 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. Biology of Reproduction. (2) S. Prerequisite: Consent of instructor. Lecture 2 hours.
Sileri
Topics include hormonal regulation of development, growth, and function of reproductive tract organs with special emphasis on the ovary and testis. OB GYN R S

331. 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. Prerequisite: Practicing physician only.
Jaffe and Staff
Conferences comprised of formal discussions by staff, faculty, and visiting lecturers. OB GYN R S

E. Hill, Braga, H. Jones
Seminar includes the presentation of pathologic material from the obstetric and gynecologic services with formal instruction and discussions. OB GYN R S

Kittles
Seminar includes presentations of special topics, literature review, and discussions. Participation by resident staff functions also are held. OB GYN R S

UC LAROS, SFGH R. Sweet, C. Webb
Residents are responsible for the care of patients in the hospital and outpatient clinics. Formal and individual instruction is conducted. OB GYN R S

Ophthalmology
Pre-Year Coordinated Instruction-Medicine 131A-B-C. Lecture-demonstrations and section work devoted to the supervised evaluation 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.
Ciklik-U. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Surgery 110 or consent of instructor.
Drake
Students will serve as subrtems on the ophthalmology ward. They will work up and present patients, attend surgery and postoperative clinics. This is an intensive clerkship where students will be on duty twenty-four hours a day twice the term. OPHTHALMOL
A research project under the direction of a member of the faculty carried out in the Department of Ophthalmology. OPHTHALMOL.

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

199. Laboratory Project. (1-5) F. W. Sp.
S. Kramer
A laboratory research project under direction of a member of the faculty with the approval of the chairman of the department. OPHTHALMOL.

400. Staff Conference. (1) F. W. Sp.
S. Kramer
Residents prepare and present diagnostic and therapeutic problem cases. Discussion by faculty and various fellows. Residents also present papers on various aspects of medicine and ophthalmology, which are discussed by faculty members. OPHTHALMOL.

S. Kramer
Conferences include grand rounds and case presentations of hospital patients, review of recent literature in ophthalmology, and assigned reading with required reports. OPHTHALMOL.

S. Kramer
Seminars include didactic lectures in practical work covering pathology, neuro-ophthalmology, uveitis, physiological optics, refraction, ocular motility, glaucoma, and microbiology. OPHTHALMOL.

403. Basic Ophthalmologic Science. (6) Su.
Required for first-year residents.
S. Kramer
Didactic lectures and demonstrations cover the basic sciences as applied to ophthalmology. These include anatomy, histology, biochemistry, physiology, and pharmacology. OPHTHALMOL.

S. Drake
Residents, under supervision, are responsible for patients in the Eye Clinic. First-year resident assist in eye surgery and the Eye Bank program. Specialty clinics include internal diseases, extracellular muscles, medical ophthalmology, ophthalmalogy, refraction, cataract, glaucoma, neuro-ophthalmology, plastic surgery, and urology. OPHTHALMOL.

UC Board, CHMC Resp. 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. Residents consult with other hospital services.

S. Kramer
Fourth-year residency takes place at UC or at any approved institution subject to the approval of the chairman of the department and the dean. OPHTHALMOL.

S. Kramer
Pitz A. Schwartz, STM R.N., Shaffer, Schatz, CHS, SSM Rathbun, RDWM 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.

S. Kramer
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 OPHTHALMOL.

Oral Biology

Lecture 1 hour
Ryder
Introduction to the etiology, pathogenesis, and diagnosis of dental caries and periodontal disease. STOMATOL.

108.02. Micro/Immuno of Caries & Parot. (2) F. Preceptor: Oral Biology 108.01. Lecture 2 hours
P. Murray
An in-depth study of the microbiology and immunology of periodontal diseases and dental caries. The formation and pathogenic potential of dental plaque are discussed. STOMATOL.

108.03. Cariology & Preventive Dentistry (3) W. Preceptor: Oral Biology 108.01 & 108.02.
Lecture 2 hours, seminar 1 hour.
Newbury
Principles in the prevention and treatment of caries. Topics covered include composition and function of dentiniferous, dietary factors in the pathogenesis of dental caries, the role of fluoride in caries prevention, and overall treatment planning for high caries risk patients. STOMATOL.

111. First Year Special Study. (2) F. Preceptor: Periodontal examination and consent of instructor. Lecture 2 hours.
Newman, Behm, Bhattachar.

Discussion of biological problems of interest in dentistry including saliva, mineral metabolism, hydroxyapatite crystal structure, connective tissue, bacterial cell walls, oral bacterial metabolism, and blood coagulation. STOMATOL.

116. Intro to Oral Biology. (2) F. Lecture 1 hour, Lab 2 hour.
Christie
Introduction to oral biology correlating morphology, chemistry, functions of dental and periodontal tissues. Topics include enamel, dentin, cementum, pulp, dental caries, tooth wear, periodontium, oral mucous membranes. STOMATOL.

199. Laboratory Project. (1-5) F. W. Sp. Preceptor: Consent of instructor. Lab 3-15 hour.
Staff
A laboratory research project under direction of a member of the faculty with the approval of the chairman of the division.

Armitage, P. Murray, Greenspan
Lectures and seminars on immunological mechanisms and their contribution to oral diseases. Topics covered include the immunology of periodontal disease, oral microbial diseases, oral autoimmune disease, and the role of the immune system in immunopathology and inflammation. STOMATOL.

209. Connective Tissue Seminar. (2) F. 2 hour.
Bhattachar
A course in connective tissue biology concerned mainly with the development, differentiation, and pathology of connective tissues, including topics such as regulatory controls of connective tissue macromolecules, fibrosis, wound healing, inflammation, tissue destruction, and selected genetic disorders. STOMATOL.

Pereira
Small group tutorial in which special topics in virology and correlated reading will be selected for discussion by students and staff members. STOMATOL.

215. Laboratory Rotation. (4) F., W., Sp. Preceptor: Consent of instructor. Lab 12 hours.
Staff
A laboratory rotation course to familiarize first-year graduate students with various approaches to research in oral Biology, STOMATOL.

Staff
A seminar series covering current advances in research in oral biology in a systematic manner. Cur
Oral Biology/Oral Diagnosis

rest literature will be critically reviewed by students under faculty supervision, or by faculty or guest instructors. STOMATOL.

221. Extracellular Matrixes. (2) F or W or Sp. Offered in alternate years; inquire in Oral Biology office for next offering. Prerequisites: Consent of graduate advisor and instructor. Seminar 2 hours.

Fisher, Darnsky, Kramer

Assembly and composition of extracellular matrixes, including interactions that occur between cells and matrixes. Emphasis on the role of various extracellular matrixes during development, function of cell-matrix interactions in the adult, and the perturbations of these relationships that accompany various disease processes. STOMATOL.

222. Mineralization. (2) F or W or Sp. Offered in alternate years; inquire in Oral Biology office for next offering. Prerequisite: Oral Biology 221. Consent of graduate advisor and instructor. Seminar 2 hours.

Darnsky

Recent information on cell biology and physiology of mineralized tissues, and cell biology and development of cell types that produce the extracellular matrices that are subsequently mineralized. Emphasis on process of mineralization and the hormone regulation of mineral deposition and mobilization. STOMATOL.

223. Saliva and Salivary Glands. (2) F or W or Sp. Offered in alternate years; inquire in Oral Biology office for next offering. Prerequisite: Consent of graduate advisor and instructor. Seminar 2 hours.

Newbrun

This course will present recent information on the composition, regulation and function of the secretions from the major and minor salivary glands. Special considerations will be given to salivary gland dysfunction and its consequences. STOMATOL.

224. Host Response. (2) F or W or Sp. Offered in alternate years; inquire in Oral Biology office for next offering. Prerequisite: Consent of graduate advisor and instructor. Seminar 2 hours.

Davidson, Khoury, Pappo

Components of the immune system, survey of the various immunologic mechanisms in host responses, and current working concepts of the immune system. Overview of consequences that failure, exaggeration, or inability to distinguish self from non-self, may have for the host. STOMATOL.

225. Oral Microbiology I. (2) F or W or Sp. Offered in alternate years; inquire in Oral Biology office for next offering. Prerequisite: Consent of graduate advisor and instructor. Seminar 2 hours.

Fenton, Newbrun, and Staff

Current information on pathogenic mechanisms involved in oral diseases, with emphasis on the structure metabolism, genetics and ecological relationships of oral microorganisms. STOMATOL.

Oral Diagnosis


Rosensweig, Danford, Migliorati

Dental clinical problem solving: recognition and resolution. Clinical activities include review of medical and dental histories, examination of oral and para-oral structures; radiographic interpretation, technique and interpretation; referral for appropriate medical or dental treatment; diagnosis and treatment of acral dental problems; management of the dental patient in pain, or desiring comprehensive dental treatment. STOMATOL.


Rosensweig, Danford, Migliorati

Recognition and resolution of dental clinical problems. Emphasis is on management of the patient in pain during clinical hours and on-call after hours. Students will examine oral and para-oral structures; review case histories for clinical implications for dental therapy; prescribe, make and interpret dental radiographs; treat or refer to appropriate sources. Senior students will take the role of teaching assistants for their junior partners. Seniors will present cases. STOMATOL.

169. Hygiene's Role in Recog of Dental Disease. (0-1) Su., F., W., Sp. Prerequisite: Oral 129 or 159, senior dental hygiene status. Clinic 3 hours.

Rosensweig, Angin, Danford

In the clinical setting, the students review medical and dental histories; examine oral and para-oral structures; make intra- and extraoral dental radiographic prints and present all findings; function as a team member in delivery of treatment of dental disease with the dental students and faculty. Emphasis is on the role of the patient visit for routine or emergency care to the Dental School. STOMATOL.

189. Acute Dental Care Clerkship. (1-10) SS, SS2, F., W., Sp.

Rosensweig, Danford

Advanced instruction and clinical experience in the diagnosis and treatment of acute dental problems. STOMATOL.

Oral & Maxillofacial Surgery

109. Clinical Oral Surgery. (0-5) SS, F., W., Sp. Prerequisite: Third year standing. For senior rotation, students must have passed Oral & Max Surg. Oral Surg. 120, 130A, 130, 130D, 130, 131 and 132 have consent from the course supervisor. Clinic variable.

R. Smith, Gordon, Pogrel

Student learns to recognize and treat common dental and medical emergencies; perform routine extractions and minor oral surgical procedures; assist on major procedures in operating room setting, utilize common techniques of pain and anxiety control; evaluate medical history, work-up and discharge of hospital patients. ORAL & MAX SURG.

120. Local Anesthesia. (0.5) Sp.

R. Smith, Gordon, Perrott

Covers local anesthesia and techniques as they pertain to the dental and oral cavity. ORAL & MAX SURG.

Oral Diagnosis/Oral & Maxillofacial Surgery

130.01. Dentin/Bone Surgery. (2) SS. Prerequisite: Anatomy 117A-B and Microbiology 126A-B. Lecture and seminar.

Gordon, R. Smith, Perrott

An introduction to the basic principles of exodontia, dentin-bone surgery, osseous surgery, coronal and subcoronal ortho care, and management of common complications. ORAL & MAX SURG.

130.02. Pain & Anxiety Control. (1) F. Prerequisite: Anatomy 117A-B and Microbiology 126A-B. Lecture 1 hour.

Gordon, R. Smith, Perrott

A didactic course outlining the basic principles and techniques of pain and anxiety control in the dental office. Emphasis is on intravenous sedation and intravenous sedation. ORAL & MAX SURG.

130.03. Diagnosis & Treatment of Pain. (1) W. Prerequisite: Anatomy 117A-B and Microbiology 126A-B. Lecture 1 hour.

R. Smith, Gordon, Kaban

A didactic course covering current advances in the field of pain, and a variety of topics such as: physical evaluation of the patient, temporo-mandibular joint dysfunction, myofacial pain, and orofacial pain. ORAL & MAX SURG.


R. Smith, N. Gordon, Kaban

Procedural skills and academic knowledge the general dentist should be familiar with includes pre-prosthetic surgery and implantology, treatment of developmental and acquired deformities of the jaws, infections, temporomandibular joint, fractures of the jaws and contiguous structures, osteomyelitis. ORAL & MAX SURG.

132. Medical Emergencies & CPR. (1) F.

R. A. Smith

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 drug and development of an office emergency kit. Demonstrations of parenteral administration of drug. ORAL & MAX SURG.


R. Smith, Gordon

Clinical supervision at UC, affiliated institutions, or others. Students participate in oral surgery care and ambulatory and hospitalized patients and attend seminars and lectures. ORAL & MAX SURG.

199. Laboratory Project. (5-8) F, W. Prerequisite: Approval of laboratory project by department chairman.

Kaban & Staff
Oral Medicine

Introduction to recognition, diagnosis and treatment of oral manifestations of systemic diseases, and principles of clinical medicine through presentation of the mechanism, diagnosis and treatment of common organ system diseases. Will present modifications necessary for the dental treatment of patients with these diseases. STOMATOLOGY

130. Clinical Oral Medicine. (2) Su. Prerequisite: Oral Medicine 122; junior standing. Lecture 2 hours per 2 weeks.
Silverman.
History taking, differential diagnosis, and therapeutic signs, symptoms, diagnosis, and treatment of oral mucosal diseases with emphasis on oncology. Management problems and solutions. STOMATOLOGY

139. Oral Medicine, (6) Sp. Prerequisite: Oral Medicine 129V. Lecture and clinical 2 hours.
Chung, Caswell and Staff.
Group rotates through five-week sections: clinical diagnosis-patient presentation; history-taking, examination, diagnosis, treatment, and follow-up; and medicine-introduction to internal medicine and physical diagnosis. STOMATOLOGY

Silverman and Staff.
Clinical pathology conferences; 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

189. Clinical Oral Medicine. (1) Su, F, W. Prerequisite: Third- or fourth-year standing and consent of instructor. Clinic 3 hours.
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

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 chairman of the department. STOMATOLOGY

Oral Radiology

111. Principles of Diagnostic Radiology. (1) F. Lecture 1 hour.
T.L. Green.
Introductions to the fundamentals of radiographic interpretation, some of the basic physics of X-ray generation, and radiation biology. STOMATOLOGY

129. Basic Radiographic Techniques (0-2) W. Sp. Lab 3 hours.
Rosenquist, Angin.
Introduces dental and dental hygiene students to basic radiographic techniques: perpendicular, horizontal, occlusal, oblique and panoramic. Through the use of mannekins, provides skills necessary for the transition to the clinics. Equal lab hours required by the California State Board of Dental Examiners for radiations safety. STOMATOLOGY

T.L. Green.
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

186.01. Advanced Oral Radiology. (0-3) F, W. Prerequisite: Oral Radiology 121. Approval of Clinic Review Committee. Seminar 1-2 hours. Clinic 0-6 hours.
Staff.
Combination of Oral Radiology 121 and 131 in a seminar teaching format. STOMATOLOGY

Staff.
A laboratory research project under direction of a member of the faculty with the approval of the chairman of the department. STOMATOLOGY
Orthodontics

Course describes the mode of growth of the maxillofacial complex. General aspects of growth with clinical implications for the growing child are discussed, including the eruption of teeth and their correlation with facial growth. GR. DDEV.

131.01. Orthodontics in General Practice. (2-S) Sp. Prerequisite: Orthodontics 121. Lecture 2 hours.
R. Boyd, Nielsen, G. Young
Recognition and treatment of orthodontic problems most commonly seen by the general practitioner. GR. DDEV.

131.02. Orthodontics in General Practice. (2-P) Prerequisite: Orthodontics 121. Lecture 2 hours.
R. Boyd, Nielsen, G. Young
Recognition and treatment of orthodontic problems most commonly seen by the general practitioner. GR. DDEV.

139. Clinical Orthodontics. (0-8) Sa, F, W, Sp. Prerequisite: Orthodontics 121 and 131.01-02. Orthodontics 131.01 or 131.02 may be taken concurrently. Clinic 3 hours.
R. Boyd, G. Young
Evaluation and treatment of clinical orthodontic problems as experienced in general dental practice. Students will treat patients and refer others to specialists. GR. DDEV.

R. Lee
A discussion of recognition, etiology, and principles of orthodontics for the dental hygienist. GR. DDEV.

170A-B-C-D-E. Orthodontic Diagnosis. (1-1-1-1) SS1, SS2, F, W, Sp. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour.
E. West
Classification, etiology, and diagnosis of malocclusion. The various diagnostic modalities used in patient evaluation and treatment planning will be presented. GR. DDEV.

170A-B-C-E. Journal Club. (1-1-1) F, W. Sp. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour.
E. West
A participation course in the review, analysis, and critical evaluation of the professional literature dealing with orthodontics and its related fields. GR. DDEV.

171. Orthodontics in Periodontic Pract. (1-P) 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. DDEV.

171D. Concepts of Occlusion. (1) SS1, Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour.
I. Nielsen
Various concepts of occlusion and its biological determination will be discussed and the effects on functional problems of the maxillofacial joint. GR. DDEV.

172A-B-C. Practice Management. (2-2-2) F, W, Sp. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 2 hours.
R. Meyer
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. Several sessions representing different areas are invited to present guest seminars. GR. DDEV.

171F. Functional Appliance Therapy. (2-2-2) SS1, SS2. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 2 hours.
Scholz
This course is designed to provide the skills necessary to select the appropriate functional appliance, design the appliance, purchase the appliance to the making of the appliance, and manage the patient's treatment to a successful conclusion. GR. DDEV.

171A-B-C-D-E. Growth & Development. (1-1-1-1) F, W, Sp, SS1, SS2. Lecture 1 hour.
Isachsen, Nielsen
Orthodontic applications and implications of basic craniofacial growth and development. GR. DDEV.

172A-B-C-D-E. Evaluation of Facial Form I. (2-2-2-2-2) F, W, Sp, SS1, SS2. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 2 hours.
Nielsen, Quinn
Use of diagnostic radiographs in the evaluation of the developing maxillofacial complex is presented. GR. DDEV.

172A-B-C-D-E. Research Design. (1-1-1) F, W, Sp. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour.
Baumeland
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. DDEV.

172A-B-C-D. Evaluation of Facial Form II. (2-2-2-2) F, W, Sp. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 2 hours.
Nielsen
Course teaches diagnosis, treatment planning, and treatment of all types of malocclusions on a systematic basis. The biologic basis for orthodontic treatment with respect to facial growth and development and the application of differential diagnosis is presented. GR. DDEV.

172B-C. Orthognathic Surgery Conference. (1-1-1) F, W, Sp. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour.
E. West
Postgraduate students in orthognathics, 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. DDEV.

173A-B-C-D-E. Orthodontic Seminar. (0-3-3-3-3-3-3-3) F, W, Sp, SS1, SS2. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Seminar 5 hours.
Baumeland
Evaluation and treatment planning of various types of malocclusion will be presented. The seminar will include discussions of various basic sciences, clinical science, and general biological principles, as they apply to the field of orthodontics. GR. DDEV.

173D. Private Practice Seminar. (0-3) F, W, Sp. Prerequisite: Enrollment in postgraduate orthodontic program or consent of instructor. Seminar 1 hour.
Riggioh
This seminar is designed to implement the second-year residents' postgraduate orthodontic education with the private practice of orthodontics. GR. DDEV.

174. Biomechanics & Tooth Movement. (2) W, SS1, SS2. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 2 hours.

Yoshikawa
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. DDEV.

174A. Periodontics & Orthodontics. (1) Su. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 1-2 hours.
E. West
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. DDEV.

174B. Orthodontic Techniques. (1) SS1, SS2. Prerequisite: Enrollment in postgraduate orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour.
McNeill, Nielsen
A lecture and participation course designed to familiarize the postgraduate student with orthodontic appliances, their fabrication, and adjustment. GR. DDEV.


175A-B-C. TMJ Pain & Dysfunction Clinic. (0-3) F, W, Sp. Prerequisite: Resident standing in Orthodontics. Clinic 3 hours.

176A-B-C. TMJ Pain & Dysfunction Clinic. (0-3) F, W, Sp. Prerequisite: Resident standing in Orthodontics. Clinic 3 hours.
Orthodontics/Orthopedic Surgery

patients with a broad spectrum of orthodontic problems. Students will work with other specialties in the management of complex orthodontic problems. GR. DEVIL.

179.0A-B-C-D-E. Clinical Orthodontics II. (0-7) SS1, SS2, F, W, Sp. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lab variable. Clinic: 2-62 hours. Boyd. Diagnosis, treatment, and evaluation of clinical postdoctoral orthodontic problems as experienced in modern orthodontic practice. Students will treat patients with a broad spectrum of orthodontic problems. Students will work with other specialties in the management of complex orthodontic problems. GR. DEVIL.

179.0A-B-C-D-E. Ortho General Interaction. (1-1-1-1) F, W, Sp, Spring. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Clinic: 3 hours. R. Boyd. Evaluation and treatment of clinical orthodontic problems, as experienced in general dental practice. Postdoctoral students will assist and supervise general dental students in the diagnosis, evaluation, and treatment of orthodontic problems. Emphasis is on the relationship between generalist and specialist. GR. DEVIL.

Adv Orthodontics in Gen Practice. (6-8) F, W, Sp. Prerequisite: Orthodontics 131B, Seminar 1 hour. R. 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. Students may elect to participate in two quarters per week in off-campus seminars. GR. DEVIL.

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 service on eight orthopaedic lectures, case presentations, and outpatient clinical assignments. Students are given instruction in methods of examination of patients with musculoskeletal disorders, with emphasis on diagnosis and principles of treatment. 140.0A-B-C-D-E. Clin Clerkship—UCSF-UCSF FR-VA. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111. Must be a senior. W. Murray, Day, Mauner.

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. (1.5 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–S & VA. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 or Pediatrics 110. Carpendale Course will provide knowledge and skills in electrodiagnosis, neurologic rehabilitation, spinal cord injury, closed head trauma, the musculoskeletal patient, orthopaedic rehabilitation, hazards of bed rest, and acute and chronic low back pain. ORTHO SURG.

150.01. Research in Orthopaedic Surgery. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111 and permission of instructor. Day Research project under direction of a member of the faculty. ORTHO SURG.

160.01. Fracture Conference. (1) Su, F, W, Sp. Conference 1 hour. Skinner Fracture conference on patients admitted to the emergency room, with emphasis on X-ray findings and treatment modalities. ORTHO SURG.

401. Orthopaedic Pathology. (1) F, W, Sp. Prerequisite: Third-and fourth-year residents. UC. J. Johnson A lecture series covering tumors and infections of the musculoskeletal system, illustrated by microscopie slides and photographs of gross specimens. ORTHO SURG.

402. Musculoskeletal System Physical. (1) F, W, Sp. UC Day Seminar covers connective tissue metabolism, muscle, bone, and joint physiology; preoperative and postoperative management of patients; wound infections; microbiology; and surgical principles. ORTHO SURG.

403. Gross & Functional Anatomy. (2) F, W, Sp. UC Day Course includes lectures by students and faculty on gross and functional anatomy, laboratory dissections of cadaver material, and demonstrations of surgical approaches. ORTHO SURG.

404. Orthopaedic Literature. (1) F, W, Sp. Residents at UC, RAND, SF SHR, SBF, UCSF, and VA. UC Day Seminars are student presentations of selected orthopaedic surgery subjects from the literature review complete with bibliography. They are moderated by an assigned faculty member. ORTHO SURG.

406. Orthopaedic Medical Staff Conf. (1) Su, F, W, Sp. UC. W. Murray Clinical function in the care and management of orthopaedic problems in rheumatoid arthritis and allied diseases. Cases are presented by residents to attending staff and rheumatology consultants. ORTHO SURG.

407. Orthopaedic Surgical Conference. (1) Su, F, W, Sp. H Slabaugh 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. SSFH L. Day Selected problems are illustrated by cases treated or under treatment. Cases are presented by the residents and discussed by members of the attending staff. ORTHO SURG.


529. Traumatic & Adult Orthopaedics. (1.5 per week) Su, F, W, Sp. SFH. SSFH SSFH SFH L. Day, SSFH SSFH VA. Mauzer, 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.

539. Clinical Orthopaedics. (1.5 per week) Su, F, W, Sp. 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-based fund; independently performs operative procedures in selected cases; advises interns, residents, and fourth-year medical students; participates in paramedical teaching. ORTHO SURG.

535. Clinical Sports Medicine. (1) Su, F, W, Sp. J. Glock 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—SFHF. (1.5 per week) Su, F, W, Sp. L. Day Residents rotate through orthopaedic wards and follow-up clinics. They are responsible for patient care under the direction of the attending staff, in-
Orthopaedic Surgery/Otolaryngology

clad by history-taking, physical examinations, X-ray conferences, and consultations. ORTHO SONG

Otolaryngology

First-Year Coordinated Instruction—Medicine 131A-B-C. Lecture-demonstrations and sections work devoted to the supervised examination of patients.

Core Clerkship—Surgery 110 and 111 include lecture and case demonstrations on the examination and diagnosis of otolaryngologic diseases, particularly those related to trauma and infection. Instruction is given in the examination and diagnosis of ward and clinic patients with otolaryngologic surgical diseases.

140.01A. Adv Otolaryngology Clinic (1.5 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 Clinic (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and Surgery 110. Kaplan

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 Clinic-SFGH (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and Surgery 110. Wilkins

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 Clinic (1.5 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

140.01E. Adv Otolaryngology Clinic-NRCMC (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and Surgery 110. 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 (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C and Surgery 110. Boles

Clinical clerkships in off-campus hospitals approved by the chairperson of the department and the dean. OTOLARYN

140.03. Otology and Neurotology (1.5 per week) Su, F, W, Sp. Prerequisite: Third or fourth year (fifth preferred). Jackler, Schindler

A course in basic audiology and vestibular testing, diagnosis and management of diseases of the ear and skull base; and experience with surgery for hearing restoration, treatment of vertigo, and for removal of ear and skull base neoplasms. OTOLARYN

198. Supervised Study (1.0F) F, W, Sp. Prerequisite: 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 (1.5F) F, W, Sp. Prerequisite: Consent of instructor. Moretzsch

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

400. Didactic Lectures. (2) Su, F, W, Sp. Sooty

Lectures cover the anatomical, physiological, and clinical aspects of otolaryngology. OTOLARYN

401. Head & Neck Surgical Anatomy (1) Su. Seminar 2 hours. Kaplan

Didactic sessions in the surgical anatomy of the head and neck; Supplemental discussions included. OTOLARYN

404. Staff Rounds. (2) Su, F, W, Sp. Boles

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

406. Tumor Conference. (1) Su, F, W, Sp. UC Kaplan

Conference includes presentation of patients, study of histology, and discussion of the treatment of the patient in light of modern progress in the field. OTOLARYN

407. Head & Neck Plastic Surgery. (1) F. Seminar 2 hours. Wilkins

Basic science and clinical aspects of cosmetic facial surgery and reconstructive surgery of the head and neck are covered in a weekly one-hour seminar. OTOLARYN

Slide presentations, videotape movies, didactic lectures, and anatomic dissections constitute the curriculum. OTOLARYN

410. Temporal Bone Anat & Pathology (0.5-0.5F). Laboratory 2 hours. Jackler

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. VA Kaplan

Tumor cases are presented for diagnostic and treatment recommendations for treatment. OTOLARYN

413. Audiology Conference. (1) Su, F, W, Sp. VA Kaplan

Combined Audiology and Otolaryngology Staff Conference where all patients evaluated for hearing problems are presented, and diagnosis and treatment recommendations are made. OTOLARYN

415. Otolaryngology Fundamentals Course. (1) F. Seminar 3 hours. Jackler, Kaplan, Sooty

A review of fundamental principles of otolaryngology head and neck surgery, encompassing both the basic and clinical sciences. This course is intended as a comprehensive review for the yearly "in service" training examination as well as preparation for board certification. OTOLARYN

450. Clinical Otolaryngology (10) Su, F, W, UC Boles, SFGH; Wilkins, VA Kaplan, C. P. Bartlett

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, audiometry, vestibular testing, and consultations. Senior residents have certain administrative, teaching, and clinical responsibilities. OTOLARYN

490. Clinical Otolaryngology-SF GH (1.5 per week) Su, F, W, Sp. Wilkins

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

Pathology

101. General & Systemic Pathology. (4) F. Prerequisites: Substantive courses in anatomy, biochemistry, physiology, histology, 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.

Bottles

Mechanics 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.

Bottles

Recent advances and classical concepts of diseases as they affect the following organ systems are presented: pancreas, liver, central nervous system, kidney, endocrine system, skin. 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.

Bottles

Recent advances and clinical concepts of diseases as they affect the following organ systems are presented: reproductive systems, skeletal system, hematoopoietic 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 2 hours. Lab 6 hours.

Stenon

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, neoplasia, disorders of cell growth, and neoplasia. PATHOLOGY

Parasitology

135. Medical Parasitology. (5) W. Lecture 2 hours. Lab demonstration 2 hours. Heyman and Staff

An introduction to the protozoa, helminths, and arthropods that parasitize man. Parasite ecology and disease epidemiology, clinical and parasitologic aspects of parasitic diseases and their treatment are considered in lecture and laboratory. Emphasis in the laboratory is on demonstration. EPID INTL HLT4
127. General Pathology. (2) F. Prerequisite: Courses in biochemistry, physiology, histology, microbiology, and an introduction to immunology. Lecture 4 hours for five weeks.

Stern
Mechanisms 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, 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.

Stern
This course is identical to the lecture portion of Pathology 126. PATHOLOGY

135.01. General Pathology. (3) F. Prerequisite: Enrolled in academic program in Physical Therapy and completion of prerequisite coursework in human physiology and microbiology. Open only to students enrolled in the curriculum or by consent of program director. Lecture 3 hours.

Stern
Mechanisms and language of diseases are discussed, with emphasis on the dynamic nature of fundamental disease processes: cell injury, immunopathology, inflammation, response to infectious agents, repair, and regeneration, hemodynamic alterations, genetic disorders, disturbances of cell growth and neoplasia. PATHOLOGY

150.01. Autopsy Dissection Principles. (1.5 per week) S., W., Sp. Prerequisite: Pathology 101. Consent of instructor. Enrollment limited.

Warnock
Perfusion of one or two autopsy embalms. Exposure will be on review of normal anatomy and histology and systematic observations and descriptions of pathology. May be repeated for credit. Consent of the course is to provide a better understanding of clinical pathological correlations. PATHOLOGY

150.02. Off-Campus Pathology Clerkship. (1.5 per week) S., W., Sp. Prerequisite: Pathology 101 and 102.

Hallett
Clinical clerks in off-campus hospitals approved by the chairpersons of the department and the dean. PATHOLOGY

150.03. Pathology Clerkship—UGEM. (1.5 per week) S., W., Sp. Prerequisite: Pathology 102 and consent of instructor. Bottles

Students prepare surgical specimens, perform autopsies under supervision, and participate in teaching conferences. PATHOLOGY

150.04. Pathology Clerkship—UC & VA. (1.5 per week) S., W., Sp. Prerequisite: Medicine 110 and Surgery 110. Consent of instructor.

Ferrill
Montgomery
Students work closely with the faculty and house staff in the performance of autopsies and in the diagnostic 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. (1.5 per week) S., W., Sp. Prerequisite: Consent of instructor and chairperson of the department.

Stern
A research project under the direction of a member of the faculty. PATHOLOGY

150.06. Surgical Pathology—VMC. (1.5 per week) F., W., Sp. Prerequisite: Pathology 102 and consent of instructor.

H. M. Price, Bezemakovic
Clerkship is designed to acquaint student with available techniques of tissue analysis, from light microscopy to immunohistochemical levels, and their application in diagnosis and surgical care. Experience includes postmortem examination, review of surgical biopsy and frozen sections, electron microscopy. PATHOLOGY

150.07. Pathology Research/Service (1.5) S., W., Sp. Prerequisite: Pathology 101, 102, 103 and consent of dean of the department. Third-year standing. One-year program starting in the summer quarter.

Ferrill
This course is designed to acquaint students with practical techniques in autopsy dissection, surgical pathology, research, and intake analysis, and their application in diagnosis and surgical care; review anatomy and histology; observe and describe pathological material; and pursue a research project. PATHOLOGY

170.01. Clinical Cytopathology. (3) F., W., Sp. Prerequisite: Anatomy 102, Pathology 102 and 101. E. King, E. Hill

Lectures on basic fundamentals of cytopathology, normal cell, malignant cell, abnormal nonsignificant cell, collection, and preparation methods. Microscopic examination of specimen and correlation of cellular and tissue pathology with clausal and clinical findings on examination of the patient. PATHOLOGY


Stern
Presentation of selected current cases seen in the hospital pathology laboratory. Discussion of pathological findings, correlation with clinical and pathologic findings and treatments. PATHOLOGY

170.05. Neuropathology. (2) W. Prerequisite: Pathology 102. Third- or fourth-year standing. Lecture and seminar 2 hours.

D. Davis, DeArmond
Emphasis is placed on morphological correlation of neurological diseases by means of study of gross and microscopic material and participation in conferences. PATHOLOGY

170.08. Studies in Pathology. (1-5) S., W., Sp. Prerequisite: Consent of instructor and chairperson of the department.

Stern
Studies in pathology at other institutions with the approval of the chairperson of the department. PATHOLOGY

180.01. General Pathology. (3) F. Prerequisite: Anatomy 118. Lecture 3 hours.

Stern
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.

Stern
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 Projects. (1-3) F., W., Sp. Prerequisite: Consent of instructor.

Stern
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) F., W., Sp. Prerequisite: Microbiology 126A-B and Pathology 126 or equivalent.

J. Greigman
Weekly lectures 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.

Parlow
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


R. Stern
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

230. Experimental Pathology Seminar. (2) F., W., Sp. Prerequisite: Permission of the graduate adviser of the department. Lecture 1 hour. Seminar 1 hour.

Parlow
Presentation of current research by graduate students. Topics in pathology and disease mechanisms. Faculty from basic and clinical sciences will discuss current research in a disease process. Advanced reading in that disease will be assigned before class. There will be formulation of test-hypothesis and discussion of an experimental design lead by a student leader at each session. PATHOLOGY


Stern
PATHOLOGY

257. Molecular Biology of Human Disease. (3) F., W., Sp. Prerequisite: Open to graduate students, housestaff, and SMU-STP students. Lecture 1 hour, seminar 2 hours.

McKenswo
The course is designed to provide students with an up-to-date summary of our knowledge of intermediary-sclerosis with particular emphasis on applications of techniques of molecular and cell biology to understanding of the pathogenesis and genetics of the disease. PATHOLOGY

298. Thesis. (0) F., W., Sp. Prerequisite: Approval of chairperson and permission of the graduate adviser.

Stern
For graduate students engaged in writing the thesis for the master’s degree. PATHOLOGY

299. Dissertation. (0) F., W., Sp. Prerequisite: Approval of chairperson and permission of the graduate adviser.

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

301. Teaching Practicum. (1) F., W., Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Lab 2 hours.

Bottles
Practicum in teaching pathology under faculty supervision. Students supervise laboratory work, conduct conferences, and assist in preparing for and conducting 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.

Stern
Recent developments in diagnosis and research in pathology and laboratory medicine are discussed by faculty and guest speakers. PATHOLOGY
Pediatric Dentistry

130B-C. Pediatric Procedures—UC (1-2) W. Sp. Prerequisite: Separation completion of Operative Dentistry 125 A-B-C. Lecture W. 1 hour. Sp. 2 hours.

Braham

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, diagnostic techniques, and legal considerations are stressed. GR. DEVIL.

172. 11A—B-C. Pediatric Medicine. (1-1.1-1) F, W, Sp. Prerequisite: Enrollment in postgraduate pediatric dentistry program or consent of instructor. Seminar 1 hour.

Rothman

Course is designed to provide knowledge of general pediatrics. It will include didactic and clinical experiences in history-taking and physical diagnosis. GR. DEVIL.

173A-B-C-D-E. Pediatric Hospital Dentistry. (0-3-3-3-3) F, W, Sp, SS1, SS2. Prerequisite: Enrollment in postgraduate pediatric dentistry program or consent of instructor. Seminar 1 hour. Clinic 6 hours. Rohman

Course is specifically designed to provide the student with a working knowledge of dental rehabilitation procedures in a hospital operating room under general anesthesia and the associated hospital protocol. GR. DEVIL.

177A-B-C-D-E. Conscious Sedation. (1.3-1.5-1.5-1.5-1.5) F, W, Sp, SS1, SS2. Prerequisite: Enrollment in postgraduate pediatric dentistry program or consent of instructor. Lecture 1.3 hour. Seminar 1 hour.

Rothman and Staff

A multiplicity of medications, routes of administration, and monitoring techniques will be employed under the direct supervision of a faculty member. The student will administer the medications and monitor the patient before, during, and after the procedure. GR. DEVIL.

178A-B-C-D-E. Research Seminar. (2-2-2-2-2) F, W, Sp, SS1, SS2. Prerequisite: Enrollment in postgraduate pediatric dentistry or orthodontic program or consent of instructor. Lab 3 hours. Seminar 1 hour.

Leggott and Staff

Course will cover how to critically review research literature and do a term paper on a selected subject. It will discuss research methodologies and the development of a protocol and completion of a research project. GR. DEVIL.

Rothman and Staff

Postdoctoral pediatric dentistry or orthodontic program or consent of instructor. 3-30 hours.

M. Morris and Staff

Course covers the clinical activities of the student and has the broad objective of providing a wide experience in all phases of contemporary pedodontic diagnosis and treatment. Studies must demonstrate clinical competencies in care for the special child. GR. DEVIL.

179A-B-C-D-E. General Anesthesia

Rotation—CICM. (4-4) SS1, SS2. Prerequisite: Enrollment in postgraduate pediatric dentistry or orthodontic program or consent of instructor. Clinic 30 hours.

Rothman and Staff

A practical rotation in the operating room of the Children's Hospital Medical Center of Northern California is provided under the supervision of Residency staff anesthesiologists. GR. 120B-C.

180C. Advanced Ped Dent Seminar. (0.5) Sp. Prerequisite: Completion of three-year pediatric dentistry lecture series. Approval of the Dean. Lecture 0.5 hour.

Barkin and Staff

Scenarios on advanced pediatric dentistry involving orthodontics, occlusion and histology, periodontology, diagnosis, practice management, future ideas, and ethics. Designed for students interested in advanced study and those planning pediatric dentistry as a specialty. Counseling is provided for postgraduate education. GR. 120A.

180A-B-C-D-E. Pediatric Hospital Den-

tistry. (0-3-3-3-3) F, W, Sp. Prerequisite: Satisfactory progress in all previous pediatric dental courses. Seminar 3.5 hours per week in Hospital O.R.

Braham

Experience is provided in history-taking, admissions procedures, hospital dental records, laboratory tests, and chart documentation. Opportunity to
work with the instructor in the hospital operating room, providing care for the handicapped and other refractory patient cases, using a general anesthetics: DR. DEVIL.

PEDIATRICS

100. Medical Genetics. [2] F. Lecture 2 hours. C. Epstein. 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

110. Pediatric Clerkship—UC SFMG-L.C. (1.5 per week) Su, F, W, Sp. Prerequisite: Core curriculum in basic science.

Dallman Practical experience in the ward, newborn nursery, and outpatient clinics with emphasis on case assignments, teaching and supervision by attending and resident staff. Required seminar covers aspects of pediatrics, infections diseases, and child psychiatry. PEDIATRICS

140.01A. Ambulatory Pediatrics—UC. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Pantiel Students gain experience in well child care and in dealing with children with acute problems. Emphasis is placed on health maintenance, preventive care, and anticipatory guidance. Conferences focus on general pediatric issues and a review of patients seen in the inpatient setting. PEDIATRICS

140.01B. Ambulatory Pediatrics—SFMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Brown, Caughey, O'Connor Students evaluate and treat children with a variety of acute and chronic conditions. Patients with a high degree of acuity are seen in morning conferences and ER case reviews. Supervision is provided by senior residents, chief resident, and fellow. PEDIATRICS

140.01D. Outpatient Pediatrics—CHMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor.

Gerdon 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 Chsyp—CHMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Gerdon 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

140.01F. Outpt Pediatric Chsyp—UC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor.

Barnum 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. Inpatient Pediatric Chsyp—K. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Shinfield 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. Ambulatory Pediatrics—NRMC. (1.5 per week) F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. One student per patient.

VanMeter The course aims to provide an intense "inpatient" experience in outpatient pediatrics at a teaching hospital with a busy primary care clinic and with active subspecialty clinics. PEDIATRICS

140.01I. Inpatient Pediatric Medicine—NRMC. (1.5 per week) F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. One student per rotation.

VanMeter Students function as pediatric "inpatient interns" on the inpatient wards. They assume primary responsibility for patient management of 2-3 hospitalized children, under supervision of the senior resident and pediatric attending staff. Course includes general and subspecialty pediatrics cases. PEDIATRICS

140.01J. Intensive Care Nursery—UC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Silverman Experience in clinical evaluation of newborns with cardiac abnormalities is emphasized. Daily ward rounds and pediatric cardiology patients, attendance and participation in cardiac surgical procedures, catheterization, weekly cardiology conferences, extensive reading assignments, and daily attendance in private office setting are included. PEDIATRICS

140.01K. Neonatology—SFGH. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Pareidige, D. P. Wong Students develop skill in assessment of newborns in the setting of a high-risk patient population. The experience involves care of patients, ranging from the healthy term newborn to the infant requiring intensive and supportive care. PEDIATRICS

140.01L. Nursery Intensive Care Unit—NRMC. (1.5 per week) F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. One student per rotation.

Vanmeter The aim of this course is to offer a "sub intern" experience in managing the common problems encountered in the care of critically ill newborns. PEDIATRICS

140.01M. Pediatric Critical Care—UC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. One student per rotation.

Seifler, Nelson, and Staff Students follow selected patients in the Pediatric Intensive Care Unit and participate in patient presentations, management conferences, and teaching rounds. Emphasis is on cardiovascular and pulmonary physiology in management of critically ill pediatric patients. Students become familiar with relevant literature concerning problems of patients being followed.

140.02. Off-Campus Clerkship—K. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Rudolph Clinical clerkship in off-campus hospitals approved by the chairperson of the department and the dean. PEDIATRICS

140.03. Outpatient Pediatrics—VMMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

McCaughley 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 resident or faculty. Daily morning conferences, chart rounds, assigned readings. PEDIATRICS

140.04. Pediatric Cardiology. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Open to UCSP students only.

Silverman Experience in clinical evaluation of children with cardiac abnormalities is emphasized. Daily ward rounds on pediatric cardiology patients, attendance and participation in cardiac surgical procedures, catheterizations, weekly cardiology conferences, extensive reading assignments, and daily attendance in private office setting are included. PEDIATRICS

140.05. Pediatric Private Practice. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Open to UCSP 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. Students may select time in small group, large group, or subspecialty practice, or a combination of these. PEDIATRICS

140.06. Adolescent Medicine. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Gareis Clinical clerkship in adolescent medicine with emphasis on outpatients; clinical experience in a wide range of health problems of the adolescent. PEDIATRICS

140.07. Developmental Pediatrics in France. (1.5 per week) Su, F, W, Sp. Prerequisite: Pediatrics 110. D. M. Snyder Students learn to identify children with developmental disabilities and devise their remediation for allow for achievement of their potential. Various settings are used in acquiring skills in developmental assessment. PEDIATRICS

140.08. Ambulatory Pediatrics. (1.5 per week) F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

J. E. Anderson 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. Contact is encouraged and opportunity exist to follow patients admitted to ward. PEDIATRICS

140.10. Pediatric Hematology—UC SFGH—CHMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Open to UCSP students only. Kasper, Lubin, Muenzer The student will participate in ward rounds, outpatients clinic, and laboratory studies of blood and bone marrow spectrum. The pursuit of special interests in the clinic or laboratory is encouraged. PEDIATRICS

140.11. Cardiology—CHMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Higashino Students participate in clinical experience including outpatient evaluation, instruction in the noninvasive diagnosis of disease, care of ward medical and surgical cardiac patients, cardiopulmonary laboratory, and cardiovascular conferences. Emphasis is on the physiological principles of diagnosis and management. PEDIATRICS

140.13. Endocrinology—UC. (1.5 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

140.15. Oncology—UC. (1.5 per week) F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor.

Ablin, K. Matthay, Zoger 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. (1.5 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 instructor. PEDIATRICS

140.17. Genetics—UC. (1.5 per week) Su, F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. C. Epstein, D. Cox 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

140.19. Advanced Inpatient Pediatrics—C. (1.5 per week) F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Giannoula 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 outpatients and outpatients clinics under the supervision of the inpatient service. PEDIATRICS

140.20. Advanced Outpatient Pediatrics—C. (1.5 per week) F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Giannoula Students participate in the comprehensive care of children. Experience with various diseases is provided in appropriate specialty clinics. A wide variety of child care problems will be seen during visits to offices of other pediatricians participating in the program. PEDIATRICS

140.21. Allergy—UC (1.5 per week) Su, F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Frick Participation in the activities of allergy-immunology clinics, including basic clinical immunology course, journal club, and seminars. PEDIATRICS

140.23. Neonatal Care—C. (1.5 per week) Su, F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Lewis 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. (1.5 per week) F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. B. Ballard Experience in normal newborn and intensive care nursery, including student's intern's and skills. Student participates in the care of transport infants, and on-call nights. PEDIATRICS

140.25. Development & Behavioral Pediatrics—MZ. (1.5 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, neurodevelopmental and behavioral pediatrics. PEDIATRICS

140.26. Comprehensive Pediatric Care—KP (1.5 per week) Su, F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Schoen Within the country's largest prepaid health care program, students will participate in office visits, urgent ambulatory care, education, and inpatient care. They will work with staff and resident physicians, nurses and health educators. PEDIATRICS

140.27. Inpatient Pediatrics—KP (1.5 per week) Su, F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Schoen 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

140.29. Inpatient Pediatrics—VMC. (1.5 per week) Su, F, W, Sp, Prerequisite: Medicine 110, Pediatrics 110. Consent of instructor. Northway Students are assigned to a clinical team of house officers, fellows, and practitioners, and participate in the care of acutely ill hospitalized children. Students refine skills in history-taking, physical examination, case work-ups and presentations, and assist in special procedures, and attend daily conferences. PEDIATRICS

140.30. Gastroenterology & Nutrition. (1.5 per week) Su, F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Herrmann-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 Clinic—VMC. (1.5 per week) Su, F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. Nilson Opportunity to develop and perfect skills in history-taking, physical examination, case work-ups, presentations, and procedures. Supervised problem-oriented learning/teaching environment for basic diagnostic and management skills. Conference, case work-ups and presentation, night call with resident, and assigned reading. PEDIATRICS

140.32. Infectious Disease—RESNGC. (1.5) Su, F, W, Sp, Prerequisite: Pediatrics 110 and Medicine 110. McCarron Experience with common and unusual infections such as meningitis, osteomyelitis, pneumonia, perianal infections, and infections in immunocompromised hosts. Emphasis on discussion of consult patients, close interaction with the microbiology laboratory, and assigned readings. Students will also review fundamentals of antimicrobial therapy. PEDIATRICS

140.33. Pediatric Immunology/Rheumatology. (1.5 per week) Su, F, W, Sp, Prerequisite: Pediatrics 110 and Medicine 110, and consent of instructor. Wern, Cowan Evaluation and care of children with primary immunodeficiency diseases and rheumatologic disorders. Emphasis on etiology of immune response as it relates to immunodeficiency, immunologic disorders involved in pathogenesis of the disorder, laboratory studies required for diagnosis, and care of children with chronic disease. PEDIATRICS

140.34. Medical Genetics. (1.5 per week) Su, F, W, Sp, Prerequisite: 4th-year standing. Corey, Winter Experience will be gained in medical genetics, including dysmorphology, biochemical genetics and prenatal diagnosis. Rotation will provide general exposure to these areas and give a basic understanding of methods used to reach specific genetic diagnoses and exact prenatal detection course for future pregnancies. PEDIATRICS

140.35. Infectious Disease—UC & SFHC. (1.5 per week) Su, F, W, Sp, Prerequisite: Pediatrics 110. Grossman, Turunen, Winkler Students will learn principles of diagnosis and management of common infectious diseases, recognition of complications in the immunocompromised host, and neurologic infections. Will learn to properly interpret microbiologic data and use the microbiology laboratory. PEDIATRICS

140.36. Advanced Elective Adolescent Medicine—UCMC. (1.5 per week) F, W, Sp, Prerequisite: Medicine 110 and Pediatrics 110. One student per rotation. Van Meter The aim of this course is to provide an intensive "sub-intern" experience in the practice of adolescent medicine. Experience will include exposure to sport-related injuries, sexually transmitted disease, birth control counseling, and emotional adjustment problems. PEDIATRICS

140.37. Clinical Clerkship in Adolescent Medicine. (1.5 per week) Su, F, W, Sp, Prerequisite: Completion of basic clinical clerkships. Open to fourth-year medical students only. Irwin, Shafter Clinical rotation on outpatient/inpatient adolescent medical service. Clinical experience will include general adolescent clinic, adolescent gynecology clinic, and inpatient consultations. Adolescent medical and psychiatric wards. PEDIATRICS 130.04. Research in Pediatrics—UC. (1.5 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 instructor. Students may elect or continue research programs under supervision of faculty member. PEDIATRICS

160.01. Clinical Correlation in Pediatrics—UC. (2) Su, F, W, Sp, Prerequisite: Consent of instructor. Rudolph Students prepare case presentations weekly from patients on the pediatrics wards. Course correlates patients' problems with week in the required curriculum. Experience on the ward in the clinical setting. PEDIATRICS

170.01. Peds Devel Resource Overview. (1.5 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 care, 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 by agreement with the curriculum department of the San Francisco Unified School Districts, scheduled at the first session of the quarter. Full-week, 5 hours plus class participation. Topic paper optional with consent of instructor for 2 units.

L. Klein, Trustee
Health professionals students are oriented to working with Primary Care. Health Curriculum Program, and participate, under guidance of qualified instructors, in implementing PCHP for K-3 grade children in local schools. PEDIATRICS

170.03. Health Professional and Nuclear War. (2) F. Seminar 2 hours.

K. Reiner, Newman
Seminar exploring nuclear weapons effects, technology and strategy, and the implications of these for health professionals. PEDIATRICS


P. Karmen
Selected topics in human biochemical genetics, emphasizing research and concepts of current interests. Course is directed toward physicians, postdoctoral fellows, medical students, and genetic counselors. A seminar format will be used, with directed reading and discussion. PEDIATRICS

180.1A-B-C-D. Adolescent Development. (2-2-2-2) F, W, Sp, Su. Prerequisite: Consent of instructor. Seminar 2 hours.

J. Irwin
A four-quarter course covering the physical, psychological, cognitive and social development of adolescence. Also includes 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. Prerequisite: Consent of instructor. Grumbach and Staff
Library research and directed reading under supervision of a member of the faculty with the approval of the chairman of the department. PEDIATRICS

199. Laboratory Projects. (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 chairman of the department. PEDIATRICS

400. Staff Conference. (1-5) Su, F, W. Interns and residents.

L. Irwin
Staff Conference. This conference includes house staff preparation and presentation of patient care 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

423. Child Development Literature Seminar. (1) F, W, Sp. Prerequisite: Graduate-level student in health sciences and consent of instructor. Seminar 1.5 hours alternate weeks.

P. Karmen and Staff
Lectures and discussion of child development theory, clinically relevant research, and related common behavioral issues. Emphasis on the applicability of behavioral pediatrics in clinical practice. Includes screening, temperament, attachment, and hospitalization. Supervised experience at day care centers and schools. Reading assignments: PEDIATRICS

424. Neurodevelopmental Assessment and Therapy. (1) W. Prerequisite: By instructor approval, pediatric residents and fellows in behavioral/developmental pediatrics. Lecture hour. Lab 1 hour.

T. Tanner and Staff
Overview of theories and principles of neurocognitive development and treatment modalities available for children with neurodevelopmental disabilities. Includes assessing normal and abnormal sensory-motor development, neurodevelopmental therapy, sensory integration, pre- and postural control, and feeding therapy. Lecture, discussion, audiovisual aids, and patient demonstration: PEDIATRICS


UC. Randolph
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


M. Grossman
Residents. Under supervision, are responsible for patient care in the wards, communicable disease section, resident clinic including history-taking, physical examination, laboratory tests, diagnosis and treatment. Emphasis is on diagnosis and management of infections, trauma, and pediatric emergencies: PEDIATRICS

462. Clinical Primary Care. (1.5 per week) Su, F, W, Sp.

R. Randolph
Interns in the Primary Care Track of Pediatrics are responsible for patient care in a multinational primary care clinic. Other rotations include those common to the regular Pediatrics Internship Program as well as related clinical services such as dermatology, orthopedics: PEDIATRICS

463. Clinical Primary Care. (1.5 per week) Su, F, W, Sp.

R. Randolph
Residents in the Primary Care Track of Pediatrics are responsible for patient care in a multinational primary care clinic. Other rotations include those common to the regular Pediatrics Residency Program as well as related clinical services such as dermatology: PEDIATRICS


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 consultations: PEDIATRICS


UC. 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

Periodontology

129. Introduction to Clinical Periodontology. (1) Sp. Prerequisite: Oral Biology 126 A-B. Lecture/clinic 2 hours.

T. Taggert, Green
This course is an introduction to clinical periodontal procedures, including examinations, diagnosis, and basic periodontal therapy. It will include lecture, laboratory, and clinical practice in treating patients with early periodontal diseases and preventive periodontics: STOMATOLOGY

130. Periodontal Therapy. (1) Su. Prerequisite: Periodontics 139. Lecture 1 hour.

T. Taggert
Introduction to the diagnosis and treatment of periodontal diseases. Emphasis will be placed on examination of the patient, diagnosis and classification of diseases of the periodontium, and treatment planning. The rationale and techniques for treatment of moderate to advanced chronic periodontitis will be discussed: STOMATOLOGY

131. Periodontal Therapy. (1) F. Prerequisite: Periodontics 139. Lecture 1 hour.

T. Taggert
Diagnosis and treatment of periodontal diseases, acute lesions, less common diseases of the periodontium, and moderate to advanced periodontitis. Emphasis on diagnosis and treatment planning, considerations for surgical referral when appropriate. Rationale and techniques for treatment of moderate to advanced chronic periodontitis: STOMATOLOGY

132. Periodontal Therapy. (2) W. Prerequisite: Periodontics 139. Lecture 2 hours.

T. Taggert
Surgical periodontics and rationale for periodontal therapy. Emphasis will be placed on the rationale for various surgical modalities of treatment for periodontal diseases. Discussion of controversial treatment programs and medicolegal aspects of periodontal therapy will be included: STOMATOLOGY

139. Clinical Periodontal Therapy. (4) Prerequisites: Periodontics 139. Clinic 4 hours.

T. Taggert
Treatment of a variety of periodontal diseases under the direct supervision of faculty. Lecture and discussion groups will review diagnosis and treatment modalities: STOMATOLOGY
Taggart
Treatment of a variety of periodontal diseases in a general practice environment under the direct supervision of faculty. STOMATOLOGY

161. Periodontal Therapy. (1) W. Prerequisite: Perio 150A-B-C. Lecture 1 hour.
Taggart
Diagnosis and treatment of periodontal diseases, including acute lesions, less common disease of the periodontium, and moderate to advanced periodontitis. Emphasis will be placed on diagnosis and treatment planning, with considerations for specialty referral when appropriate. The rationale and techniques for treatment of moderate to advanced chronic periodontal disease will be featured. STOMATOLOGY

162. Periodontal Therapy. (1) W. Prerequisite: Perio 161. Lecture 1 hour.
Taggart
Surgical periodontics and rationale for periodontal therapy. Emphasis will be placed on the rationale for various surgical modalities of treatment for periodontal disease. Discussion of controversial treatment programs and medicodental aspects of periodontal therapy will be included. STOMATOLOGY

170A-B-C. Histopathology of Periodontium. (2-2-2) F, W, Sp. Lecture 1 hour. Lab 3 hours. Stetinin (F, W), Ryder (Sp)
Dynamics of inflammation and its role in the periodontal tissue. STOMATOLOGY

177. Periodontal Surgery Seminar. (2, 2) F, W, Sp. Prerequisite: B.D.S. degree and consent of instructor. Lecture 2 hours. Raw
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 periodontology in the private practice environment. STOMATOLOGY

180.01. Advanced Perio Lit. (1) F. Prerequisite: Perio 130 and consent of instructor. Seminar 1 hour. Abo
Study in depth, with literature review and seminar discussions of areas of periodontology having major clinical significance. STOMATOLOGY

180.02. Advanced Perio Lit. (1) W. Prerequisite: Perio 131 and consent of instructor. Seminar 1 hour. Abo
Lectures on examination and treatment planning. STOMATOLOGY

401.01. Structure and Physiology of the Periodontium. (2) F. Prerequisite: Enrollment in postgraduate specialty program. Lecture 2 hours. Ryder
Advanced study in the oral tissues, with emphasis on their histophysiologic aspects. STOMATOLOGY

401.02. Structure and Physiology of the Periodontium. (2) W. Prerequisite: Enrollment in postgraduate specialty program. Lecture 2 hours. Ryder
Advanced study in the oral tissues, with emphasis on their histophysiologic aspects. STOMATOLOGY

401.03. Structure and Physiology of the Peridontium. (2) Sp. Prerequisite: Enrollment in postgraduate specialty program. Lecture 2 hours. Ryder
Advanced study in the oral tissues, with emphasis on their histophysiologic aspects. STOMATOLOGY

404. Applied Anatomy. (1) F. Prerequisite: Enrollment in postgraduate specialty program. Lecture 2 hours. Ryder
Course covers anatomy as it relates to anesthesia and periodontal surgery. STOMATOLOGY

406.01. Hospital Anesthesiology. (6) S. Prerequisite: Consent of instructor. Seminar 1 hour. Clinic 16 hours. Shibata
Practical course in operating room anesthesia. Instruction in hospital administration, physical and preanaesthetic evaluation of the patient, monitoring of vital signs, administration of intravenous psychotherapeutic, general anesthesia, and handling of resultant medical emergencies. Clinical instruction is supplemented by seminars. STOMATOLOGY

406.02. Hospital Periodontics. (4) F. Prerequisite: Perio 419.01. Lecture 4 hours. Shibata
Clinical periodontics integrated into the regular medical and rehabilitative activities of MZ. Course provides patient with quality dental care, appreciation for preventive dentistry, and concept of total health care. Students are exposed to various medical conditions. STOMATOLOGY

406.03. Hospital Periodontics. (4) W. Prerequisite: Perio 419.02. Lecture 4 hours. Shibata
Clinical periodontics integrated into the regular medical and rehabilitative activities of MZ. Course provides patient with quality dental care, appreciation for preventive dentistry, and concept of total health care. Students are exposed to various medical conditions. STOMATOLOGY

406.04. Hospital Periodontics. (4) W. Prerequisite: Perio 419.03. Lecture 4 hours. Shibata
Clinical periodontics integrated into the regular medical and rehabilitative activities of MZ. Course provides patient with quality dental care, appreciation for preventive dentistry, and concept of total health care. Students are exposed to various medical conditions. STOMATOLOGY

413.01. Treatment Planning & Surgery. (1) F. Seminar 1 hour. 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

413.02. Treatment Planning & Surgery. (1) W. Seminar 1 hour. 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

413.03. Treatment Planning & Surgery. (1) Sp Seminar 1 hour. 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

413.04. Treatment Planning & Surgery. (1) SS1 Seminar 1 hour. 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

416.01. Original Investigation. (1-3) F. Prerequisite: Enrollment in postgraduate specialty program or consent of instructor. Lab 3-15 hours. Armitage
Original research under the supervision of a mentor. STOMATOLOGY

416.02. Original Investigation. (1-3) W. Prerequisite: Enrollment in postgraduate specialty program or consent of instructor. Lab 3-15 hours. Armitage
Original research under the supervision of a mentor. STOMATOLOGY

416.03. Original Investigation. (1-3) Sp. Prerequisite: Enrollment in postgraduate specialty program or consent of instructor. Lab 3-15 hours. Armitage
Original research under the supervision of a mentor. STOMATOLOGY
Periodontology/Pharmaceutical Chemistry

419.01. Clinical Periodontics. (5) F. Prerequisite: Enrollment in postgraduate specialty program. Clinic 15 hours.
Shibata
Clinical procedures in periodontology therapy.
STOMATOLOGY

419.02. Clinical Periodontics. (5) W. Prerequisite: Enrollment in postgraduate specialty program. Clinic 15 hours.
Shibata
Clinical procedures in periodontology therapy.
STOMATOLOGY

419.03. Clinical Periodontics. (5) Sp. Prerequisite: Enrollment in postgraduate specialty program. Clinic 15 hours.
Shibata
Clinical procedures in periodontology therapy.
STOMATOLOGY

419.04. Clinical Periodontics. (5) SS1. Prerequisite: Enrollment in postgraduate specialty program. Clinic 15 hours.
Shibata
Clinical procedures in periodontology therapy.
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

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

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

Shibata

Pharmaceutical Chemistry

126. Principles of Pharm. Chem. (3) F. Prerequisite: Chemistry 112. Lecture 3 hours.
Ortie de Montalbano
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. Principles of Pharmaceutical Chemistry. (2) W. Prerequisite: Pharmaceutical Chemistry 120 and concurrent enrollment in Pharmacology 121. Lecture 2 hours. Kahl
A systematic survey of the chemical features of synthetic drugs, including correlations between chemical structure and biological activity. Emphasis on steroids, prostaglandins, peptide hormones, and drugs for metabolic disorders. PHARM CHEM

122. Autonomic & Cardiovascular Drugs. (3) Sp. Prerequisite: Pharmaceutical Chemistry 120. Lecture 3 hours. B. Gibson
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

131. Drugs Acting on CNS. (3) F. Prerequisite: Pharmaceutical Chemistry 120. Lecture 3 hours. Cashman

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. Oppenheimer
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. Radiologicals in Biol/Med/Pharm. (2) F. Prerequisite: Consent of instructor. Lecture 2 hours. Peng
Discussion on radiologicals in frequent use in biology and medicine including radiologicals used as pharmaceuticals, with emphasis on dosage form design, quality control, clinical application, and other related aspects. PHARM CHEM

157. Biostatistical Theory & Technique. (3) W. Lecture 2 hours. Lab 3 hours. E. Lin
Analytical theory and techniques for determining drugs and metabolites in biological fluids. PHARM CHEM

162. Radioisotope Imaging. (3) Sp. Prerequisite: Pharmaceutical Chemistry 152 or consent of instructor. Lecture 1 hour. D. Peice
This course will treat the theory and methodology in the application of radiologicals to organ imaging in nuclear medicine. PHARM CHEM

170. Group Studies. (1-4) F, W. Prerequisite: Consent of instructor and adviser. Agbissi
Group studies of selected topics in pharmaceutical chemistry. PHARM CHEM

Staff
Lectures and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. PHARM CHEM

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

201A. Basic Principles of Medicinal Chemistry. (3) F. Lecture 3 hours. Wang
Introduction to basic principles of medicinal chemistry, with focus on physicochemical aspects of drug-target interactions, structure and biology of drug receptors, drug metabolism-biavasculer, and pharmacoic and targeting. PHARM CHEM

201B. Medicinal Chemistry & Pharmacology of Major Drug Classes. (2) W. Lecture 2 hours. Sadee
A review of major drug classes with application of the basic principles of medicinal chemistry and pharmacology. PHARM CHEM

202A. Topics in Protein Structure. (2) W. Prerequisite: Consent of instructor. Offered in alternate years (alternates with 202B). Not offered 1989-90. Lecture 2 hours. F. Kustu, Cohen
Principles and recent advances in protein structure, including experimental and theoretical approaches. PHARM CHEM

202B. Topics in Nucleic Acid Structure. (2) W. Prerequisite: Consent of instructor. Offered in alternate years (alternates with 202A). Offered 1989-90. Lecture 3 hours. S. Shetlar
Principles and recent advances in nucleic acid structure, including experimental and theoretical approaches. PHARM CHEM

203. Drug Metabolism. (3) Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Literature project. Sadee
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

204. Introduction to Computer Programming. (3) F. Prerequisite: Consent of instructor. Lecture 3 hours. Langridge, Ferrin
An introduction to computer programming using the C language and the UNIX operating system. During the course, students learn to write, test, and debug programs of increasing complexity. Emphasis is on the basic principles in writing well-structured and modular code. PHARM CHEM

205. Molecular Biochemistry. (3) Sp. Lecture 3 hours. Crouch
The emphasis of the course will be on modern principles covering structural and functional aspects of nucleic acid and proteins, molecular biotechnological methodologies that focus on topics of biotechnology, mass spectral, ligand binding, protein-protein interactions, and automated bioanalytical methods for protein and nucleic acid sequence determination. PHARM CHEM

212A-B. Pharm Sci Computer Prog. (1, 25) F, W. Prerequisite: PC 212A or equivalent in pre-
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 Topcs of current research interest in physical and biophysical chemistry. PHARM CHEM

223A-B. Graduate Research Opportunities. (1-1) § F, W. Prerequisite: Graduate standing in the Department of Pharmaceutical Chemistry. Lecture 1 hour. Wong A series of weekly presentations of the research interests of the basic science faculty. The purpose is to acquaint new graduate students with the research in the Departments of Pharmaceutical and Pharmacological Chemistry. PHARM CHEM

230A. Spectroscopy. (4) § F, W. Prerequisite: Chemistry 162 or equivalent. Lecture 3 hours. Kohman The theory and application of nuclear magnetic resonance and electron spin resonance. PHARM CHEM

230B. Spectroscopy. (4) § F or W or Sp. Lecture 3 hours. Offered in alternate years. Offered 1989-90. T. James Theory and application of nuclear magnetic resonance and electron spin resonance. PHARM CHEM

230C. Spectroscopy. (4) § W. Lecture 3 hours. Lab 2 hours. Bassen Laboratory work in nuclear magnetic resonance. PHARM CHEM

231. Nuclear Magnetic Resonance. (3-4) § W. Sp. Prerequisite: undergraduate physics or physical chemistry. Chemistry 262 is recommended. Lecture 3-4 hours. T. James Theory and application of nuclear magnetic resonance. Following a basic core of lectures, lecture modules may be selected covering high-resolution two-dimensional NMR, magnetic resonance imaging, and in vivo magnetic resonance spectroscopy. PHARM CHEM

233. Transmission & Reaction Processes. (3) § Sp. Prerequisite: Chemistry 260. Lecture 3 hours. Guy, Siegel Basic principles applicable to transport and reaction processes in model membrane and biological systems. PHARM CHEM

237. Membrane Transport and Biophysics. (2-3) § F, W. Prerequisite: Biomembranes 236, Chemistry 260. Lecture 2-3 hours. Seokoa, Guy Biophysical considerations of membrane structure, passive and active transport mechanisms and implications for targeted and controlled drug delivery. PHARM CHEM

238. Chemistry and Physics of Polymeric Systems. (2-3) § W. Prerequisite: Pharm Chem 238, Chemistry 260. Lecture 2-3 hours. Siegel Chemistry and physics of polymers relevant to the design and function of programmable drug delivery systems. PHARM CHEM

240. Radiopharmacological Synthesis. (1-2) § F, W, Sp. Prerequisite: Consent of instructor. Lab 3-6 hours. Pong Theory and techniques related to the synthesis of isotopically labeled organic compounds. Course may be repeated for credit. PHARM CHEM

242. Radiotracer Methodology. (3) § W. Prerequisite: Pharm. Chemistry 152 or 160, or consent of instructor. Lecture 1 hour. Pong Discussion 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

250. Research. (1-4) § F, W, Sp. Staff PHARM CHEM

260. Computer Graphics. (3) § Sp. Prerequisite: Experience in programming and consent of instructor. Lecture 2 hours. Lab 3 hours. Offered in alternate years. Not offered 1989-90. 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 uncalculated 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 formulation and design selection. Core classes and small group sessions are organized around student interests. PHARM CHEM

298. Thesis. (0) § F, W, Sp. Prerequisite: Advanced standing to candidacy and permission of the graduate advisor. Staff For graduate students engaged in writing the thesis for the master's degree. PHARM CHEM

299. Dissertation. (0) § F, W, Sp. Prerequisite: Advanced standing to candidacy and permission of the graduate advisor. Staff For graduate students engaged in writing the dissertation for the Ph.D. degree. PHARM CHEM

Pharmacology

100A-B. Medical Pharmacology. (4-4) § W. Sp. Prerequisite: Biochemistry 100A-100B. Lecture 120 and 125 or equivalent. Lecture 3 hours. Conference 2 hours. Karoum Systematic presentation of pharmacologic agents based on drug group classification. Major emphasis is on mechanisms of action of clinically important agents. 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 systemic and local agencies. PHARMACOL

125. Pharmacology & Toxicology. (4) § Pre. Prerequisite: Biochemistry 120A-120B and Physiology 120 and 125. Lecture 3 hours. Conference 2 hours. Burkhalter Systematic survey of action and uses of drugs acting on autonomic nervous and cardiovascular systems and the kidney. PHARMACOL

126B-C. Dental Pharmacology. (2-4) § W. Sp. Prerequisite: Physiology 110. Lecture 2 hours W; 3 hours Sp. Lab 2 hours Sp. Trower 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) § Prerequisite: Pharmacology 125 and 126. Lecture 2 hours. Burkhalter The occurrence, mode of action, recognition, and treatment of poisoning by environmental and therapeutic agents. PHARMACOL

134. Pharmacology. (2) § Prerequisite: Concurrent enrollment in Pharmaceutical Chemistry 134. Lecture 2 hours. Burkhalter
Pharmacology

Systematic survey of action and use of anti-infective and antineoplastic drugs. PHARMACOLY 136. Pharmacology & Toxicology. (4) F. Prerequisite: Pharmacology 125. Lecture 3 hours. Conference 2 hours.

Backulet Systematic survey of action and use of drugs acting on the central nervous system. PHARMACOLY 150.01. Pharmacology Research. (1, 5 per week) Sa, F, W, Sp. Prerequisite: Consent of instructor. Lecture and lab to be arranged.

Staff Students perform individual research in a field of their choice under the guidance and supervision of a member of the faculty. PHARMACOLY 170. Group Studies. (1–4) F, W, Sp. Prerequisite: Consent of instructor. Staff Group studies of selected topics in pharmacology. PHARMACOLY 193. Survey of Departmental Faculty Research. (1–3) F. Enrollment restricted to Pharmacology graduate students. Seminar 1–3 hours. Trewar and Staff An overview of Pharmacology faculty research interests presented in a seminar format to introduce first year graduate students to the various areas of ongoing research in the Department of Pharmacology. PHARMACOLY 198. Supervised Study. (1–5) F, W, Sp. Staff Research-directed and directed study under supervision of a member of the faculty with the approval of the chairperson of the department. PHARMACOLY 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. PHARMACOLY 206A. Mechanisms of Drug Action. (3) F. Prerequisite: Consent of instructor. Students must register for both Pharmacology 206A and 206B to receive full credit after completion of both quarters. Seminar 3 hours. Trewar and Staff Lecture/seminar dealing with fundamental aspects of interactions between chemical compounds and components of biological systems. Mechanisms of drug action at molecular, biochemical, and membrane levels are considered. PHARMACOLY 206B. Mechanisms of Drug Action. (3) Sp. Prerequisite: Pharmacology 206A. Seminar 3 hours. Lanzman Second quarter of 2-quarter lecture/seminar dealing with fundamental aspects of interactions between chemical compounds and components of biological systems. Mechanisms of drug action at molecular, biochemical, and membrane levels are considered. PHARMACOLY 208. Oxidative Drug Metabolism. (2) F. Prerequisite: Consent of instructor. Lecture 2 hours. Correa, Ortez de Montellano The biochemical, regulatory, and chemical aspects of mixed function oxygenases with particular emphasis on cytochrome P-450. PHARMACOLY 210. Seminar. (2) F, W, Sp. Correa Presentations by guests and staff on current research in pharmacology. PHARMACOLY 250. Research. (1–4) F, W, Sp. Staff PHARMACOLY 250. Thesis. (2) F, W, Sp. Prerequisite: Advanced to candidacy and permission of the graduate advisor. Staff For graduate students engaged in writing the thesis for the master's degree. PHARMACOLY 299. Dissertation. (2) F, W, Sp. Prerequisite: Advanced to candidacy and permission of the graduate advisor. Staff For graduate students engaged in writing the dissertation for the Ph.D. degree. PHARMACOLY 300A-B-C. Teaching Practicum. (1–1, 1, 3) F, W, Sp. Prerequisite: Advanced to candidacy for the Ph.D. degree. Staff Opportunity is provided to participate in a formalized way in the teaching of pharmacology under the direction of the faculty. PHARMACOLY 110. Non-Prescription Products. (1) W. Conference 2 hours. Yes 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. PHARMACOLY 112. Non-Prescription Products. (1) Sp. Prerequisite: Pharmacy 111. Conference 2 hours. Yes Continuation of Pharmacy 111. PHARMACOLY 114. Biopharmaceutics & Phys Pharmacy. (3) F. Prerequisite: Concurrent enrollment in Chemistry 115. Lecture 3 hours. Hoener, Guy, Siegel 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. PHARMACOLY 115. Biopharmaceutics & Phys Pharmacy. (4) W. Prerequisite: Pharmacy 114 and concurrent enrollment in Chemistry 116. Lecture 3 hours. Lab 3 hours. Hunt, Dill, R. Day, Bentz, Siegel, Blake Continuation of Pharmacy 114 with the addition of laboratory periods on general and basic drug delivery systems. PHARMACOLY 116. Biopharmaceutics & Phys Pharmacy. (4) Sp. Prerequisite: Pharmacy 115. Lecture 3 hours. Lab 3 hours. Szoka, Siegel, Day, Guy, Blake Continuation of Pharmacy 115. PHARMACOLY 123. Non-Prescription Drugs. (1) F. Prerequisite: Pharmacy 112. Conference 2 hours. Ye Continuation of Pharmacy 112. PHARMACOLY 127. Biopharmaceutics & Dispensing. (4) F. Prerequisite: Pharmacy 116 and Pharmacy Administration 112. Lecture 2 hours. Lab 6 hours. R. Day, Benes, Siegel Continuation of Pharmacy 116 with the addition of training in the professional and dispensing aspects of pharmacy. PHARMACOLY 128. Pharmacokinetics. (3, 5) W. Prerequisite: Pharmacy 116. Lecture 3 hours. Conference 1–2 hours. Hoener, Giacomini Course covers the pharmacokinetic basis of variability in the therapeutic, pharmacologic, and toxicologic effects of drugs. PHARMACOLY 129. Pharmacokinetics. (3, 5) Sp. Prerequisite: Pharmacy 128. Lecture 3 hours. Conference 1–2 hours. Giacomini, 631 Continuation of Pharmacy 128. PHARMACOLY 151. Community Health Education. (2) Sp. Lecture and discussion 2 hours. Participation in at least four community health education programs. R. Gibson, Lern Course is designed to train students for participation in community health programs dealing with drug abuse education and other drug-health related areas, such as poison prevention, venereal disease, and birth control. Course may be repeated for credit. PHARMACOLY 152. Special Topics in Pharmacokinetics. (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. PHARMACOLY 153. Seminar Preparation Techniques. (1) F. Prerequisite: Consent of instructor. Seminar 1 hour. Conference 1 hour. Hunt, Goyan Preparing, presentation and evaluation of research seminars. PHARMACOLY 154. Permeability Absorption. (2) W. Prerequisite: First-year standing. Lecture 2 hours. Watson, Guy Course presents material dealing with the penetration of drugs and other chemicals across the skin. PHARMACOLY 155. External Drug Products. (3–4) W. Sp. Prerequisite: Pharmacy 127. Lecture 2–3 hours. Lab 3–6 hours. Blake, Hoener Discussion and laboratory exercises on the formulation of products for external use, including drug and cosmetic products. The course deals with the properties and ingredients of such products. PHARMACOLY 156. Parenteral Products. (3) F, W, Sp. Prerequisite: Pharmacy 127. Lecture 2 hours. Lab 3 hours. Blake Introduction to the formulation and technology of parenteral preparations. Laboratory includes participation in hospital activities in which parenterals are made and administered. PHARMACOLY 164. Veterinary Products. (3) Sp. Prerequisite: Microbiology 120, 127, Pathology 135, Pharmacology 136, and Pharmacy 116. Lecture 3 hours. Enos Course is designed to familiarize the student with common ailments of domestic animals and livestock, product use for the prevention and treatment of such diseases, the interrelationship of pharmaeutics, veterinary, and animal owners, and legal limitations on veterinary product dispensing. PHARMACOLY 165. Pharmaceutical Technology. (3) F. Prerequisite: Pharmacy 116. Lecture 1 hour. Lab 6 hours. Blake, Gibson 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. PHARMACOLY 166. Pharmaceutical Technology. (3) W. Prerequisite: Pharmacy 165. Lecture 1 hour. Lab 6 hours. Blake, Gibson 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. PHARMACOLY 167. Pharmaceutical Technology. (3) S. Prerequisite: Pharmacy 166. Lecture 1 hour. Lab 6 hours. Blake, Gibson An advanced study of the relationship of the art and science of pharmaceutical technology to solid dosage forms. PHARMACOLY
160. Clinical Pharmacokinetics-UC. (2) F, W. Prerequisite: Equiva- lent fourth-year standing or consent of instructor. Reports to conferences 6 hours. Enrollment limited.

Tozer, Winter, Upton, Salazar: Discussion and review of the literature in the clinical application of pharmacokinetic principles in drug therapy. PHARMACY

168.02. Clinical Pharmacokinetics-UC. (2) F, W. Sp. Prerequisite: Fourth-year standing or consent of instructor. Reports to seminar 3 hours. Enrollment limited. Shilomoros

Discussion and review of the literature on the clinical application of pharmacokinetic principles in drug therapy. PHARMACY


PHARMACY

170.05. Clinical Drug Investigations. (2) W. Sp. Prerequisite: Introductory statistics recommended. Lecture 2 hours. Williams, Wester, Schwartz

A ten-week course which will discuss methods for generating data about drug risk and efficacy in clinical settings, with emphasis on the rational use of antimicrobial agents. Clinical trials and regulatory aspects of new drug testing will be discussed. PHARMACY

170.06. Molec & Cell Biology in Drug Devol. (2) Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Soks

Introduction to the role of cellular and molecular biology in developing new drugs, hormones, or therapeutic agents. PHARMACY

170.07. Communication Skills. (1.5) Sp. Prerequisite: First-year standing. Lab 2 hours. Seminar 1 hour. Enrollment limited. Leon

Aspects of communication which focus on skills pertinent to contemporary pharmacy settings. Discussion of principles of communication and practice of specific techniques in simulated practice situations. PHARMACY

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 chairman of the department. PHARMACY

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 chairman of the department. PHARMACY

111. Pharmacy Laws. (2) W. Lecture 2 hours

J. R. Nielsen

Introduction to court systems and administration boards and their relationship to the health professions. Discussion of basic principles of criminal law, negligence, and business law with particular emphasis on the legal relationship and responsibility of the practitioner to the patient. PHARMACY

112. Pharmacy Laws. (2) Sp. Lecture 2 hours

J. R. Nielsen

A detailed examination of federal and state drug, cosmetic, and narcotic laws; their preauthorization, enforcement, and effect upon the practice of pharmacy. Course involves some administrative work. PHARMACY

150. Marketing. (4) W. Lecture 4 hours

Lucacessi

An analysis of the marketing functions that facilitate the flow of pharmaceutical products from production to consumption, and of the decision-making processes of pharmaceutical institutions. Emphasis is given to the environmental factors affecting marketing decisions. PHARMACY

154. Community Pharmacy Management. (4) Sp. Prerequisite: Basic economics or consent of instructor. Lecture 4 hours

Lucacessi

Principles of management, specially directed toward developing facilities with current problems peculiar to community pharmacy operation. Emphasis is given to elements in locating, organizing, operating, and adapting a pharmacy. PHARMACY

155. Accounting. (3) F. Lecture 1 hour. Discussion 2 hours

Lucacessi

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. Hist Prof Family & Business Law. (2) Sp. Lecture 2 hours

J. R. Nielsen

A survey of laws relating to landlord-tenant dispute, property division, support payments, prenuptial and decedent's estates, with particular emphasis on how pharmacists may expect their practice to be affected by these laws, and some practical preventative legal techniques. PHARMACY

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

Staff

Group studies of selected topics in pharmacy administration.

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 chairman of the department. PHARMACY

104B. Physical Therapy Procedures. (5) F. Prerequisite: Completion of course work in summer term in the Physical Therapy Curriculum. Open only to students enrolled in the Curriculum, or by consent of program director. Lecture 2 hours. Lab 8 hours.

Richards, Byl

Second course in a series of four courses in physical therapy procedures. Assessment, goal setting, treatment, evaluation and problem solving of musculoskeletal pathologies. A library review of the literature is also required in preparation for the development of a research proposal. 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 by consent of program director. Lecture 2 hours. Lab 8 hours.

Radiska, Chape, Byl

Continuation of Physical Therapy Procedures series. Basic neuroanatomical and somatomotor principles of normal and pathological motor function presented. Various physical therapeutic concepts of assessment, goal setting, treatment planning, treatment, evaluation, and problem solving presented for the patient with neurological dysfunction. Patient demonstrations included; field work coordinated through PT 104A. PHYS THER

104D. Physical Therapy Procedures. (5) Sp. Prerequisite: Completion of course work in summer term, fall and winter quarters. Open only to students enrolled in the Curriculum, or by consent of program director. Lecture 2 hours. Lab 4 hours.

Sadowsky, Richards


105. Physical Med & Rehabilitation. (5) W. Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum, or by consent of program director. Lecture 3 hours.

Berrol

Course presents the philosophy of rehabilitation and medical management of chronic disease and the multiple handicapped person. Particular emphasis is on brain damage, spinal cord injuries, over-broader accidents. PHYS THER

106D. Specialty Medical Management of Disease: Internal Medicine. (3) W. Prerequisite: Completion of course work in fall quarter. Open only to students enrolled in the Curriculum, or by consent of program director. Lecture 3 hours.

Roost

Course presents the diagnostic and medical concerns that guide the intern in decision making. Outlining the contraindications, precautions, and prognosis helps guide the physical therapy in designing management programs for patients with primary or secondary internal medical problems. The health care team and learning relationships are also presented. PHYS THER

106I. Specialty Medical Management of Disease: Psychiatry. (2) Sp. Prerequisite: Completion of course work in fall quarter. Open only to students enrolled in the Curriculum, or by consent of program director. Lecture 2 hours.

Biy

Course presents the psychosocial diagnostic and management concerns of patients with medical problems, those with common emotional and social problems, and those challenged with adjustment to physical disability. The physical therapist learns techniques of history taking and counseling appropriate to physical therapeutic management strategies. PHYS THER

108. Basic Medical Procedures. (2) Sp. Prerequisite: Completion of course work in summer, fall and winter quarters. Lecture 1 hour. Lab 2 hours.

Stimpson

Presentation of basic procedures for total and emergency care of the patient. Emphasis on interpretation of vital signs, emergency resuscitation, sterile techniques, wheelchair prescription, born evaluation and treatment, as well as communication in various situations. PHYS THER

109A. PT Professionalism and Ethics. (3) Sp. Prerequisite: completion of coursework in summer, fall, and winter. Open only to students enrolled in the Curriculum, or by consent of program director. Seminar 3 hours.

Radiska

This seminar develops the concepts of teamwork, interpersonal communication, documentation, quality assurance, ethics, standards of practice, medical legal issues, scope of professional practice and licensing, and principles of preparing educational programs for patients. PHYS THER
Physical Therapy

198. Independent Study. (1-5) S. F. W. Sp. Prerequisite: Enrollment in the Curriculum and approval by instructor. Open only to students enrolled in the Curriculum in Physical Therapy.

Dy, Radhika

- This course is designed to permit physical therapy students to develop independent clinical research under the supervision of faculty. This course can be repeated as approved by faculty. It cannot be used as a substitute for core curriculum coursework. PHYS THER.

200. Neuromusculoskeletal Anatomy. (4-5) SS. § Prerequisite: Upper division human anatomy and human physiology, or by consent of instructor. Open only to students enrolled in the Curriculum. Lecture 3 hours. Lab 4 hours.

Mckenzie

- Dissection and functional anatomy of the neuromusculoskeletal system from a developmental and biomechanical perspective with vascular and lymphatic systems isolated in a 3-dimensional perspective. Principles and relationships reinforced through lecture, dissection laboratory, studies of preparatory, and weekly integrative clinical seminars. PHYS THER.

201. Kinesiology & PT Assessment. (3) SS. § Prerequisite: Completion of prerequisite coursework in kinesiology, exercise physiology, anatomy, and physiology. Open only to students enrolled in the Curriculum, or by consent of program director. Lecture 2 hours. Lab 4 hours.

Dy, Richards

- Applications of surface anatomy, structural and biomechanical principles to normal trunk and extremity motion within the physical therapy assessment. Principles of measurement, instrumentation, administration, and interpretation of standardized and clinical evaluation techniques reviewed in a lecture and lab setting. PHYS THER.

202. Therapeutic Exer. and Modalities. (2) SS. § Prerequisite: Completion of prerequisite coursework in exercise physiology and human physiology. Open only to students enrolled in the Curriculum or by consent of program director. Lecture 1 hour. Lab 3 hours.

By, Reiser & Lessard

- In lecture and laboratory setting, physiological, theoretical, and administrative principles are applied to the application of therapeutic modalities and the design and implementation of therapeutic exercise programs to prevent disability, maintain positive health, and restore function. PHYS THER.

251. Research Design and Methodology. (3) SS. § Prerequisite: Open only to students enrolled in the Curriculum or by consent of program director. Lecture 2 hour.

By, Logic of inquiry, principles of research design, and methodologies appropriate to scholarly activity in physical therapy. Includes review and critical appraisal of research designs used in physical therapy and practical problem solving. Foundation course for developing a research project. PHYS THER.

252. Research Seminar: Critical of PT Lit. (1) W. § Prerequisite: Completion of a course in statistics. Open only to students enrolled in the Curriculum, or by consent of program director. Seminar 3 hours.

By, The first seminar of a research series focusing on problems of research in physical therapy, practical statistics, writing abstracts and critiques of research, literature review, including submission of a literature review on the student's proposed research topic. PHYS THER.

253. Research Seminar: Proposal Critique. (1) W. § Prerequisite: grade B or better in PT 500. Open only to students enrolled in the Curriculum, or by consent of program director. Seminar 3 hours.

By, Converting the research question to a research hypothesis, and proposal writing including preparation of a proposal for a research project. PHYS THER.

410. Clinical Clerkship. (2) W. Prerequisite: Completion of academic coursework with overall B average. Open only to students enrolled in the Curriculum, or by consent of program director. Clinic 1 day/week.

Radhika

- Students observe and assist the physical therapy clinician with provision of assessments, evaluation, and physical therapy treatment services in one practice setting, one day a week for 11 weeks. PHYS THER.

411. Clinical Clerkship. (2) W. Prerequisite: Completion of academic coursework with overall B average. Open only to students enrolled in the Curriculum, or by consent of program director. Clinic 1 day/week.

Radhika

- Students develop their physical therapy assessment skills and integrate their didactic information with patient treatment by working closely with a clinical preceptor in the clinical setting to evaluate patients under supervision and directly observe staff provide physical therapy treatments. PHYS THER.

412. Clinical Clerkship. (9) S. Prerequisite: PT 410 and PT 411. Open only to students enrolled in the Curriculum, or by consent of program director. 40 hours/week, 5 days/week for 6 weeks.

Radhika

- Students provide assessment, evaluation, and physical therapy treatments under the direct supervision of a physical therapist. Students must demonstrate satisfactory completion of this clerkship before progressing to the next clerkship. PHYS THER.

413. Clinical Clerkship. (6) S. Prerequisite: PT 412. Open only to students enrolled in the Curriculum, or by consent of program director. 40 hours/week, 5 days/week for 6 weeks.

Ganong and Staff

- Physiolo ogical observation of the human gastrointestinal and endocrine systems will be studied. PHYSIOLOGY.

Radhika

Students provide patient care under supervision in a clinical facility affiliated with UCSF. Students must satisfactorily complete this clerkship prior to taking PT 414. PHYS THER.

414. Clinical Clerkship. (9) S. Prerequisite: PT 412 and PT 413. Open only to students enrolled in the Curriculum, or by consent of program director. 40 hours/week, 5 days/week for 6 weeks.

Radhika

Students provide patient care under the guidance and supervision of a physical therapist in a clinical facility affiliated with UCSF. The student is expected to progress to increased independence of physical therapy practice. PHYSICAL THERAPY.

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.

Lisberger

- Normal function of the cardiovascular, respiratory, and renal 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) § W. Prerequisites: Anatomy 100, Biochemistry 100A-B, Physiology 100, or consent of instructor. Lecture 5 hours. Lab 1 hour.

Lingappa

- 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. (5) § W. Prerequisite: College-level biology, physics, and chemistry, or consent of instructor. Lecture 5 hours. Conference 5 hours.

A. Miller

- Introduction to organ systems with emphasis on nervous, endocrine, circulatory, respiratory, and alimentary function in vertebrates. Implications of organ systems for the success of multicellular forms, survivor strategies. Fundamental cell processes are also discussed, emphasizing differential function. PHYSIOLOGY.

120. Mammalian Physiology. (2.5) W. Prerequisite: Physiology 125 or consent of instructor. Lecture 125 required for students in School of Pharmacy, may be taken separately by graduate students with consent of instructor only. Lecture 2 hours.

Ganong and Staff

- Physiology of the human gastrointestinal and endocrine systems will be studied. PHYSIOLOGY.
Physical Therapy/Preventive Dentistry and Community Health/Pharmacy

223. Physiology Research Seminar. (1) § F, W. Sp. Prerequisite: Consent of instructor. Co-requisite: Seminar 1 hour. Course may be repeated for credit.

224. Molec Biol of Lipid Metabolism. (2) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Offered in alternate years. Not offered 1989-90.

Taylor, Fielding

The structure and regulation of the genes and proteins that control lipid metabolism, including plasma apolipoproteins, receptors, and enzymes. Molecular and cellular biology of mammalian lipid metabolism examined with respect to regulation of various proteins involved in transport, binding, and utilization of lipids. PHYSIOLOGY


Staff

Physiology

299. Thesis. (0) § Su, 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. PHYSIOLOGY

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. PHYSIOLOGY

300. Teaching Practicum. (0) § F, W, Sp. Prerequisite: Consent of instructor and permission of instructor. Lecture and lab variable.

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. (6) § Su, W. Prerequisite: Consent of instructor. Seminar 4 hours.

Cobleight, Zeiger

A seminar designed to teach purposeful 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 1.5 hours. Enrollment limited.

Stemb

A course in teaching techniques. Students present short lectures, and video tapes 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.

Staff

A laboratory research project under the direction of a member of the community with the approval of the director of the department. PHYSIOLOGY

120.01. Mammalian Physiology. (2.5) W. Prerequisite: Physiology 120.01 required for students in Curriculum in Physical Therapy. Open only to students enrolled in the Curriculum in Physical Therapy, or by consent of instructor. Lecture 2 hours. Conference 1 hour.

Genorg

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.

Mines

Physiology of the human cardiovascular, respiratory and renal systems is stressed, with special attention to developing problem solving skills using the material. PHYSIOLOGY

125.01. Mammalian Physiology. (5) F. Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum in Physical Therapy, or by consent of instructor. Lecture 4 hours. Conference 2 hours.

Mines

Physiology of the human cardiovascular, respiratory and renal systems is stressed, with special attention to developing problem solving skills using the material. PHYSIOLOGY

126. Neurosciences for Pharmacy. (4) W. Prerequisite: Physiology 175 or consent of instructor. Lecture 3 hours. Lab 1.5 hours. Conference 1 hour.

Korenblun 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 neurological and anatomical substrates in which these occur. PHYSIOLOGY

150.01. Research in Physiology. (1.5 per week) Su, W, F. 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

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

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 chairman of the department. PHYSIOLOGY

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Psychiatry

First-Year-Coordinated Instruction—This course provides a first opportunity to interview medical patients in small group settings, guided by experienced clinicians. Useful medical information is gathered in a comfortable, professional interchange, and one's identity as a physician also begins emerging in the process.

PGY 1 Courses—The Department of Psychiatry is currently developing new courses for PGY 1 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, Macnair, Kaltreider

Introduction to the basic psychological principles underlying response to the onset of illness and treatment, with emphasis on mental mechanisms of development, death and dying, and character style. PSYCHIATRY

100B. Illness Behavior. (1) W. Seminar 2 hours.

Brooks, G. 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 are ill, and during rehabilitation and after recovery. PSYCHIATRY

110. Psychiatry Core Clerkship. (1.5 per week) Su, W, F. Sp. Prerequisite: Medicine 131A-B-C, Psychiatry 100A, 100B, and 131B-A. Open to UCSF students only.

Kaltreider

Six-week assignment to a psychiatric service at UCSF, SFVAMC, NIMH, or a VA. Students, under supervision, are responsible for patient evaluation and participation in treatment planning for inpatients, outpatients, and consultation/family. They attend seminars related to clinical work, and make
Kaltreider
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.

140.01. Advanced Psychiatry Clerkship. (1.5 per week) Su, F, W, Sp. Prerequisite: Psychiatry 110 and consent of Department of Psychiatry.
Kaltreider
Participation, with supervision of attending and resident staff of the Department of Psychiatry, in psychiatric assessment, treatment and/or consultation/ liaison with adult or child inpatients or outpatients. Special focus experiences may be arranged.

140.02. Off-Campus Clerkship. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of Department of Psychiatry.
Kaltreider
Clinical clerkship in off-campus hospitals, approved by the chairperson of the department and the dean.

140.05. Clinical Psychiatry. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of Department of Psychiatry.
Kaltreider
Participation, under close supervision in accordance with student's level of experience and special interests, in clinical psychiatric treatment of adult or child inpatients or adult outpatients.

140.06. Consultation Clerkship-VMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Psychiatry 110 and consent of Department of Psychiatry.
Ables
Supervised evaluation and treatment of patients on the Psychiatry Consultation Service, Liaison Unit, Psychosomatic Clinic, and Emergency Room. Learning opportunities include teaching rounds, consultation seminar, biopsychosocial rounds, and consultation syllabus.

150.01. Psychiatric Research. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of Department of Psychiatry.
Kaltreider, Jones
Participation according to students' level of experience in experimental work in areas such as neurophysiology, operant conditioning, psychophysiology, immunochemistry, and socialistic communication. All work is under the close supervision of member of the faculty.

150.03. Sex Therapy & Medical Practice. (1.5 per week) F, W, Sp. Prerequisite: Consent of instructor and Department of Psychiatry.
Gondel
Effect of sex roles, self-esteem, attitudes, and values of clinician on treatment of sexual problems. Case studies, role playing, group discussion, films used to develop skills in introductory sex counseling. Readings, research project, or special interest paper may also be done.

170.01. Intro to Study of Suicide. (2) F, W, Sp. Prerequisite: Consent of Department of Psychiatry. Lecture 2 hours.
Mettas
Suicide is surveyed from a multidisciplinary approach in seminars led by persons working in the field.

170.02. Alcoholism. (1) F. Lecture 1 hour.
P. Stewart
General issues in advance abuse as well as the pharmacology, medical, and neurologic aspects of alcohol abuse. Treatment issues will be considered with emphasis on Alcoholics Anonymous. Family issues arising from alcohol abuse and special concerns for the health professional.

170.12. Medical Scholars Program Workshops. (1-2) F, W, Sp. Prerequisite: Permission of the instructor. Workshop 2-4 hours.
Fullcove
Workshops in anatomy, neuroanatomy, cell biology, and physiology, offered concurrently to the first-year class, will present challenging material in the form of problem sets which students will solve in groups. Material, geared toward high-achieving students, will augment basic coursework with clinical and basic science information.

Fullcove
This conference provides an opportunity to gain insights into the role of research, examine the methodologies for conducting research, and learn to present research findings.

Kaltreider
Explores focal psychiatric issues in systemic format. Current electives include substance abuse, women's psychological health, the development of physician identity, cross-cultural issues. New topics are designed according to faculty/student interests.

Kaltreider
Explores focal psychiatric issues in systemic format. Current electives include substance abuse, women's psychological health, the development of physician identity, cross-cultural issues. New topics are designed according to faculty/student interests.

Lu
Course provides a grounding in phenomenology and descriptive diagnostic features of the major psychopathologies, including the following types of disorders: schizophrenia, affective, organic mental, severe personality, and substance abuse. PSYCHIATRY

403. Intro to Psychopharmacology. (1) Su, W. Required for first-year residents in Psychiatry. Seminar 1 hour.
Skalik
Course addresses basic issues in prescribing, including patient compliance, the placebo effect, and the dynamic significance of medications. Also includes a review of basic neuromechanical processes.

404. Intro to Child Development. (1) Su, W. Required for first-year residents in Psychiatry. Seminar 1 hour.
Hansen
An introduction to developmental framework, with emphasis on ages 0-5 years.

411. Forensic Psychiatry. (1.5) W. Required for second-year residents in Psychiatry. Seminar 1.5 hours.
Terz
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.

415. Psychol Aspects of Psychr. (1) F, W. Prerequisite: Required for second-year residents in Psychiatry. Seminar 1 hour.
Marmor
Examination of neurotic and character disorders from a psychodynamic perspective. PSYCHIATRY

Mueller
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. Psychoneurology and psychopathology of disorders and rationale for various psychosurgical interventions are studied.

415. Intro to Clinical Research. (1) W. Prerequisite: Psychiatry Resident II standing. Seminar 1 hour.
Zegars, Totschok
Course will introduce residents to clinical research as an essential body of knowledge and skills which can be integrated into present and future clinical research.
416. Psychoanalytic Theory. (1) F, W. Prerequisite: Required for second-year residents in Psychiatry. Seminar 1 hour.

Baumbacker Seminar offers instruction in the theoretical bases of psychoanalysis. PSYCHIATRY

417. Child Psychoanalysis/Psychotherapy. (1) Su. F. Prerequisite: Required for second-year residents in Psychiatry. Seminar 1 hour.

Binger, J. Phillips Seminar covers the theory and implementation of the techniques of psychotherapy with children. Emphasis is placed on play therapy. The seminar will also cover psychopharmacology as manifested in children, including descriptions and possible ideologies. PSYCHIATRY

421. Psychoanalytic Psychotherapy. (1) F, W. Prerequisite: Required for third-year residents in Psychiatry. Seminar 1 hour.

Amini, Baumbacker Course explores the application of psychoanalytic theory to psychotherapy. PSYCHIATRY

422. Social Psychiatry. (1.5) F, W. Prerequisite: Required for third-year residents in Psychiatry, or consent of instructor. Seminar 1.5 hours.

F. A. Johnson, Pearlman 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

423. Group Therapy. (1) F. Prerequisite: Required for third-year residents in Psychiatry. Seminar 1 hour.

Zetlin Course provides a didactic introduction to the practice of outpatient group psychotherapy. PSYCHIATRY

431. Neurology. (1) W. Prerequisite: Required for fourth-year residents in Psychiatry. Lecture 1 hour.

Proficiency Review of clinical neurology with emphasis on neurological disorders that may have psychiatric implications. PSYCHIATRY

450. Psychopharmacology for Psych OP. (1) F, W. Prerequisite: Consent of instructor. Seminar 1 hour.

Lamson, Stoteau A seminar where participants read and present current psychopharmacological literature. Topics focus on 1) decision making regarding clinical syndromes in which medications would be helpful; 2) objective measures of treatment response; 3) practical drug management. PSYCHIATRY


Ostwald Members of the Department of Psychiatry and distinguished guests make clinically oriented presentations reflecting diverse areas of the field. PSYCHIATRY

456. Brief Psychotherapy. (2) W. Prerequisite: Graduate clinical training stance at SFPM, or consent of instructor. Lab 3 hours. Seminar 1 hour.

E. Burns, J. Cohen Review of the literature on psychodynamically oriented brief psychotherapy and review of completed cases. PSYCHIATRY


Wallenstein, Kaltredner, 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

458. Research on Mental Processes. (1.5) Su, F, W, Sp. Prerequisite: Graduate standing in Psychology, or PSY 2-3 in Psychiactric Residency. Minimum commitment of one year, except to some medical students for a one-quarter commitment. Seminar 1.5 hours.

Horowitz, Marmor, Weiss Guided research using an apprenticeship model involving recorded interviews, from psychotherapy, research interviews, and experimental procedures using cognitive science methods. Systematic readings in the literature on mental structures and defensive processes, including issues of motivation, attention, learning, and emotion. PSYCHIATRY

459. Evaluation of Psychopharmacological. (1.5) F, W. Sp. Prerequisite: Resident in Department of Psychiatry or consent of instructor. Seminar 1.5 hours.

Marras Course provides framework for residents which will enable them to take a systematic and rational approach in evaluation of various psychopharmacological methods, including a method of assessing the conceptual consistency and validity of a given approach. PSYCHIATRY

460. Theories of Personality. (1) F, W. Prerequisite: Resident standing in Department of Psychiatry or consent of instructor. Seminar 1 hour.

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 applications to the behavioral sciences, and research potentials. Parallel reading is required. PSYCHIATRY

462. Psychol Aspects Medication Usage. (1) F, W. Prerequisite: Consent of instructor. Seminar 1 hour.

Nevin Course explores the psychological implications of prescribing medications. PSYCHIATRY

463. Clinical Case Conferences. (1.5) F, W. Sp. Prerequisite: Consent of instructor. Conference 1.5 hours.

Gootnick The clinical case of an individual patient psychotherapy is presented. The case in treatment is followed on a weekly basis. PSYCHIATRY

464. Adult Continuous Case Conference. (1.5) F, W. Sp. Prerequisite: Consent of instructor. Seminar 1.5 hours.

Course given at San Francisco Psychopharmacologic Institute Library.

Oremland Seminar reviewing for literature pertinent to psychotherapy of the severely disturbed, predominantly borderline patient. A case will be presented and discussed. PSYCHIATRY


Ostwald 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 covered. Students will be encouraged to select individual subjects for consent. PSYCHIATRY

466. Behavioral Sciences Research. (1.5) Su, F, W. Sp. Prerequisite: Consent of instructor. Lab 4.5 hours.

Calloway, Halliday, and Staff Course consists of reported 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

481. Child Care Observation. (1) Su. Prerequisite: Required for first-year child psychiatry fellows, or consent of instructor. Field work 1 hour.

Reese Participate and observe activities at UCSF Child Care/Study Center. Experiences are discussed with supervisor. Experience will be enlarged to include observations at elementary and junior high school. PSYCHIATRY

482. Growth & Development Seminar. (1) F, W. Prerequisite: Required for first-year child psychiatry fellows, or consent of instructor. Seminar 1 hour.

Metcalf Provides theoretical understanding of normal growth and development. Format is primarily presentations and group discussions. PSYCHIATRY

483. Principles of Therapeutic Method. (1) F, W. Sp. Prerequisite: Required for first-year child psychiatry fellows, or consent of instructor. Seminar 1 hour.

1. Phillips Discussion of philosophy and practice of clinical work with patients. Includes history, principles, and methods of child psychiatry as well as all stages of clinical development and modalities of treatment. PSYCHIATRY

485. Psychopathology Literature Sem. (1) F, W. Sp. Prerequisite: Required for first-year child psychiatry fellows, or consent of instructor for others. Seminar 1 hour.

Binger and Staff Extensive review of pertinent readings in child and adolescent psychiatry. PSYCHIATRY

486. Devel Disabilities Seminar. (2) Su. Prerequisite: Required for first-year child psychiatry fellows, or consent of instructor. Seminar 2 hours.

Flash Lectures focus on mental retardation, deafness, blindness, and cerebral palsy, with emphasis on the developmental, familial, and social aspects. PSYCHIATRY

487. Adolescent Continuous Case Seminar. (1.5) § F, W. Sp. Prerequisite: Required for second-year child psychiatry fellows, or consent of instructor for others. Seminar 1.5 hours.

Gelber Participation with senior staff member to discuss ongoing dynamics of psychodynamic work with adolescents. PSYCHIATRY

488. Child Psychiatry Clinical Coat. (1.5) F, W. Sp. Prerequisite: Required for first- and second-year child psychiatry fellows, or consent of instructor for others. Conference 1.5 hours.

Sikorsk The Child and Adolescent Service has developed a continuing education program of distinguished speakers in the field of child psychiatry and related disciplines. Clinical problems and mini-courses are presented. PSYCHIATRY

489. Social & Legal Issues: Their Impact on Clinical Practice. (1) W. Sp. Prerequisite: Required for first-year child psychiatry fellows, or consent of the instructor. Seminar 1 hour.

Reese Covers current social and legal issues, policy questions, mental health legislation, and major court decisions which have impact on clinical practice and services. Areas included: divorce and child custody/support, domestic violence, day care, juvenile justice, schools, and cross-cultural psychiatry. PSYCHIATRY

490. Psychological & Educational Evaluation. (0.5) SS2 Prerequisite: Required for first-year child psychiatry fellows or consent of instructor for others.

Morrison
Psychiatry/ Psychology

Seminar is focused on the most common and pre-

vally used methods of assessing intelligence, edu-
cational achievement, perceptual-motor integration, and personality in children. Actual testing materials as well as supporting research are covered. Participation is required. PSYCHIATRY

491. Res Methodology in Child Psych. (1) F, W, Sp. Prerequisite: Required for second-year child psychiatry fellows, or consent of instructor. Seminar 1 hour. Dr. Marston

Review of basic experimental design and meth-

odology such as reliability and validity of measuring techniques, statistical inference, control group designs, and pre- and post-tests. Clinical re-

search with children provides focus for discussion of research issues. PSYCHIATRY

492. Ped Consultation Orientation. (1.5) Sa. Prerequisite: Required for second-year child psy-

chiatri fellows, or consent of instructor. Seminar 1.5 hours. Shekleton

Discussion of goals, attitudes, and skills required in child psychiatry consultation/liaison work. PSY-

CHIATRY

493. Pediatric Consultation Seminar. (1.5) F. Prerequisite: Required for second-year child psy-

chiatri fellows, or consent of instructor. Seminar 1.5 hours. Shekleton

Discussion of formal consultations of cases requested by the Pediatric Inpatient Service, Child Study Center, Family Medicine Clinic, etc. PSYCHIA-

TRY

494. Com Consultation Literature Sem. (1) Sa. Prerequisite: Required for second-year child psy-

chiatri fellows, or consent of instructor. Seminar 1 hour. Reece, Siskorski

Review of literature and discussions on community consultation. PSYCHIATRY

495. Child Continuous Case Seminar. (1.5) F, W, Sp. Prerequisite: Required for second-year child psychiatry fellows, or consent of instructor for oth-

ers. Seminar 1.5 hours. Amstini

Participation with senior staff members in discus-

sion of ongoing dynamics of psychotherapeutic work with a preschool or late-adolescent child. PSYCHIATRY

496. Teaching & Supervision Seminar. (1) Sa, F, W, Sp. Prerequisite: Required for second-year child psychiatry fellows, or consent of instructor. Seminar 1 hour. I. Phillips

Discussion of supervision of general psychiatry resi-

dents and medical students. PSYCHIATRY

497. Adolescent Psychiatry. (1) F, W, Sp. Pre-

requisite: Required for second-year child psychiatry fellows, or consent of instructor. Seminar 1 hour. M. Schwartz

Discussion of clinical problems of adolescents. PSY-

CHIATRY


Review of biological bases and psychopharma-

cological approaches to child and adolescent psychia-

try. PSYCHIATRY

499. Child and Adolescent Forensic Seminar. (0.75) SS2. Prerequisite: Required for second-year child psychiatry fellows. Seminar 2 hours. Ten

A seminar discussing the major aspects of forensic

child and adolescent psychiatry relevant to the prac-

tice of the clinician. Topics covered include childhood sexual abuse, trauma, court evaluations, and custody issues. Required for Child Psychiatry Fol-

lows. PSYCHIATRY

Psychology

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 HLTH

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 individ-

ualize treatment. Appropriate treatment may then be planned to the practitioners' awareness of the unique needs of patients. DENT PUB HLTH

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 HLTH

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 re-

ducing the stress overload incurred by physicians, nurses, and other health care professionals. PSY-

CHIATRY

180.06. Clin Health Psych Seminar. (1.5) F, W, Sp. Prerequisite: Experience and/or course work in either research methods or clinical theory and intervention. Consent of instructor. Seminar 1.5 hours. Tenenholz

Participates and invited guests will present their in-

progress research ideas and proposals for research, data analyses, and/or manuscript drafts for critique. Relevant literature reports will also be discussed. PSYCHIA-

TRY

180.08. Brain Behavior Research Methods. (5) Sp. Prerequisite: Survey of physiological psychol-

ogy, or equivalent. Lecture 2 hours. Seminar 1 hour. Offered in alternate years. Offered 1989-90. Gallin and Staff

An extensive survey of techniques and strategies emphasizing critical appreciation of principles and range of appropriateness rather than how-to-do-it. Topics include clinical lesion studies, microscopic anatomy, neuroendocrinology, neurochemistry, psy-

chopharmacology, autonomic psychopharmacology, scalp electrophysiology, behavioral genetics, neu-

ropsychological assessment. PSYCHIATRY

181.02. Cerebral Hemispheric Specialization. (2) F. Prerequisite: Background in neurophysi-

ology, anatomy, cognitive psychology; intended for advanced students. Consent of instructor. Seminar 2 hours. Offered in alternate years. Offered 1989-90. Gallin

Group discussions of readings in seminar format of neurophysiology of hemispheric specialization and integration, developmental, psychiatric, and educa-

tional implications; evaluation of data from study of brain lesions, electrophysiological recordings, and behavioral testing. 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 medical students handle stress and apply such principles to management of patients. PSYCHIATRY

185. Nonverbal Communication. (1) W. 8-hour workshop plus research project. Not offered 1989-

90. Ekeren

Repeating messages from the face and body: what patients reveal without words about their feelings and needs, and what you are revealing to them. PSYCHIATRY

189. Supervised Study. (1-5) F, W, Sp. Staff

Library research and directed reading under supervi-

sion of a member of the faculty with the approval of the chairperson of the department. PSYCHIATRY

206. Learning & Cognition. (4) F. 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 1989-

90. Staff

Course provides a basis for continued reading of current research and theory in learning and cogni-

tion, and for designing interventions in health transac-

tions based on readings, identities and traces his-

tory of major issues and viewpoints. PSYCHIA-

TRY

204A-B. Computer Simulation of Human Interaction. (3-2) F, W. Prerequisite: Psychol-

ogy 257 or equivalent. Lecture 1 hour. Lab 6 hours. Not offered 1988-90. Starkweather

The development and testing of theoretical models of personality are explored by means of computer programs. Students program the computer for simula-

tion and symbol manipulation. PSYCHIATRY

205. History & Systems in Psychology. (3) F. Seminar 3 hours. Offered in alternate years. Not offered 1989-90. Staff

The history of psychology will be surveyed from the perspectives of contemporary views of the phi-

losophy of science and of psychology. Major sys-

tems of thought, perspectives, and approaches used will be reviewed, from earliest times to the present. PSYCHIATRY

205. Child Development. (5) 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; physical, mental, and social development and pre-social behavior; aggres-

sion, and self-esteem and competence. PSYCHIA-

TRY

210. Personality Psychology. (5) F. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. Not offered 1988-89. F. Cohen

General and systematic issues in the study of person-

ality: theoretical and methodological issues in the assessment of personality and in research on per-

sonality. PSYCHIATRY

211A-B-C. Theories of Personality. (2-2) F, W, Sp. Prerequisite: Graduate standing and consent of instructor. Psychology 211A is prerequisite to 211B & 211C, but may be taken independently. Seminar 2 hours. Enrollment limited. J. Fisher

Survey of major contemporary theories of personal-

ity, including some more recent, selected philo-

sophical points of view; study of their structure, how they conceptualize personality development, how they relate to empirical phenomena, and what re-

search is generated by them. PSYCHIATRY

174

173
212. Psychological Stress & Coping. (6) F, W. Prerequisite: Consent of instructor. Seminar 4 hours. Offered in alternate years. Offered 1990-99. F. Cohen Conceptualizes 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

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. Graduates 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. Offered 1990-99. 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 inference concerning brain activity obtained from scalp recordings. PSYCHIATRY

240. Social Psychology. (4) W. Prerequisite: Consent of instructor. Seminar 4 hours. Offered in alternate years. Offered 1989-90. Lieberman, Adler A critical review of social psychological theory and research. Topics include role theory, attribution theory, group dynamics, interpersonal relations, social influence, decision making, social conformity and change, and the application of social psychological problems of health and health 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


254B. Research Methods. (4) F, W, Sp. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. Not offered 1989-90. N. Adler An in-depth study of the research process with emphasis on quasi-experimental design, ethics of research, and grant writing. PSYCHIATRY

256. 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 1989-90. Atkinson Function and role 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

261A-B-C. Intro to Health Psychology. (1-1-1) F, W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Lecture 1 hour. Offered in alternate years. Offered 1989-90. Staff Provides an overview of the entire field of health psychology and places it in relationship to other areas of psychology and allied disciplines. Scientific, professional, ethical, and educational issues will be considered by means of lectures, discussion, and guest speakers. PSYCHIATRY

262. Psychosocial in Health Psychology. (1) W. Prerequisite: Consent of instructor. Lecture 1 hour. Seminar 2 hours. Offered in alternate years. Offered 1989-90. Cohen Examination of the problem of psychological knowledge and the role of the health system. 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. Not offered 1989-90. N. Adler Students will be placed in an ongoing research project in which they will carry out an individual project. They will participate in a concurrent seminar, where research methods and strategies, ethics, and problems of research will be discussed. PSYCHIATRY

266. Reproductive Behavior. (3) F, Sp. Prerequisite: Consent of instructor. Seminar 3 hours. Offered in alternate years. Offered 1989-90. N. Adler Examination of the role that psychological and social factors can play in a variety of reproductive behaviors: pregnancy, obstetrical complications, postpartum reactions, infertility, contraceptive use and contraception, spontaneous and induced abortions. PSYCHIATRY

281A-B-C-D. Clinical Research Seminar. (1.5-1.5-1.5-1.5) F, Sp, W, Sp. Prerequisite: Consent of instructor. Seminar 1.5 hour. Atkinson Seminar discussions of contemporary research in clinical psychology. Issues covered include major trends 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

281A-B-C-D. Intermediate Family Therapy. (1.5-3-3-3) F, W, Sp, 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 cycles, power and resistance systems, growth models of family therapy, and intervention techniques. Emphasis on clinical and practical issues, video presentations of families in treatment, clinical supervision of ongoing cases. PSYCHIATRY

290. Dissertation. (0) F, W, or Sp. Prerequisite: Advanced to candidacy and permission of the graduate advisor. Staff 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

149.01. Radiation Oncology Clerkship—UC. (1.5 per week) Su, W, W, Sp. Prerequisite: Medicine 1311A-B-C. Larson Participation in examination of cancer patients under treatment in radiation oncology. Students participate in rounds, conferences, and clinics, and are meant to understand the use of newer radiotracers and field techniques. RADIOTHERAPY

149.03. Radiation Oncology Clerkship—UCB. (1.5 per week) Su, W, Sp. Prerequisite: Medicine 1311A-B-C. J. Castro Participation in examination of cancer patients under treatment in radiation oncology. Students part-
Radiological Oncology/Radiology

140.06. Radiation Oncology Clerkship—MZ. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C.
J. Castro Participation in examination of cancer patients under treatment in the clinic. Students are expected to participate in rounds, conferences, and clinics, and see demonstrations on the use of newer radiotherapeutic techniques. RADIOLOGY

150.01. Research Selective—. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C.
Dewey Individual research in radiation oncology by arrangement with the chairman of the department. Students work under close supervision of a member of the staff. RADIOLOGY

T. Phillips Round includes presentation of problems cases with discussion of diagnosis and treatment as well as biologic implications. Frequent guest lectures are used to cover important aspects of oncology. RADIOLOGY

T. Phillips Seminars include discussions of the diagnosis, treatment, and results of specialty oncology problems, including head and neck, gynecologic, orthopedic, pediatric, dermatologic, lymphomas, and general malignancies. RADIOLOGY

Dewey Study of principles of radiobiology and their applications to radiotherapy. Seminar deals in depth with textbooks, selected readings, and prepared seminars leading to understanding of mechanisms of action of radiation in clinical radiotherapy. Oriented to radiotherapy fellows and residents. RADIOLOGY

V. Smith A workshop course to provide residents in therapeutic radiology with the elements of treatment planning and dose calculations. RADIOLOGY

Ling A lecture-seminar course with practical sessions to provide the residents with a basic knowledge of radiological physics with special reference to those aspects relating to therapeutic radiology. RADIOLOGY

T. Phillips Residents, under supervision, are responsible for diagnosis, treatment, and follow-up of patients referred to radiation therapy for the wards and outpatient clinics. Radiation therapy rounds include a 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 103, 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. (1.5 per week) Su, F, W, Sp. Prerequisite: Radiology 140.03 or 140.09 or 140.17. Consent of instructor.
Carlson 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. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C.
Carlson Clinical clerkship in approved hospital by special arrangement and approval of the chairman of the department and the dean. RADIOLOGY

140.03. Diagnostic Radiology. (1.5 per week) Su, F, W, Sp. Prerequisite: Third-year Medicine 131A-B-C; Fourth-year Medicine 110 and Surgery 110.
Carlson, S. Ross Clerkship in radiology for third- and fourth-year students. Observation of procedures, review of pathology, radiology, diagnosis, and natural history of selected diseases through study of mammograms with case histories. Potentials and limitations of radiologic method included. RADIOLOGY

140.04. Nuclear Medicine. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 131A-B-C.
Hattner Observation of basic nuclear medicine procedures and participation in diagnostic tests employing radiopharmaceuticals. RADIOLOGY

140.09. Diagnostic Radiology—SICH. (1.5 per week) Su, F, W, Sp. Prerequisite: Fourth-year standing or consent of instructor.
Magil A Students serve a clerkship in the Diagnostic Section of the Department of Radiology. They observe performance of radiologic procedures and interpretation of films, attend conferences, and learn basic philosophy of conducting radiologic examinations and the basic rules of interpretation. RADIOLOGY

140.14. Diagnostic Radiology—VAF & VMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Fourth-year standing, or third-year standing 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. RADIOLOGY

140.16. Basic Nuclear Medicine—STA. (1.5 per week) Su, F, W, Sp. Prerequisite: Fourth-year standing.
Corbus, Tsouya Imaging techniques including nuclear cardiology, single photon emission tomography, and computerized processing at St. Agnes Medical Center, Fresno. RADIOLOGY

140.17. Clinical Radiology. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of instructor.
Wall Students may be involved in clinical diagnostic procedures such as body and neuro computed tomography, ultrasound, fluoroscopy, chest, bone, and interventional radiography, with concentration on any one of these areas. Clinical or research projects may be undertaken with permission of the instructor. RADIOLOGY

150.01. Research in Radiology. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and approval of instructor. For students seriously interested in a career in academic medicine. Carlson, S. Ross A research clerkship under the direction of a member of the faculty. RADIOLOGY

S. Ross, Colangelo 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. RADIOLOGY

S. Ross, Colangelo A lecture course limited to small groups, with active participation on selected areas of pathologic anatomy and its usefulness in understanding disease, its origins, development, and clinical manifestations. RADIOLOGY

Perez-Mendez Introduction to the physics of radiotracers, nuclear instrumentation and gamma-ray imaging techniques. RADIOLOGY

170.09. Introduction to Nuclear Medicine. (3.5) Su, F, W, Sp. Prerequisite: Given concurrently with Radiology 170.08. Lecture 5 hours a week for 6 weeks. Independent study 10 hours.
P. Price Introduction to basic nuclear medicine diagnostic procedures, both in vivo and in vitro, and therapy with radionuclides. RADIOLOGY

Magil, Laing 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

Magil 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, abdominal and genito-urinary trauma, and management of contrast reactions. RADIOLOGY

198. Supervised Study. (1-3) F, W, Sp. Carlson and Staff Library research and directed reading under supervision of a member of the faculty with the approval of the chairman of the department. RADIOLOGY

199. Laboratory Projects. (1-5) F, W, Sp. Carlson and Staff A laboratory research project under direction of a member of the faculty with the approval of the chairman of the department. RADIOLOGY

220. Radiol Physics for Physicists. (2) F, W, Sp. Prerequisite: Bachelor's or higher degree in the physical sciences. Staff
Akin: Intralesional dermatologic seminars in which the radiological picture of problem cases rather than diagnostic or therapeutic nature is presented. These include medical-surgical, clinical-pathological, chest, medical X-ray, rheumatology, neurology, and neurosurgical surgery conferences; consultative tumor board; and surgical and orthopedic grand rounds. RADIOLOGY

410. Radiat Effects on Genes Chrom. (2) W. Prerequisite: Consent of instructor. Lecture 2 hours.
S. Woff: 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

Course includes review of surgical pathology material and attendance at autopsy rounds. RADIOLOGY

R. Gould: 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 ultrasonic 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 tissue, tumors, and cultures. Hypothesis is given to radioactive tracers such as thymidine and its precursors, and experimental methods for studying cell proliferation in vivo and in vitro. RADIOLOGY

Hattner and Staff: Rotating assignment of topics for discussion by residents in nuclear medicine training programs in all affiliated hospitals, Critical reviews of available information in limited areas used to provide a broad review of nuclear medicine for all residents. RADIOLOGY

450. Clinical Nuclear Medicine. (1.5 per week) F, F, W, Sp. Hattner and Staff: 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 ward and outpatient clinics. The chief resident has certain administrative duties relative to the chief resident training program. RADIOLOGY

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.

Zhacine: Course is designed to acquaint residents with multidisciplinary aspects of maxillofacial prostheses. Lectures will be given on maxillofacial prosthetic techniques, oncology, head and neck surgery, plastic surgery, oral surgery, treatment of maxillofacial trauma radiation, and physical therapy. RестOR DENT

Zwolsma: Residents and advanced prosthodontic students will observe and perform maxillofacial prosthetic 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. RестOR DENT

Restorative Dentistry

110A. Intro to Restorative Dentistry. (2) F. Prerequisite: Concurrent enrollment in RD 115A. Lecture 2 hours.
Brady and Staff: An introductory lecture course including tooth morphology, development and form of primary and permanent dentition, biomechanical effects on cavity preparation, and theory of cavity design and preparation. RестOR DENT

110B. Intro to Restorative Dentistry. (W) Prerequisite: RD 110A, 115A. Concurrent enrollment in RD 115B. Lecture 4 hours.
Brady, McNell, Marshall, Yip: Continuation of introductory course. Topics include application of individual tooth and arch forms to interarch relationships; the physics, chemistry, and metabolism ate used in dentistry; physical and chemical effects of dental materials (porcelain, composites, resins, waxes, cobalt, metals); instrumentation and procedures in cavity tooth preparation. RестOR DENT

110C. Intro to Restorative Dentistry. (2) Prerequisite: RD 110B and 115B. Concurrent enrollment in RD 115C. Lecture 4 hours.
Brady, Holmes, McNell, Marshall, Yip: Topics include physical and chemical responses to dental materials; principles of articulation; cast mounting, and waxing prosthodontics; biological background and clinical application of techniques used in complete denture prosthodontics; principles and procedures of intracoronal restoration of teeth. RестOR DENT

115A. Intro to Restorative Techniques. (2) F. Prerequisite: Concurrent enrollment in RD 110A. Lab 6 hours.
Brady, Hanaguchi: Introductory laboratory course in restorative dental techniques. Topics include study of individual tooth form and relationship to adjacent and opposing structures. RЕСТОR DENT

115B. Intro to Restorative Techniques. (2) F. Prerequisite: RD 110A and 115A. Concurrent enrollment in RD 110B. Lab 9 hours.
Brady, Hanaguchi, Yip: Continuation of restorative dental laboratory course. Topics include dental and anatomical relationships within the dental arch and between opposing arches, application of principles involved in cavity design and preparation. RЕСТОR DENT

115C. Intro to Restorative Techniques. (2) F. Prerequisite: RD 110B and 115B. Concurrent enrollment in RD 110C and 116. Lab 9 hours.
Brady, Hanaguchi, Yip: Continuation of restorative dental laboratory course. Topics include basic techniques of fixed prosthodontics and operative cavity design and preparation. RЕСТОR DENT

116. Primary Clinical Care. (2) Prerequisite: RD 110B and 115B. Lecture 1 hour. Clinic 3 hours.
Brady, Ealy: Introduction to clinical dentistry: students perform a comprehensive baseline examination of the oral cavity and evaluation of the patient’s health status. RЕСТОR DENT

Restorative Dentistry

Brady, Staff
Instructor in theory and principles of caries dental restoration, including fundamentals of construction; fundamentals of partial denture design and construction. RESTOR. DENT.

32BB. Rester Dent Techniques Theory. (3) W. Prerequisite: RD 120A, 125A, 126A. Concurrent enrollment in RD 125B. Lecture 4 hours.

Brady and Staff
Theory and principles of dental restorations: rationales for use of various clinical restorative materials, manipulation and clinical application of restorative systems; introduction to endodontics, including background for clinical practice, continuing discussions of theory and principles in operative dentistry, fixed and removable prosthodontics. RESTOR. DENT.

12OC. Rester Dent Techniques Theory. (5) Sp. Prerequisite: RD 120B, 125B, 126B. Concurrent enrollment in RD 125C. Lecture 5 hours.

Brady and Staff
This course concludes the preclinical lecture series in restorative dentistry. Theories and principles in the disciplines of biomaterials, endodontics, fixed prosthodontics, operative dentistry, and removable prosthodontics are interrelated, and clinical application of principles is studied. RESTOR. DENT.

125A. Restorative Dental Techniques. (7) F. Prerequisite: RD 110C, 115C, 116C. Concurrent enrollment in RD 120A. Lab 21 hours.

Brady and Staff
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. (5) W. Prerequisite: RD 120A and 125A. Concurrent enrollment in RD 120B. Lab 15 hours.

Brady and Staff
Continuation of laboratory instruction in the disciplines of endodontics, fixed and removable prosthodontics. Techniques include lab procedures involved in root canal therapy, instruction in ceramics, metal casting, and the fabrication of immediate dentures. RESTOR. DENT.

125C. Restorative Dental Techniques. (5) Sp. Prerequisite: RD 120B and 125B. Concurrent enrollment in RD 120C. Lab 15 hours.

Brady and Staff
Continuation of laboratory instruction in the disciplines of operative dentistry and removable prosthodontics. Techniques include build-up of teeth, bases, cements, and caries removal; composite/ceramic/veneer and the replacement of missing teeth. RESTOR. DENT.


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Holmes
Clinical instruction and practice in the disciplines of endodontics, fixed prosthodontics, operative and removable prosthodontics. Course is graded after student passes qualifying examinations at the end of spring quarter, third year. RESTOR. DENT.

139. Clinical Restorative Dentistry. (0-18) Su, F, W, Sp. Prerequisite: RD 120C, 125C, 126C. Concurrent enrollment in RD 130 lecture series required. Students are required to successfully complete a minimum of 5 units in RD 139. Clinic variable.

Tueller
Clinical instruction and practice in oral diagnosis and treatment planning. Students are required to pass a series of qualifying examinations by the end of spring quarter of the third year. RESTOR. DENT.


Rosenberg
Continuation of clinical instruction and practice in the discipline of endodontics. Students are required to pass a clinical qualifying examination by the end of spring quarter of the fourth year. RESTOR. DENT.


Holmes
Continuation of clinical instruction and practice in the discipline of prosthodontics. Students are expected to pass a clinical qualifying examination by the end of spring quarter of the fourth year. RESTOR. DENT.


Tueller, Lacy
Continuation of clinical instruction and practice in oral diagnosis, treatment planning, and removable dentistry. Students are required to pass a series of qualifying examinations by the end of spring quarter of the fourth year. RESTOR. DENT.


T. Curtis, Radke
Current and past prosthodontic literature will be reviewed and discussed. Students will learn to distinguish between appropriate, controversial, and inappropriate prosthodontic literature. RESTOR. DENT.


T. Curtis, Radke
Staff and program consultants will present lectures on various aspects of fixed and removable prosthodontics and related subjects on a graduate level. RESTOR. DENT.


M. Wilkins
Course will emphasize the dietary requirements for the geriatric prosthodontics patient. A dietary analysis of the student and the geriatric patient currently under treatment will be required. RESTOR. DENT.

175B-C. Biomaterials Science. (2-2) W, Sp. Prerequisite: D.D.S. degree. Open to dental students, postdoctoral and postgraduate students only. Seminar 2 hours.

Jendresen
Course covers biomaterials science as applied to clinical restorative dentistry with emphasis on restorative material selection and use, based on acceptable and physical and biological properties. Current and new restorative materials will be discussed. RESTOR. DENT.


M. McNell
Course is designed to provide the student with a basic ability to recognize, diagnose, and treat craniofacial pain and TMJ dysfunction in an interdisciplinary environment. The treatment will include medical and dental specialties. RESTOR. DENT.

179. 0A-B-C-D-E-F-G-H. Removable Prosthodontics Clinic. (0-5) A, E, Su, B, F, C, G.
Restorative Dentistry

180.04. Advanced Operative Theory. (1) F Prerequisite: Completion of RD 130.04. Lecture 1 hour. Birrell
Lectures and televised demonstrations covering cavity dentistry, welded field techniques, complex restorations, analysis of related research, and clinical applications of the various restorative procedures. RESTOR DENT

An elective course offering instruction in procedures and materials other than those normally used in the clinic. RESTOR DENT

181.02. Advanced Endodontics Concepts. (1) W. Lecture 1 hour. Rosenzweig
Diagnosis, case selection, and management of pain and infection in endodontically-involved teeth, advanced techniques for treating difficult root canal systems, refinements in obturation of the root canal system. RESTOR DENT

181.03. Fixed Prosthodontics. (1) Sp. Enrollmeni limited. Seminar 1 hour. Lurie
Individual staff members will offer seminar-type instruction on selected topics related to fixed prosthodontics. RESTOR DENT

181.04. Operative Dentistry. (1) W. Prerequisite: RD 180.04 (formerly Operative Dentistry 180). Lecture 1 hour. Birrell
Continuation of Operative Dentistry 180.04. RESTOR DENT

199.02. Endodontics Laboratory Project. (1-5) SS1, W, Sp. Prerequisite: Consent of instructor and approval of the chairperson of the department. Lab 3-15 hours.

199.03. Fixed Prosthodontics Laboratory Project. (1-5) F, W, Sp. Prerequisite: Consent of instructor and approval of the chairperson of the department. Lab 3-15 hours.

199.04. Operative Dentistry Laboratory Project. (1-5) F, W, Sp. Prerequisite: Consent of instructor and approval of the chairperson of the department. Lab 3-15 hours.

Sociology

130. Sociocultural Variations in Old Age. (5) SS2, W, Sp. Lecture 2 hours. Lab 3 hours. R. Stables
Course addresses sociocultural variations in health with implications for nursing practice. SOC BEH SC

134. Women, Health, and Healing. (3) SS2, W, Sp. Lecture 2 hours. Lab 3 hours. V. Olesen
Course analyzes women's roles in women's roles in particular in health care receipt and delivery, with special emphasis on recruitment to health professions, images of women in psychological situations, and cross-cultural features of health care. SOC BEH SC

Course addresses the organization of health care and its politics, with emphasis on both United States and international health issues. SOC BEH SC

178. Supervised Study. (1-5) SS2, 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. Social Psychology of Chronic Illness. (3) SS2, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. G. Becker
Course provides discussion of problems faced by chronically ill persons and their families including crisis management, handling symptoms, managing regimen, social isolation, phases of disease, psychosocial difficulties, normalization, dying, as well as policy issues confronting health care personnel and the general public. SOC BEH SC

205. Health Professions, Occupations, and Work. (3) SS2, W. Lecture 2 hours. Lab 3 hours. C. Harrington
Course examines the nature of occupations and professions, their consolidation in hospitals and clinics, the medical divisions of labor, specialties and specialization, professional and occupational ideologies, the sociology of work relationships, careers. SOC BEH SC

207. Sociology of Health & Medicine. (3) SS2, W, Sp. Lecture 2 hours. Lab 3 hours. C. Estes
Course introduces the student to critical 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 Psychology of Hitts & Illness. (3) SS2, W. Prerequisite: Required for graduate students in sociology. Lecture 2 hours. Lab 3 hours. V. Olesen
Course covers the relationship of social class, ethnic identification, group membership, family structure, occupation, and life style to health and illness, and therapeutic interaction of patients and health professionals. SOC BEH SC

209. Sociology of Power. (2-4) SS2, W, F, Sp. Prerequisite: A graduate-level sociology theory course. Restrictions: Doctoral students only. Lecture 2-4 hours. C. Estes
Course surveys the classical and contemporary sociological issues in theoretical and empirical work on power; explores underlying assumptions and paradigms emerging in reflecting a sociopolitical milieu. The student will analyze literature and debates on power structure research and theory. SOC BEH SC

212A. Sociological Theory. (3) SS2, W. Lecture 2 hours. Field work 3 hours. C. Estes
Course examines and evaluates classical and recent contributions to sociological theory. The main objective is the generation of a critical capacity with
213B. Sociological Theory. (3) Sp. Lecture 2 hours. Field work 3 hours. Required for graduate students in Sociology.
A. Clarke
Course consists of readings and discussions on interactionist theory in sociology, with emphasis on the origins and development of the Chicago School of Sociology, as well as an examination of the link between philosophy of pragmatism and interactionism. SOCI 213B

214A. Field Research. (3) F, Sp. Prerequisite: Doctoral level. Lecture 2 hours. Lab 3 hours.
L. Schatzman, V. Olsen
Course offers sociological perspectives on the dimensions and properties of research in natural social settings. Focus upon developing skills in negotiating, in watching, listening, and in recording of data; emphasis upon developing conceptual schemes in preparation for analysis. SOCIO BEH SC

214B. Qualitative Analysis. (3) W. Prerequisite: Doctoral level; Sociology 314A. Lecture 2 hours. Lab 3 hours.
V. Olsen, L. Schatzman
Course examines modes of analysis applicable to qualitative data; emphasis on dimensions and properties exhibited in student-presented data. SOCIO BEH SC

214C. Qualitative Analysis. (3) F, W, Sp. Prerequisite: Doctoral level; Sociology 214A and 214B. Lecture 2 hours. Lab 3 hours.
Staff
Course provides qualitative analysis and the development of substantive and formal sociological theory. Ethnograph is an end student-presented data and their conceptualization. SOCIO BEH SC

B. Luefe
Course will place students in organizations to provide opportunities to conduct research; apply and develop organizational theory; develop applied sociological, practical, and administrative skills and experience for students, and make sociologists attractive and salient to orientations outside academic settings. SOCIO BEH SC

216. Comp Orgs: National & Intl Perspec. (3) F, W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Staff
Course is a comparative review of contributions to the sociology of formal organizations of health care. A variety of organizational forms will be considered with special emphasis on external and international health care comparisons. SOCIO BEH SC

R. Staples
Course explores changing family, sexual, sex-role, marital, and familial patterns in the United States. Discussion of ethnographic models of family life as affected by sociocultural forces. Special emphasis given to changing sex-role behavior as affecting male-female relationships. SOCIO BEH SC

218. Adv Topics in the Socio-Analysis of Aging. (2-4) F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-6 hours.
C. Estes
Course is designed for doctoral students investigating advanced research issues preparatory to qualifying examinations. Topics to be analyzed will vary each year, but will be focused upon a specific area. Laboratory assignments are for research activities on special topics in the area of aging. SOCIO BEH SC

219. Social Policy & Aging. (2-4) W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-6 hours.
C. Estes
Course will provide a critical analysis of major social, economic and political issues of growing old in America; will examine social policy in the public and private sector including health, income, and social services; and consider prospects for social change and political movements. SOCIO BEH SC

220. Sociology Seminar. (2-0) F, W, Sp. Prerequisite: Consent of instructor. Required for graduate students in Sociology. Seminar 2 hours. Lab 0-6 hours.
C. Estes
Course presents modern ideas and methods for topics of current research. Course may be repeated for credit. SOCIO BEH SC

221A/B/C. Qualifying Examinations. (4-4-4) F, W, Sp. Prerequisite: Sociology 216 recommended but not required and consent of instructor. Lab 3-9 hours. Conference 1 hour.
Staff
Qualifying examinations for graduate students in sociology are given in three areas: sociological theory, medical sociology, and social interaction. The course will provide opportunities for preparation in each area. SOCIO BEH SC

223. Perspectives on Public Policy. (3) W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0 hours.
A. Benjamin
Course offers systematic overview of health policy in American government—its scope, dynamics, and conceptual and practical dilemmas. Students will become acquainted with students in major issues involved in formulating, financing, implementing, and assessing patterns of decision (i.e., policy) established by government. SOCIO BEH SC

225. Policy & Health Care Institutions. (3) F, W, Sp. Prerequisite: Nursing 287A or consent of instructor. Lecture 2 hours. Lab 3 hours.
R. Newcomer
Course covers contemporary and analytical approaches to understanding the development of health policy and relationships between health policy and decision making within health care institutions. SOCIO BEH SC

226. Families of the Third World. (3) F, W. Lecture 3 hours. Lab 3 hours.
R. Staples
Course examines family structure and dynamics among Third World peoples. Families to be discussed include African and Afro-American, Asian, Native American, and Latin American. Emphasis is on continuities in the family life of these groups in their native land and in the United States. SOCIO BEH SC

229. Sociology of Stress. (3) F, W, Sp. Prerequisite: Consent of instructor. Restriction: Doctoral students only. Lecture 2 hours. Lab 3 hours.
L. Pearl
Course explores current theories and research dealing with sources of stress and coping mechanisms. Course examines the conditions and experiences that act as stressors, coping behaviors, the nature and functions of social support systems, and the health consequences of stress. SOCIO BEH SC

V. Olsen
Course examines the history and social psychology of AIDS in relation to health, illness, disease, and death. Includes demographic trends, the cost burden, and special problems of minorities, women, and adolescents, along with policy issues. SOCIO BEH SC

231. Social Psychology of Aging. (3) F. Prerequisite: Consent of instructor. Restriction: Doctoral students only. Lecture 2 hours. Lab 3 hours.
L. Pearl
Course examines the socio-psychological aspects of aging and life cycle changes. Course also examines the socialization of an aged role, norms for older people, and special problems of aging individuals. SOCIO BEH SC

V. Olsen
An advanced seminar dealing with theoretical and conceptual problems in various areas of social psychology. Recent developments in theory and concepts will be reviewed. SOCIO BEH SC

J. Wood Curry
Course reviews theories of aging including a review of theories of aging, current and historical trends in aging, factors related to aging, effects of aging on individuals and families, and formal and informal service systems for an aging population. SOCIO BEH SC

234. Health & Aging. (2-3) F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-3 hours.
R. Newcomer
Course examines the health status of the aged in the United States relative to biological, behavioral, sociocultural, and environmental factors. Social, cultural, and economic factors affecting organization, financing, and delivery of health care to the aging population will be examined. SOCIO BEH SC

235. Health Factors in Marital & Family Behavior. (3) F, W, Sp. Prerequisite: Consent of instructor. Graduate standing. Lecture 2 hours. Lab 3 hours.
R. Staples
Course explores how marital and family behavior generates mental and physical health problems. Topics are family violence, child abuse, sexually transmitted disease, suicide, psychological problems, and the relationship of marital status to morbidity and mortality. SOCIO BEH SC

236. Race-Class Factors in Illness Care Delivery. (3) W. Prerequisite: Consent of instructor. Graduate standing. Lecture 2 hours. Lab 3 hours.
R. Staples
Course examines racial and class membership impact on access to health care services, variations in the quality of those services, and how professional and subprofessional roles in the health care system are organized along racial and class lines. SOCIO BEH SC

P. Fox
Graduate introduction to history of sociological thought. Provides perspective and vocabulary for examining major works of thought which constitute sociological traditions. Discussion of core paradigms and their relationship to theory will provide understanding of sociological work. SOCIO BEH SC

V. Olsen
Course offers students opportunity to work with both theoretical and research questions on the subject of women's health care issues. Current trends in research and focusing methodology will be considered. SOCIO BEH SC

239. Evaluation Research Methods. (3) F, W. Prerequisite: Sociology 214A and 214B. Non-doctoral students may enroll upon approval of instructor. Lecture 2 hours. Lab 3 hours.
241. Old Men and Their Health. (2-4) § F. Seminar 2 hours. Optional project for additional units.

V. Olsen, J. Zones
Course analyzes postmenopausal women's changing 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.

242. Women's Health. Res. (2-4) § Sp. Prerequisite: One or more women's health courses and one survey course in social research methods or social epidemiology. Seminar 2 hours. Optional project for additional units.

V. Olsen, J. Zones
An advanced survey of quantitative research methods in analysis of women's health issues. Will focus on data sources, sampling types, evaluations methods, data analysis, and proposal and report writing. Exploration of current research controversies. SOC BEH SC.

243. Qualitative Research in Women's Health. (2-4) § W. Prerequisite: One or more women's health courses and one course in qualitative methods. Doctoral students only. Seminar 2 hours. Optional project for additional units.

V. Olsen
An advanced survey of qualitative research methods in analysis of women's participation in health and healing systems. Will review epidemiological in- terviews, analytic strategies, design and modes to assure credibility, plausibility. Will focus on data sources and analysis of data. SOC BEH SC.

A. Clarke
Course is a study of historical and contemporary issues in the social construction of biological and medical sciences, epistemological problems, and feminist perspectives. Focus is on impact of gender on scientific work and includes scientific construction of gender and women's careers in science. SOC BEH SC.

247. Policy Issues & Political Processes. (3) § W. Seminar 2 hours. Lab 3 hours.
C. Harrington
Seminar focuses on issues and trends in legislation and politics of aging and long-term care. Discussion will cover professional roles and development of strategies to influence legislative and policy processes that affect the planning and delivery of care. SOC BEH SC.

248. Group Independent Study. (1-8) § F, W. Prerequisite: Consent of instructor. Seminar 1-8 hours.
Staff
Groups of two or more students select special problems to investigate on a collaborative basis. These studies may be conducted through readings, the collection or analysis of empirical data, or the development of conceptual analysis or methodologies. SOC BEH SC.

249. Special Studies. (1-8) § F, W. Prerequisite: Consent of instructor. Staff
Students select special topics 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 methodologies. SOC BEH SC.

251. Women's Health: Socio-Cultural. (2-4) § F. Prerequisite: Consent of instructor. Lab 0-6 hours. Seminar 2 hours.
V. Olsen, E. Loh
Exploration of relationship between culture and health for women in non-Western societies. Effect of modernization and migration on utilization of traditional and contemporary health care and on women's roles as providers will be discussed, and contemporary controversies will be analyzed. SOC BEH SC.

252. Women's Health: Socio-Historical. (2-6) § W. Prerequisite: Consent of instructor. Lab 0-6 hours. Seminar 2 hours.
V. Olsen, A. Clarke
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: Life Cycles. (2-4) § W. Prerequisite: Consent of instructor. Lab 0-6 hours. Seminar 2 hours.
V. Olsen
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.

254. Women's Health: Policy Issues. (2-4) § W. Prerequisite: Consent of instructor. Lab 0-6 hours. Seminar 2 hours.
V. Olsen
Consideration of factors in the emergence of issues in women's health and related policy. Perspectives on women as policymakers and the implementation of policy in women's health, participation in care and healing systems and access to training. SOC BEH SC.

255. Environmental Sociology. (2-4) § F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-6 hours.
V. Olsen
Sociological analysis of health-related issues emerging 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) § Sp. Prerequisite: BIS 100 or equivalent. Restriction: Doctoral level; non-doc- toral students may enroll upon consent of instructor. Lecture 2 hours. Lab 0-3 hours.
R. Newcomer
Course introduces sample theory, sample development, and methods of survey research. Course provides routine skills for those conducting their own surveys, and large field surveys. SOC BEH SC.

262. Health Care Economics. (3) § F. Lecture 2 hours.
C. Harrington
Course is 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, professional practice, and individuals and families. SOC BEH SC.

266. Leadership in Long-Term Care. (3) § W. Prerequisite: Consent of instructor. Seminar 2 hours. Lab 0-3 hours.
C. 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. SOC BEH SC.

274A. Quantitative Methods I. (3) § F. Restricted: Doctoral students in Sociology or consent of instructor. Lecture 2 hours. Lab 0-3.
R. Newcomer
Course examines quantitative research methods including issues of sampling, reliability and validity, data collection, analysis, and inference. The course examines experimental, quasi-experimental, and post-hoc, and correlational research, as well as survey and evaluation methods. SOC BEH SC.

270C. Research Methods Seminar. (3) § Sp. Prerequisites: S270A and S270B. Quantitative Methods in Sociological Inquiry I & II. Restriction: Doctoral students in Sociology or consent of instructor. Seminar 3 hours.

Staff
Advanced seminar in research methods. Students will be able to appreciate the complexity of issues and challenges of integrating qualitative and quantitative research traditions through discussion and exercises which formalize alternate research ap- proaches. SOC BEH SC.

271. Professional Issues Seminar. (2) § F, W. Restricted: Doctoral students in Sociology or consent of instructor. Seminar 2 hours.
Staff
Seminar addresses professional and career issues for sociologists, including teaching, research, writing for publication, and presentations at professional meetings. Focus includes committee work, educational planning, resume development, internships, mentorships, and job interviews. SOC BEH SC.

272. Dissertation Research Seminar. (3) § F, W. Restricted: Doctoral students in Sociology or consent of instructor. Seminar 2 hours. Lab 0-3 hours.
Staff
Course addresses logic of research design and execution for students. Clarification of research questions, delineation of work plan, and orientation to relevant theoretical literature or empirical data available. SOC BEH SC.

273. Demography of Health and Aging. (3) § W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0-3.
M. LaPlante
Course provides an overview of demographic studies of morbidity, disability, and mortality. Socioeconomic variations and changes over time in health and mortality profiles of populations and the relationship of morbidity, disability, and mortality trends will be covered. SOC BEH SC.

274. Sociology of Human Sexual Behavior. (3) § F, W. Restricted: Doctoral students in Sociology or consent of instructor. Seminar 2 hours. Lab 0-3.
R. Staples
Course examines contemporary sexual problems from a sociological perspective focusing on issues and their relationship to social structure. Topics will include sexually transmitted diseases, teenage pregnancy, sexual violence, sexual harassment, and incest. SOC BEH SC


B. Liese
Course considers current research, policy, and funding issues with regard to the mental ill elderly, within the context of the epidemiology, treatment options, utilization patterns, formal and informal treatment systems, and special issues of the mentally ill elderly. SOC BEH SC


G. Becker
Course provides clinical experience in multidisciplinary assessment for social workers, nurses, physicians, and other clinicians. Course involves applications of social, psychological, economic, and other factors in assessment. SOC BEH SC

299. Dissertation. (0-0) 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. SOC BEH SC

Speech and Hearing Science

201. Basic Hearing Mechanisms. (4) F. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 1 hour. Offered in alternate years. Offered 1989-90.
Staff
Topics include the basic components of the ear: receptor, auditory nerve, brainstem, and cerebellum. The mechanism of hearing is discussed. OTO-LARYN

204. Speech Production and Perception. (4) F T. Lab 2 hours. Seminar 3 hours. Turnover This course is part of a two-year core curriculum covering the science of speech and language. It will cover basic anatomy, physiology, acoustics, the phonetics, the physiology and psychology of speech production, and the anatomy and physiology of speech perception. OTO-LARYN


Schreiner
Reading and critical discussion of selected original research papers on the anatomy and physiology of the auditory system. The level of the auditory nervous system from the periphery to the cortex will be covered in turn. OTO-LARYN

211. Sound and Sound Analysis. (4) F W. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 2 hours. Offered in alternate years. Offered 1989-90.
Staff
Review of the physics of sound as it applies to study of speech and hearing. Theoretical and practical approaches to the analysis of signals and the fundamentals of systems analysis. Practical application of acoustic equipment. OTO-LARYN


Staff
This seminar series will consist of weekly presentations by the faculty, students, and research personnel in the department, and visiting scientists. Topics will cover the range of speech and hearing sciences, including auditory, speech, hearing sciences, voice, speech, clinical diagnosis, and rehabilitation. OTO-LARYN

221. Electrophysiology & Audiology. (4) F. Prerequisite: Consent of instructor. Lecture 3 hours.

Lab 3 hour.

Gissel and Staff
Review of the development of electrophysiological techniques used in audition and hearing. Particular emphasis on auditory-evoked response. Laboratory work and clinical exercises will be an important part of the course. OTO-LARYN

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 microphonic, VIII nerve physiology, thresholds, masking, pitch, loudness, interaural, temporal adaptation, frequency analysis, binaural perception, and processing are included. OTO-LARYN


Jenkins
Reading and discussion of selected papers on modern behavioral methods for obtaining information on the sensory capacities of animals. Students will have access to equipment and a microcomputer so that one or more behavioral methods can be implemented.

225. Inner Ear Function and Function. (2) F W. Sp. Prerequisite: Consent of instructor. Lecture 2 hours.

Leake
This course will cover the gross morphology, histology, ultrastructure and function of the mammalian cochlea and vestibular sensory organs. Instruction will include lectures, demonstrations, dissections and student presentations. OTO-LARYN

247. Special Studies. (1-5) F W. Sp. Prerequisite: Consent of instructor.

Staff
Directed reading and laboratory work in the auditory nervous system and disorders. OTO-LARYN

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. OTO-LARYN

250. Research. (1-9) F W. Sp. Prerequisite: Consent of instructor.
Staff
Students participate in ongoing research or initiate independent research projects under guidance of supervising instructor. Assignments include literature review, design of research, execution of research, data reduction and analysis, and reporting. OTO-LARYN

299. Dissertation. (0-0) 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. OTO-LARYN

Surgery

110. Surgery Core Clerkship. (1.5 per week) Su. F W. Sp. Prerequisite: Medicine 110 and Surgery 110.

Pelligrini
Core general clerkship in surgery. Students assigned to wards and clinics at UCSF, SFVA, and C. The application of basic sciences, pathology, radiology, and pharmacology to surgery is emphasized in ward rounds and seminars. SURGERY

111. Advanced Surgery Core Clerkship. (1.5 per week) Su. F W. Sp. Prerequisite: Medicine 110 and Surgery 110.

Reilly
Students are senior clerks on wards, in operating rooms, and in other clinical areas. SURGERY

140.01. Advanced Surgery Clerkship. (1.5 per week) Su. F W. Sp. Prerequisite: Surgery 110 and 111.

F. Lewis
Senior clinical clerks participate in ward, ward, and operating room with direct involvement in postoperative and preoperative care in U.C., SFVA, and C. SURGERY

140.02. Off-Campus Clerkship. (1.5 per week) Su. F W. Sp. Prerequisite: Core curriculum in basic sciences and Medicine 110 or Surgery 110 and 111.

Dobbs
Clinical clerkship in approved hospitals in other universities by special arrangement and approval of the chairman of the department and the dean. SURGERY

163.01. General Surgery—VMC. (1.5 per week) Su. F W. Sp. Prerequisite: Surgery 110.

Russell
Students serve as acting interns on general surgical service; participate in preoperative assessment, operative management and postoperative care of patients; participate in outpatient clinic as well as selected physicians’ offices; participate in daily ward rounds and teaching conferences. SURGERY

140.00. General Surgery—C. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111.

C. Richards

Students work as interns on Surgical Service; they evaluate general surgical patients preoperatively; work with patients in operating room; must graduate, in increasing responsibility in postoperative management. Rounds and conferences enhance clinical experience; interaction with staff on patient care. Emphasis: SURGERY.

140.09. Trauma Surgery—SFHG. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111 and consent of instructor.

F. Lewis

Clinical clerkship in the Trauma Service of the Department of Surgery at SFHG. The student will work at the intern–chief level as an integral part of the surgical team. SURGERY.

140.10. Cardiothoracic Surgery. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 & 111.

Verrier

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 clinics and conferences and daily ward rounds provide the didactic teaching. SURGERY.

140.11. Burn Care—SFHG. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111.

J. Horn

Clinical rotation on a large Burn Center Service. Pathophysiology of thermal injury including pulmonary aspects will be stressed. Students act as a integral member of the team and participate directly in patient care. SURGERY.


Mathes

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, hands, and surgery, and congenital anomalies. SURGERY.

140.13. General Surgery—VAF. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111.

O’Flahor

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.


Park

Clerkship offers an “organ systems” approach to critical surgical illness with experience in intensive 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—VMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111. Fourth-year students only.

Park

Presents a clinical spectrum in critical-care medicine: burns wound infections, control, resuscitation, management, hemodynamic monitoring, with emphasis on appropriate nutritional and metabolic support. Also stressed are psychological and emotional needs of patients. Students participate as full members of the Burn Team. SURGERY.


Hickman, Weaver

Students will be instructed in the formulation and administration of parenteral and enteral feedings; the interrelated fields of medical and surgical nutrition; the management of metabolic/nutritional problems. Students will perform nutritional assessments and activity, and participate in daily rounds at San Francisco General Hospital. SURGERY.

140.17. Pediatric Surgery. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111. Clinic 45.

d’Lormier, Harrison

The student will be functioning in the postoperative care of neonates and children. The student will be participating in care of the postoperative patient in the special Surgical Intensive Care Unit. Emphasis will be placed on teamwork, including communication between the surgical and nursing staff. SURGERY.

140.18. Liver Transplantation. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110, Surgery 110.

Ascher and Staff

Students will participate in evaluation of potential liver recipients, including HLA typing, crossmatch, immune monitoring, observe the liver transplant procedure, participate in postoperative care (including immunosuppressive management and mechanisms of graft rejection). Students will attend pertinent conferences, clinics, and daily rounds.


Parks, Ladonen

Secure clinical responsibilities include participation as member of busy patient care team, with emphasis on pre- and postoperative care, supervised clinic and operating room assignments, and participation in departmental conferences. The aim is to provide exposure to a spectrum of elective and emergency surgical problems. SURGERY.

150.01. Research in Surgery. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of instructor.

Hoff

Opportunities for research in one of the departmental laboratories by arrangement with the instructor. SURGERY.

160.05. Advanced Surgery Reading. (2) F, Sp.

Lewis

A weekly seminar where previously assigned papers are discussed and critiqued. Papers representing the classical and current concepts in general surgery are covered. SURGERY.

160.06. Total Parenteral Nutrition. (5) Su, F, W, Sp. Prerequisite: Surgery 110 and consent of instructor. Lecture 3 hours, lab 6 hours.

Hickman

Course emphasizes nutritional and metabolic requirements of injured, ill, and malnourished patients. Clinical rotation involves methods of preparation, administration, and assessment of patients receiving intravenous nutrition. SURGERY.

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

Debav and Staff

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

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

Debav and Staff

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

200. General Surgery Staff Conf. (1.5) F, W, Sp. UC Debav, SFHG Lewis, 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.


McKeever

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


RDCCC Heer, SFHG Lewis, UC Debav, VA L. Way

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. (1.5 per week) Su, F, W, Sp. UC Debav, SFHG Lewis, VA L. Way, RDCCC Heer, C. F. Richards, PAE 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 additional administrative, teaching, and clinical responsibilities. SURGERY.

452. Experimental Surgery Laboratory. (1.5 per week) Su, F, W, Sp. Nasnan and Donati. SURGERY and 450 may not be taken concurrently.

Debav and Staff

Course includes experimental investigations of general surgical problems and the development of technical and laboratory methods to be applied in general surgery. SURGERY.


Residents rotate in off-campus hospitals approved by the chairperson of the department and the dean. Course includes clinical and experimental investiga-
sions of general surgical problems and the develop-
ments of technical and laboratory methods to be
applied in surgery. SURGERY

490. Clinical Surgery—SPGH. (1.5 per week) Su,
Lewis
Interns rotate through the general surgical service,
including the intensive care unit. Under the direc-
tion of the attending staff, experience is provided in
vascular, chest, hand and plastic surgery, and surgery
of maxillofacial injuries. SURGERY

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

Teaching Methodology

Prerequisite: D.D.S. degree. Seminar 2 hour.
Staff
Course provides resource information in the form
of a systematic overview of educational technol-
ogy. This information is introduced in conjunction
with the development by the individual student of an
actual microcourse, teaching a single skill. GEN
DENT

176. Practice Teaching. (1) F, W, Prerequi-
site: D.D.S. degree. Clinic 3 hour.
Staff
Practical teaching experience in selected courses
under the supervision of members of the staff. GEN
DENT

186.01A-B-C. Practice Teaching. (0-2, 0-3, 0-
3) F, W, Sp. Lab 3 hours.
Staff
Practical teaching experience in selected courses
under the supervision of senior members of the
staff. GEN DENT

Urology

Core Clerkship—Surgery 110 includes clinical
clerkships in the inpatient clinics and hospitals,
outpatient clinics. Second- and third-year resi-
dents, under supervision, perform instrumental ex-
aminations on clinic patients. Senior residents, un-
der supervision, perform instrumental and surgical
procedures and have administrative, clinical, and
teaching responsibilities. UROLOGY

490. Clinical Urology—SPGH. (1.5 per week) Su,
McAninch
Interns rotate through urological wards. Under the
direction of the attending staff they are responsible for
the care of patients, including history-taking,
physical examination, laboratory tests, and consulta-
tion. UROLOGY