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Admission

Admissibility to the University of California is a condition for admission to a professional school or curriculum, but does not guarantee a place in the class. The University's admission requirements are summarized briefly below. For further information, consult the Introducing the University bulletin available at the Admissions Office on any UC campus.

Admission with a Bachelor's Degree

Students entering the University in any professional curriculum with a bachelor's degree or higher degree from an approved institution must have attained a minimum gradepoint average of 2.0 (2.8 if a nonresident) in all academic work attempted. The program of studies leading to the bachelor's degree must be substantially equivalent in academic subjects to the bachelor's degrees awarded by the University of California.

Admission without a Bachelor's Degree

Applicants for admission to any professional school on the San Francisco campus must have some college preparation. Applicants must have attained a minimum grade-point average of 2.4 (2.8 if a nonresident), unless an applicant has attended a University of California campus as a full-time student or was UC eligible from high school. If so, a minimum 2.0 grade-point average is required.

Applicants without a baccalaureate degree who are unable to provide proof of having successfully completed four years of high school English or equivalent will be required to fulfill this general University of California admission requirement by taking English courses in addition to those required for admission. They must also satisfy the American History and Institutions and Subject A requirements.

For more information, write to the Admission Office of the particular school (see Addresses, p. 34).

Courses

This is a compendium of the courses of instruction offered by the University of California San Francisco. Additional courses are offered by the schools (see Addresses section) under their programs of Continuing Education. 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. 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.

Course Description. Course information is arranged in three paragraphs. The first paragraph includes course number, title, units (in parentheses), session offered, prerequisite, format and breakdown of hours per week. The second paragraph names the instructor(s) in charge. The third 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 meaning of the second (tens) and third (units) digits varies among the schools.A detailed explanation of course numbering 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 Hospitals Instructional Units Alta Bates-Herrick Hospital, Berkeley

ANATOMY AS Department of Anatomy, School of Medicine Atascadero State Hospital, Atascadero ANESTHESIA BDC Department of Anesthesia, School of Medicine BIOCHEM Department of Biochemistry and Biophysics, School of Medicine **BIOPHARM SC** Department of Biopharmaceutical Sciences, School of Pharmacy **CL PHARM** Division of Clinical Pharmacy, School of Pharmacy COMM HLTH SYST Department of Community HealthSystems, School of Nursing DENT PUB HLTH Department of Dental Public Health and Hygiene, School of Dentistry DERMATOL Department of Dermatology, School of Medicine **EPID & BIOSTAT** Department of Epidemiology and Biostatistics, School of Medicine FAM CM MED Division of Family and Community Medicine, School of Medicine FAM HLTH Department of Family Health Care Nursing, School of Nursing GR DEVEL Department of Growth and Development, School of Dentistry HIST HL SC Department of History of Health Sciences, School of Medicine LAB MED Department of Laboratory Medicine, School of Medicine MEDICINE Department of Medicine, School of Medicine MICROBIOL Department of Microbiology and Immunology, School of Medicine NEURO SURG Department of Neurological Surgery, School of Medicine NEUROLOGY Department of Neurology, School of Medicine OBGYNRS Department of Obstetrics, Gynecology and Reproductive Sciences, School of Medicine OPHTHALMOL Department of Ophthalmology, School of Medicine ORAL & MAX SURG Department of Oral and Maxillofacial Surgery, School of Dentistry ORTHO SURG Department of Orthopaedic Surgery, School of Medicine OTOLARYN Department of Otolaryngology, School of Medicine PATHOLOGY Department of Pathology, School of Medicine PEDIATRICS Department of Pediatrics, School of Medicine PHARM CHEM

Department of Pharmaceutical Chemistry, School of Pharmacy

Buchanan Dental Clinic C California Pacific Medical Center-California campus, San Francisco (formerly Children's Hospital) CHMC Children's Hospital Medical Center of Northern California, Oakland CHS Community Hospital, Santa Rosa CM ErnestV Cowell Memorial Hospital. Berkeley CSP Center for Special Problems, San Francisco DCH Sutter Davis Hospital, Davis DMC Davies Medical Center, San Francisco FCH Fresno Community Hospital and Medical Center, Fresno FR Kaiser Foundation Hospital-French campus, San Francisco GS Good Samaritan Hospital of Santa Clara Valley, San Jose Highland General Hospital, Oakland Kaiser Foundation Hospital, San Francisco KH Kaiser Foundation Hospital, Honolulu KHDV Kaweah Delta District Hospital, Visalia KP Kaiser Foundation Hospital, Oakland KS Kaiser Foundation Hospital, Sacramento KSSF Kaiser Foundation Hospital, South San Francisco KWC Kaiser Foundation Hospital, Walnut Creek LBL Lawrence Berkeley Laboratory, Berkeley LH Laguna Honda Hospital and Rehabilitation Center, San Francisco LPPI Langley Porter Psychiatric Hospitals and Clinics, San Francisco MC Maricopa Medical Center, Phoenix MG Marin General Hospital, Greenbrae MHLB Memorial Medical Center, Long Beach MZ Mount Zion Medical Center of UCSF, San Francisco NAT Natividad Medical Center, Salinas NRMC Naval Hospital, Oakland NS Napa State Hospital, Napa OC O'Connor Hospital, San Jose Mills-Peninsula Hospitals, Burlinganie PMC California Pacific Medical Center-Pacific campus, San Francisco

PHARMACOL Department of Pharmacology, 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

STOMATOL Department of Stomatology, School of Dentistry

SURGERY Department of Surgery, School of Medicine

UROLOGY

Queen's Medical Center, Honolulu

RLA LAC-Rancho Los Amigos Hospital, Downey

Stanford University Hospital, Stanford

SCC Santa ClaraValley Medical Center, San Jose

SDH Selma District Hospital, Selma

SFGH San Francisco General Hospital Medical Center, San Francisco

SGH Scenic General Hospital, Modesto

SH Shriners Hospital for Crippled Children, Honolulu

San Joaquin General Hospital, Stockton

SM Samuel Merritt Hospital, Oakland

The UCSF General Catalog is also available on the World Wide Web:

Les 16 and a day loss for and here the

Anatomy

SMC Seton Medical Center, Daly City

SRM

Santa Rosa Memorial Hospital, Santa Rosa

SS

Sonoma Developméntal Center, Eldridge

SSF Shriners Hospital for Crippled Children, San Francisco

STA St. Agnes' Medical Center, Fresno

STF .

St. Francis Memorial Hospital, San Francisco STL

St. Luke's Hospital, San Francisco

STM St. Mary

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

SUM Summit Medical Center, Oakland

SVH SierraVista Hospital, Sacramento

T Tripler Army Medical Center, Honolulu

UC UCSF Medical Center, San Francisco (includes Moffitt, Long, and Ambulatory Care Center)

UCD University of California Davis Medical Center, Sacramento

UCI University of California Irvine Medical Center, Orange

UCLA University of California Los Angeles Medical Center, Los Angeles

UCSD University of California San Diego Medical Center, San Diego

VA Veterans Affairs Medical Center, San Francisco

VAF Veterans Affairs Medical Center, Fresno VAL

Veterans Affairs Medical Center, Livermore VAM

Veterans Affairs Medical Center, Martinez VAP

Veterans Affairs Medical Center, Phoenix

VAPA Veterans Affairs Medical Center, Palo Alto

VASD Veterans Affairs Medical Center, San Diego

VCF Valley Children's Hospital, Fresno

VMC

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Valley Medical Center of Fresno, Fresno

Anatomy

100A. Systemic Regional & Devel Anat. (5) § E 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 crosssectional anatomy with special reference to the functional aspects of the structures examined.ANATOMY

100B. Systemic Regional and Devel Anat. (4) § 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 crosssectional anatomy with special reference to the functional aspects of the structures examined.ANATOMY

100C. Systemic Regional & Devel Anat. (5) § SS. Lecture 3 hours. Lab 6 hours. **116. Gross Anatomy.** (3) § Sp. Lecture 2 hours. Lab 3 hours.

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

117.01. Gross Anatomy & Embryology. (4) E Prerequisite: First-year 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. STOMATOL

117.02. Head & Neck Anatomy. (4) F. Prerequisite: First-year Dentistry 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 dentist are emphasized. STOMATOL

118. General Histology. (4.5) § F. Lecture 4 hours. Lab 2 hours. **R.H. Kramer**

The microscopic structure of tissues and organs of the body are studied with histophysiological considerations. STOMATOL

150.01. Gross & Regional Anatomy. (1.5/ week) § Su, F,W, Sp. Prerequisite: Program must be approved by department and adviser during quarter previous to enrollment. **H. Patterson** Individual/group dissection. Advanced review of gross anatomy. Intended as a block

elective course for advanced medical or graduate students. ANATOMY 156.01. Gross Anatomy & Embryology.

(2.5) F. Prerequisite: Dental Hygiene standing. Lecture 5 hours. Lab 4 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. STOMATOL

156.02. Head & Neck Anatomy. (3) F Prerequisite: Dental Hygiene standing. Lecture 2 hours. Lab 3 hours. S. Fisher

The gross anatomy of the head and neck is studied by lectures and demonstrations. Clinical applications and functions of importance to the dental hygienist are emphasized. STOMATOL

Workshops. (1) F,W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Lab 1 hour.

Sutherland, Ralston Workshops in anatomy and neuroanatomy, offered concurrent to the first-year course.

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. ANATOMY

170.02. Survey of Congenital Defects. (2) Su or Sp. Prerequisite: Gross anatomy and consent of instructor. Restriction: Open only to students enrolled in Physical Therapy program. Lecture 2 hours. Offered in summer or spring of even-numbered years. **McKenzie**

This course is designed to provide physical therapists with information on the more common human congenital defects. Environmental and genetic factors that produce malformations are considered and possible mechanisms discussed. ANATOMY

198. Supervised Study. (1-5) § Su, F,W, Sp. Staff

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

hours.

207. Neuroscience. (5) § SS3. Prerequisite: Basic Human Anatomy and Physiology or consent of instructor. Lecture 4 hours. Lab 3 hours.

Melnick

The structural organization and function of the physiology of the central nervous system with an emphasis on the physiology of striated nuscle and peripheral nerve relative to control mechanisms within the nervous system is presented. Emphasis is on clinical functional correlations of motor control. ANATOMY

215. Laboratory Rotation. (4) § F.W. Sp. Prerequisite: Consent of instructor. Lab 12 hours.

Werb and Staff

A laboratory rotation course to familiarize new departmental graduate students with various approaches in research.ANATOMY

225. Experimental Neuroanatomy. (4) § SS1, SS2. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 6 hours. Lecture and lab full time for 2 weeks. Offered in alternate years. Not offered 1996–97. M. LaVail, Ralston, J. LaVail, Basbaum

Lectures and laboratory projects on the principles and experimental methods of analyzing the neural organization of the central and peripheral nervous systems. Topics include neurocytology, axon transport, neural degeneration, immunocytochemistry, autoradiography, electron microscopy, quantitative data acquisition methods, and photomicrography. ANATOMY

233. Mammalian Chimeras & Mosaics. (2) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Offered in alternate years. Offered 1996-97. Pedersen

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

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

273. Biolog Scanning Electron Micros. (1) § W. Prerequisite: Consent of instructor. Lecture 1 hour. Lab 2 hours for three sessions. Enrollment limited.

J. Long and Staff Principles of scanning electron microscopy including tissue preparative techniques and applications. Laboratory sessions include

applications. Laboratory sessions include participation in preparing and viewing biological specimens. ANATOMY 298. Thesis. (0) § F.W. Sp. Prerequisite: Ad-

vancement to candidacy and permission of the graduate adviser.

For graduate students engaged in writing the thesis for the master's degree. ANATOMY

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

For graduate students engaged in writing the dissertation for the PhD degree. ANATOMY

300. Practicum in Teaching. (1-4) § FW, Sp. Prerequisite: Consent of instructor. ... **Staff**

Training in teaching in a course offered by the Department of Anatomy under the supervision of instructor in charge. Laboratory teaching, presentation of lecture material, experience in setting up and correcting of examinations, and participation in course are included.ANATOMY

400. Clin Anat through Cross-Section. (2) Su, Sp. Prerequisite: Open to housestaff members of UC hospitals. Lecture 1 hour. Lab 3 hours.

Patterson 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

140.01. Advanced Clinical Clerkship-UC, SFGH, MZ. (1.5 per week) F,W, Sp. Prerequisite: Anesthesia 110. Magorian

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

Course includes didactic lectures in sciences

basic to the specialty of anesthesia, as well as

on current medical literature in anesthesia.

450. Anesthesia Clinical Work. (1.5 per

of residency, and during either second or

week) Su, FW, Sp. Required during first year

Residents are responsible for anesthetic care

and management of patients in the operating

rooms and outpatient departments, under

operative and postoperative evaluation of

patients, oxygen therapy, and resuscitation are

460. Special Assignment. (1.5 per week)

Su, F,W, Sp. Elective for residents during ei-

Assignments include instruction in anesthesia

for children, problems related to open heart

surgery, cardiology, and opportunity for re-

470. Molecular Biology Techniques for

Department of Anesthesia only. Lab: 16 hours.

Anesthesia Research. (0) Sp. Restriction:

For staff, fellows, and research assistants in

Practical beginning laboratory course in

molecular biology techniques. Participants

will be instructed in current techniques em-

ploying plasmids, restriction endonucleases,

cation and manipulation of cloned DNA.

The Medical Anthropology program is a

200. Off-Campus Study. (0) § F,W, Sp.

ate program in Medical Anthropology.

division of the Department of Epidemiology

Prerequisite: Approval of the graduate adviser.

Open only to students enrolled in the gradu-

Full-time graduate study in the Medical An-

thropology program through the intercampus

exchange or consortium program. EPID &

205A-B. Intro to Sociocultural Aspects.

(3-4, 3-4) § F.W. Prerequisite: Intended pri-

marily for doctoral students in medical an-

thropology, and others at graduate standing

with consent of instructor. Lecture 3 hours,

plus 3 hours independent study for 4 units.

students in the UCSF PhD Program in Med-

Seminar in the history and theory of social

anthropology as applied to problems of health

and illness. Major concepts and problems will

lected research literature. EPID & BIOSTAT

206A-B. Intro to Biocultural Anthropol-

ogy. (3-4, 3-4) § Sp,W. Prerequisite: Consent

of instructor. Lecture 3 hours, plus 3 hours

first-year students in the intercampus Pro-

students in the UCSF PhD Program in

Survey of the biocultural areas of medical

biomedicine and human biology. EPID &

anthropology; anthropology in relationship to

211A-B-C. Research Training Seminar.

(4, 6-8, 6-8) § Sp, F, W. Prerequisite: Required

for and open only to second-year students in

Anthropology. Lecture 1 hour F, Sp. Seminar

1 hour F, Sp, 2 hours W. Field work 5-7 hours

the intercampus PhD Program in Medical

Medical Anthropology.

F, 12-18 hours W, Sp.

Beyene

BIOSTAT

independent study for 4 units. Open only to

gram in Medical Anthropology. Required for

be illustrated through critical review of se-

Required for and open only to first-year

ical Anthropology. Two-quarter course.

Barker, Justice and Staff

and microbiological methods for the amplifi-

search in related fields. ANESTHESIA

immediate supervision of the staff. Pre-

covered.ANESTHESIA

ther second or third year.

UC Gregory, Calahan

UC Yost, Forsayeth

ANESTHESIA

and Biostatistics.

Staff

BIOSTAT

Anthropology

case reviews, clinical discussions, and seminars

R D Miller

ANESTHESIA

third year.

R.D. Miller

Four-week clerkship offering: Two weeks experience at Moffitt/Long OR providing anesthesia for pediatric, neuro, cardiac, and vascular surgery, one week evenings at SFGH in emergency surgery for trauma, one week of postoperative pain management. ANES-THESIA

140.02. Off-Campus Clerkship. (1.5 per week) § Su, F,W, Sp. Prerequisite: Anesthesia 110.

Magorian

Off-campus clinical clerkships in approved hospitals by special arrangement and approval of the Director of Medical Student Education, Department of Anesthesia. ANESTHE-SIA

140.03A. Intensive Care Clerkship-

SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite:Anesthesia 110, Medicine 110, and Surgery 110.

Schlobohm, Luce, Horn, Schapera 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 been severely traumatized.ANESTHESIA

140.03B. Advanced Clerkship in Intensive Care–UC. (1.5 per week) Su, F,W, Sp. Prerequisite:Anesthesia 110, Medicine 110, Surgery 110 and consent of instructor. Cohen

The student will participate in the care of critically ill adults with a variety of medical and surgical conditions. The clerkship will integrate an understanding of respiratory, cardiovascular, cerebral and renal pathophysiology with diagnostic and therapeutic techniques required to care for patients with multisystem failure. ANESTHESIA

140.06. Pain Management. (1.5 per week) Su, F.W. Sp. Prerequisite: Anesthesia 110 or consent of instructor. Restriction: one student per block.

Magorian, Allen

This course in pain management allows students to participate in the assessment and treatment of patients with chronic pain. Lectures and rounds with multidisciplinary pain team comprise didactic portion, while inpatient/outpatient evaluations with faculty provide the clinical portion. ANESTHESIA

140.07. Advanced Anesthesia. (1.5 per week) FW, Sp. Seminar 3 hours. Conference 1 hour. Patient contact 35 hours. Rosen, Pogrel

This is a 12-week advanced elective in general anesthesia for participants in Oral & Maxillofacial Surgery who are in the medical school phase of their integrated training program. It fulfills partial requirements for accreditation in Oral & Maxillofacial Surgery. ANESTHESIA

140.22. Pain Management in Primary Care. (1.5 per week) F. Prerequisite: Must be fourth year. Restriction: Minimum students 5, maximum 10. Lecture 5 hours. Seminar 5 hours. Clinic 5 hours. Project 5 hours. Patient contact 5 hours. Library research 15 hours. Allen, Magorian

Students will review topics related to pain management and its role in primary care. Four weeks of lecture/seminar (6 hrs./wk.), one day/wk. clinic. Students are expected to read assigned articles and give two case-based presentations with handouts.ANESTHESIA

150.01. Research in Anesthesia. (1.5 per week) Su, F,W, Sp. Prerequisite: Anesthesia 110. Consent of the Dean and Department of Anesthesia. **Staff**

Students conduct research projects under guidance of faculty member. Projects must be approved by instructor involved in supervising student. Students may initiate or become involved in established research programs under faculty guidance. ANESTHESIA

Sutherland and Staff

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

103. Nervous System: Form & Funct. (4-6) § Sp. Prerequisite: Consent of instructor required for graduate students. Lecture 5 hours. Lab 3 hours.

H. Ralston, Stryker and Staff

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

115. Histology. (2) §W. Lecture 2 hours. Martin, Basbaum

A study of the microscopic structures of the tissues and organs of the human body by means of lectures, demonstrations, and microscope slides. Functional aspects of the structures are stressed. Intended for students in the School of Pharmacy. ANATOMY

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

Staff

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

201. Radiation Effects on Genes & Chromosomes. (2) § W, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. S. Wolff

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

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

S. Wolff

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

Anesthesia

110. Anesthesia Core Clerkship-C, MZ. (1.5/week) Su, FW, Sp. Prerequisite: Third-year standing.

Magorian

The course consists of instruction and experience in operating room anesthesia including preoperative and postoperative evaluation and care. Cardiopulmonary resuscitation and care of the unconscious patient are stressed. ANESTHESIA

111. Advanced Cardiac Life Support (1)

Sp. Prerequisite: Basic cardiac life support (BLS or CPR) and Anesthesia 110. Restriction: 4th year medical students, UCSF. Lecture 8 hours. Workshop 12 hours.

Carlisle, Cassorla

American Heart Association certified training in advanced cardiac life support. Includes recertification in BLS if needed, airway management, invasive monitoring and therapeutic techniques, arrhythmia detection and management, cardiovascular pharmacology, acid-base balance, neonatal and pediatric resuscitation, and defibrillation. ANESTHESIA **160.01. Basic Life Support.** (0.5) F,W, Sp. Restriction: 1st-year medical students only. Lecture 1 hour. Lab 3 hours.

Cohen, Cahalan, Strong

Course trains students in professional rescuer life support skills: cardiac compression and ventilation, management of airway obstruction, and assessment of need to initiate or terminate CPR. Successful completion of this course results in AHA or ARC certification in CPR.ANESTHESIA

178. General Anesthesiology. (6) Sp. Prerequisite: Interns and residents. Clinic. Miller and Staff

Course covers the systemic effects of the various muscle relaxants, sedatives, and stimulants and the administration of general anesthetic agents. ANESTHESIA

199. Laboratory Project. (1-5) Su, F,W, Sp. **Eger**

A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department.ANES-THESIA tures, readings and field assignments. EPID & BIOSTAT

Fundamentals of anthropological research

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

Staff

Becker

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

215. Life History Methods. (2-3) § F,W, Sp. Seminar 2-3 hours. **Ablon**

Review of theoretical and methodological literature on anthropological life histories and the uses of life history materials. Classic life histories and newer works will be read and examined for the methodologies and analyses utilized. EPID & BIOSTAT

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 & BIÓSTAT

217. Statistics. (2) § F,W, Sp. Lecture 2 hours. Lab 3 hours.

Mitteness

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

218. Professional Skills. (3-4) § Sp. 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 HMD program packages and interpretation of computer output. EPID & BIOSTAT

220. Departmental Seminar. (0) § F,W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour.

Mitteness

Students, staff, or guest lecturers present selected topics based on their current work. **EPID & BIOSTAT**

221A-B. History & Theory of Anthropology. (3-3) § F.W. Prerequisite: Consent of instructor. Generally limited to students in anthropology. Lecture 3 hours. Staff

A review of the history and development of anthropology and its major theoretical approaches. Lectures, discussion, and readings focus on major issues, trends, personalities, and present concerns in the field. EPID & BIOSTAT

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

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

226. Stigmatized Health Conditions. (2-3) § F,W, or Sp. Lecture 2-3 hours. Ablon

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

227. Community Resources for Health & Mental Health. (3-4) § Sp. Seminar 2-3 hours.Variable field observations. Ablon

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 associations, and alternative healing modalities will be analyzed for their functions as health and mental health resources. EPID & BIOSTAT

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

Exploration of the relationship between culturally conditioned ways of perceiving, think234. 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

Staff

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

235. Cross-Cultural Aspects of Child-

hood. (3) § F. Prerequisite: Consent of instructor. Open to students in medicine, nursing and graduate departments. Lecture 2 hours, plus research paper. Mitteness, Barker

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 & BIOSTAT

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

Ablon

Anthropological approaches to family study. Structure and dynamics of varying family systems examined, emphasizing changing family forms and ways family life style and values contribute to modes of coping with stress, illness, and crises. EPID & BIOSTAT

245. Development in Late Adulthood. (2-3) § F Lecture 2 hours. Lab 3 hours. Kayser-Jones

Course covers developmental theory and research in aging, Emphasis is on anthropological, sociological, and psychological studies. Current issues in aging with emphasis on implications for health care are discussed. EPID & BIOSTAT

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

Beyene 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 & BIOSTAT

247. Contemporary American Society. (3) § F.W or Sp. Prerequisite: Consent of

instructor. Lecture 2 hours, plus 3 hours independent study. Ablon

A review of anthropologically oriented research on basic American values, social organization, and ethnicity. Emphasis is on socioeconomic diversity and changing institutions, values, and life styles. EPID & BIOSTAT

248. Group Study. (1-5) § F.W. Sp. Prerequisite: Consent of instructor.

Staff Groups of two or more collaborate on special problems in anthropology under the direction of faculty. Students may select areas related to their long-term interest and future research program. EPID & BIOSTAT

249. Directed Reading. (1-5) § F.W. Sp. Prerequisite: Consent of instructor. Staff

Independent study. EPID & BIOSTAT

250. Research. (1-8) § F.W. Sp. Prerequisite: Consent of instructor. Staff

EPID & BIOSTAT

251. Social Gerontology. (2-4) § W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 3 or 6 hours independent study for 3 or 4 units. Staff

An overview of the theoretical, empirical, and applied literature on the social processes of aging in this country. Special emphasis on health-related problems and the delivery of services to the elderly. EPID & BIOSTAT

252. Culture & Health Policy. (3) § F.W,

261. Health and Human Survival. (2-4) § W. Seminar 2 hours. Field work 0-6 hours. Kiefer

Social and economic causes of ill health in international perspective. Focus on community-based efforts to provide primary health care in low-income and rural areas. Student involvement in course planning and leadership. Participation of health care workers from developing countries. EPID & BIOSTAT

262. Poverty and Health in the U.S. (2-4) § Sp. Seminar 2 hours. Conference 0-1 hour. Field work 0-3 hours. Kiefer

Social and economic basis of ill health among underserved populations in the United States. Focus on cooperation between health professionals and low-income clients to improve health conditions and care access in underserved areas. Student involvement in course planning and leadership. Participation of low-

income clients in seminars. EPID & BIOSTAT

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

Independent study, EPID & BIOSTAT

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

For graduate students engaged in writing the dissertation for the PhD degree. EPID & BIOSTAT

Biochemistry

100. Human Metabolism. (5) W. Prerequisite: Interdepartmental Studies 100: Cell and Tissue Biology or consent of instructor. Lecture 4 hours. Conference 2 hours. Colby, Musci

Lectures and conferences in the metabolism of carbohydrates, lipids, amino acids, and nucleotides, with emphasis on physiologic regulation. Primarily for medical students. BIOCHEM

110A-B. Cellular Structure & Function. (4-4) F.W. Lecture 4 hours.

Colby

Lectures in biochemistry include aspects of cell physiology and cellular ultrastructure, with emphasis in the area of connective and mineralizing tissues. Fundamental knowledge is presented in the context of its applicability to clinical health sciences. Primarily for dental students. BIOCHEM

112A-B. Cellular Structure & Function: Human Metabolism. (4-4) § F,W. Lecture 4 hours. Colby

Lectures in biochemistry, including aspects of cell and molecular biology, cell physiology, and human metabolism. BIOCHEM

150.01. Research in Biochemistry. (1.5 per week) F, W, Sp. Prerequisite: Consent of instructor. Staff

Research in biochemistry. BIOCHEM

170.01. Molecular Biology of Cancer. (2) W. Seminar 2 hours. Project 2 hours. Library research 1 hour.

Colby Seminar on molecular and cell biological approaches to disease processes. BIOCHEM

170.02. Medical Scholars Program Workshops. (1) F.W. Prerequisite: First-year standing. Seminar 2 hours.

Colby

Workshops in cell and tissue biology (F) and human metabolism (W) will present challenging material in the form of weekly problem sets which students will solve in groups. The material presented augments required coursework with basic science and clinical information. BIOCHEM

198. Supervised Study. (1-5) § Su, F, W, Sp. Colby

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

200C. Chromosome Structure & Function. (1.5) § Sp. Prerequisite: Calculus, physical chemistry, organic chemistry, and an advanced course in biology are recommended. Lecture 3 hours for one-half quarter. Sedat

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

200E. Enzymology. (3) § F. Prerequisite: Calculus, physical chemistry, organic chemistry, introductory biochemistry, and an advanced course in biology, or consent of instructor. Lecture 3 hours. Offered in alternate years. Offered 1996-97.

Santi, Kenyon

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

201A. Biological Regulatory Mecha-

nisms. (4) § W. Prerequisite: Calculus, physical chemistry, organic chemistry, introductory biochemistry, an advanced course in biology, and Genetics 200A. Lecture 3 hours. Seminar 1 hour.

Johnson and Staff

The discovery of principles forming the foundation of molecular biology and recent advances in rapidly developing areas of the field. Topics covered are: RNA transcription, protein translation, DNA replication, control mechanisms, and genome structure and organization. BIOCHEM

210. Special Topics. (0-5) § F,W, Sp. Prerequisite: Consent of instructor. Lecture 1-5 hours Staff

Discussion of selected areas in biochemistry. biophysics, and biomathematics. BIOCHEM

215. Laboratory Rotation. (3) § F,W, Sp. Prerequisite: Consent of instructor. Lab 9

hours. C. Guthrie

A laboratory rotation course to familiarize new departmental graduate students with various approaches to biochemical and biophysical research. BIOCHEM

220. Selected Topics. (0) § F,W, Sp. Lecture 1 hour.

Alberts

Lectures and discussion on topics of current interest in biochemistry and biophysics. BIOCHEM

221. Selected Topics. (0-1) § F,W, Sp. Lecture 1 hour. Staff

Presentations of selected topics in biochemistry by graduate students in the Department of **Biochemistry BIOCHEM**

242. Protein Crystallography. (3) §W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Offered in alternate years. Offered 1996-97. Stroud

Principles of X-ray crystallography applicable to protein structure analysis will be presented in a course oriented toward research level understanding of the field. Course will involve group participation and some experimental work. BIOCHEM

246. Cell & Developmental Biology. (3) § Sp. Prerequisite: Calculus, physical chemistry, organic chemistry, and an advanced course in biology are recommended. Lecture 3 hours. C. Kenyon, G. Martin Modern aspects of cell biology and develop-

ment with emphasis on structure-function relationships and multicellular organization. BIOCHEM

250. Research. (1-8) § F,W, Sp. Staff

BIOCHEM

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

200. Off-Campus Study. (0) § F,W, Sp. Hasegawa

Full-time study in bioengineering at another location through the UCSF/UCB Graduate Group in Bioengineering.

220. Bioengineering Seminar. (1) § F.

Presentation and discussion of student and

221. Orthopaedic Mechanics & Materi-

This course is intended to introduce the

student to the mechanics of several joints in

the human body, to acquaint the student with

used in orthopaedics, and to discuss these uses

common biomaterials (and their properties)

with respect to joint mechanics and joint

230A. Physics of Medical X-ray Imag-

ing. (3) § F Prerequisite: Baccalaureate de-

gree in engineering or a physical science,

differential equations, Fourier analysis, or

Basic interactions of photons and particles

ics; radiation quantity and quality, contrast,

spatial resolution, noise, and image percep-

230B. Physics of Medical X-ray Imag-

X-ray production, x-ray scatter and scatter

linear tomography, computed tomography,

production, video imaging, image intensifiers,

xeroradiography, digital subtraction angiogra-

phy, photostimulatable phosphor technology,

dual-energy imaging techniques, bone-min-

eral densitometry, and quantitation of vascu-

230C. Physics of Medical Imaging. (3.5)

engineering or a physical science, differential

§ Sp. Prerequisite: Baccalaureate degree in

equations, Fourier analysis, or consent of

Digitization and sampling requirements of

medical images; display and perception of

image compression techniques; picture

electronic images; reversible and irreversible

archiving and communication systems; image

registration, segmentation; 3-dimensional

240. Principles of Nuclear Magnetic

Baccalaureate degree in engineering or a

image rendering, medical imaging databases.

Resonance Imaging. (3) § Sp. Prerequisite:

physical science; knowledge of Fourier analy-

Fundamentals of nuclear magnetic resonance

and magnetic resonance imaging; parameter-

ization of image acquisition, image optimiza-

tion, and display. Emphasis on Fourier imag-

249. Group Studies. (1-8) § F,W, Sp. Pre-

Advanced study in various subjects through

seminars on topics to be selected each year,

informal group studies of special problems,

problems, or group research on complete

problems for analysis and experimentation.

250. Research. (1-8) § F.W. Sp. Prerequisite:

280. Clin Aspects of Bioengineering. (2)

§ F. Prerequisite: Consent of instructor. Lec-

Important clinical issues relevant to bioengi-

neering will be reviewed to help students

appreciate the potentials and pitfalls of con-

temporary technologies. Students will con-

tact scientists, physicians, nurses, technicians,

and patients to identify important medical

issues that require advanced bioengineering

ture 1.5 hours. Lab 1.5 hours. Offered in

alternate years. Offered 1996-97.

group participation in comprehensive design

ing methods and instrumentation.

requisite: Graduate standing.

Graduate standing.

sis, electromagnetic waves and radiation; or

permission of instructor. Lecture 3 hours.

Hylton, Carlson, Crooks, Ortendahl,

į,

1997

Hasegawa, Huang, Lou, Wong

in Physics of Medical X-ray Imaging or

equivalent, or consent of instructor

Hasegawa, Cann, Gould

lar flow

instructor.

Kaufman

Staff

Staff

ing. (3) SW. Prerequisite: First quarter course

with matter; detectors and detector electron-

consent of instructor. Lecture 3 hours.

Hasegawa, Cann, Gould

tion; radiation protection.

Seminar 2 hours.

Skinner

displacement.

Baumrind, Bhatnagar

faculty research in progress.

als. (2) SW. Lecture 2 hours.

Bioengineering

and individ havior and personality development. Application of cultural and personality findings in medical and nursing settings. EPID & BIOSTAT

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

Staff

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

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

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

Sp. Sennar 3 hours. Justice

Combining the perspectives of anthropology and health policy, the course will examine the effect of culturally linked beliefs and values on utilization of health services and the impact of health policies on medical care in the United States and other countries. EPID & BIOSTAT

253. Late Life Family. (3) § F.W. Sp. Prerequisite: Consent of instructor. Seminar 3 hours.

C. Johnson, L. Troll

A review of research on the late-life family with a critical analysis of the conceptual and methodological issues guiding research. Interpretations of the care-giving and social support literature will be associated with social, cultural, and psychological theories on the family EPID & BIOSTAT

260. Epidemiology & Med Anthro. (2-4) § Sp. Prerequisite: Training in epidemiology and consent of instructor. Lecture 2 hours plus 3 or 6 hours independent study for 3 or 4 units.

Lane and Staff

Individual or small group directed reading and discussion of epidemiological and medical ecological perspectives, methods, and findings relevant to the field of medical anthropology. EPID & BIOSTAT

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

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

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

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

Reading and conferences for properly qualified students under the direction of a member of the staff. BIOCHEM

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

For graduate students engaged in writing the dissertation for the PhD degree. BIOCHEM

Bioengineering

The Graduate Group in Bioengineering is an interdisciplinary group offering a PhD in Bioengineering on the San Francisco and Berkeley campuses. Courses integrating biology and engineering may also be found under the course listings for Biomathematics, Biostatistics, Neuroscience, and Pharmaceutical Chemistry.

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

Staff

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

support.

Majumdar

297. Special Study. (1-8) § F.W. Sp. Staff

Reading and conferences for properly qualified students under the direction of a member of the staff

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

Staff

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

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

For graduate students engaged in writing the dissertation for the PhD degree.

Biomathematics

180. Algebra & Calculus for Biomed. (3) § Su. Prerequisite: Consent of instructor. Licko

Mathematical concepts and processes for planning, representation, and analysis in biomedical research. Review of algebraic operations, equations, matrices, and graphs. Introduction to functions, sequences, convergence, derivatives, integrals, and infinite series. Applications to growth, binding, enzyme kinetics, tracer studies, population dynamics.

190. Biolog Modeling through Diff Eqn. (3) § F. Prerequisite: Biomathematics 180 or equivalent. Lecture 2 hours. Lab 3 hours. Licko

Development of intuitive notions regarding differential equations. Quantitative and qualitative aspects of differential equations are explored by analog, digital, and analytic techniques. Applications to selected problems in compartmental analysis, enzyme and drug kinetics, and metabolic and biological control dynamics.

214. Endocrine Dynamics. (3) § W. Prerequisite: Biomathematics 193A-B-C or equivalents, or consent of instructor. Licko

Review of relevant parts of compartmental and tracer analysis and control theory. Analysis of dynamics of secretory process, distribution, binding and metabolism of hormones, and hormonal control. Differential equations and both analog and digital computers are utilized throughout the course.

Biomedical Sciences

198. Supervised Study. (1-5) § F,W, Sp. Prerequisite: None. Staff

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

210. Tissue Organization and Morphogenesis. (3) § Sp. Lecture 1.5 hours. Conference 1.5 hours.

Derynck, Ingraham, Werb

This course will cover basic concepts and elements of tissue growth and differentiation and selected examples of tissue organization and organogenesis. Emphasis is on vertebrate systems and development.

215. Laboratory Rotation. (3) § FW, Sp. Lab 9 hours. Project 10 hours. Prerequisite: None.

Staff

Research experience in the laboratory of BMS faculty members.

225. Tissue and Organ Biology. (1.5-5) F, W. Prerequisite: Admission to UCSF graduate program or permission of instructor. Lecture 3 hours, Lab 2 hours, Seminar 1.5 hours McKerrow, Parslow, Weiner An integrative graduate-level course on human cell and molecular biology. Focus on tissue biology and organ system function. Lab includes introduction to human histology.

Biopharmaceutical Sciences

114. Biopharmaceutics & Biotechnology. (3) F. Prerequisite: Concurrent enrollment in Chemistry 115. Lecture 3 hours. Cullander, Hoener

A study of the physical, chemical, and biological factors which interact and dominate the design of dosage forms as drug delivery systems. BIOPHARM SC

115. Biopharmaceutics & Biotechnology. (2) W. Prerequisite: Pharmacy 114 and concurrent enrollment in Chemistry 116. Lecture 1.5 hours. Conference 1-2 hour. Siegel, Hunt, Lameh Continuation of Pharmacy 114. **BIOPHARM SC**

116. Biopharmaceutics & Biotechnology. (3) Sp. Prerequisite: Pharmacy 115. Lecture 3 hours. Szoka

150. History of Pharmacy. (2-3) F. Lecture 2 hours. Project optional. Sadée

The historical development of Pharmacy, its relationship to other health professions, and the personalities who significantly contributed to the advancement of health care. **BIOPHARM SC**

152. Special Topics in Biopharmaceutical Sciences. (2) Sp. Prerequisite: Pharmacy 116 or concurrent enrollment. Lecture 2 hours.

An intermediate course offering an opportunity to explore, in greater depth, special drug delivery systems and some fundamental relationships involved in their design and action. **BIOPHARM SC**

154. Biopharmaceutical Sciences Percutaneous Absorption. (2) W. Prerequisite: First- or second-year standing. Lecture 2

hours. Guy, Potts

Szoka

An elective course which presents material dealing with the penetration of drugs and other chemicals across the skin. **BIOPHARM SC**

164. Veterinary Products. (3) Sp. Prerequisites: Microbiology 120, 127, Pathology 135, Pharmacology 136, and Pharmacy 116. Lecture 3 hours.

Staff

Course is designed to familiarize the student with common ailments of domestic animals and livestock, products used for the prevention and treatment of such diseases, the interrelationship of pharmacist, veterinarian, and animal owner, and legal limitations on veterinary product dispensing, BIOPHARM SC

168. Seminar in Clinical Pharmacoki-

netics-UC. (2) Su, F,W, Sp. Prerequisite: Fourth-year standing or consent of instructor. Conference 3 hours. Enrollment limited. Upton, Winter, Benet

Case study approach to the clinical application of pharmacokinetic principles in drug therapy. BIOPHARM SC

168.02. Clinical Pharmacokinetics-UCI. (2) F,W, Sp. Prerequisite: Fourth-year standing or consent of instructor. Reports and seminar 3 hours. Enrollment limited. Shimomura

Discussion and review of the literature on the clinical application of pharmacokinetic principles in drug therapy. BIOPHARM SC

170. Biopharmaceutical Sciences Career Planning. (1) Sp. Prerequisite: Completion of Clinical Pharmacy 110 or consent of instructor.

Murch

Overview of pharmacy career paths in research, clinical and hospital pharmacy, and community pharmacy in the public and private sectors. Instruction in career planning, self-assessment, and research alternatives. **BIOPHARM SC**

170.07. Communication Skills. (1.5) Sp. Prerequisite: First-year standing. Lab 2 hours. Seminar 1 hour.

Lem Aspects of communication focusing on skills pertinent to contemporary pharmacy settings. Class time is spent discussing principles of communication and then practicing specific techniques in simulated practice situations. **BIOPHARM SC**

198. Supervised Study in Biopharmaceutical Sciences. (1-5) F.W. Sp. Staff

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

199. Laboratory Project in Biopharmaceutical Sciences, (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. BIOPHARM SC

245A, Basic Principles of Pharmaceuti-

201. Cellular Biophysics. (3) § W. Prerequisite: Biochemistry 200A. Lecture 3 hours. Cooke, Papahadjopoulos

Topics covered: membrane structure and dynamics; transport and permeability; cellular motion and muscle contraction; cell energetics; DNA replication and information transfer; cell cycles

202. Biophysical Methods. (3) § W. Prerequisite: Required of all students. Lecture 3 hours. Agard

This course is a comprehensive survey of the experimental methods of biophysics and the principles on which they are based, including spectroscopy, UV/visible absorption/emission spectroscopy, NMR, IR/Raman, hydrodynamics and ultracentrifugation, scattering, separation technology, fast reactions, imaging and mass spectrometry.

203. Mending Human Genes. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours.

Cleaver

Introduction to eukaryotic DNA repair mechanisms. Emphasis is on cells damaged by UV light, ionizing radiation, and chemical carcinogens. The genes involved in regulating repair in various inherited diseases involving mutagenesis, carcinogenesis, and aging will be described.

204. Macromolecular Structure & Interactions. (3) § E Lecture 3 hours. Stroud

This course covers modern methods that have defined the molecular basis for macromolecular interactions and their function in biology. Emphasis will focus on the physical principles of macromolecular structure and interactions, and will describe modern methods.

205. Mammalian Genomic Rearrangement. (1.5) § Sp. Lecture 1.5 hours. Morgan, Murnane

This course will focus on the mechanisms of recombination, specific DNA rearrangements and how they are manifested cytogenetically, factors influencing the rate of DNA rearrangements, and the consequences of DNA rearrangements in mammalian cells.

209. Cancer Genetics. (3) § Sp. Lecture 3

hours. Morgan, Gray, Waldman

Beginning with an overview of cancer, the course will focus on genetic changes leading to cancer progression, the biological processes that are disrupted by these changes, and methods used to identify the genes involved.

210. Radiation Biophysics. (3) § F. Prerequisite: Consent of instructor. Lecture 3 hours. Fike, Morgan

Interaction of electromagnetic radiation with matter; radiation chemistry; molecular lesions induced by radiation; damage and repair in mammalian cells; interaction of radiation and other agents in mammalian cells and tissue

212. Advanced Topics in Radiation Biophysics. (3) § Sp. Prerequisite: Biophysics 210 or consent of instructor. Lecture 3 hours. Deen

Current topics in radiation physics, radiation chemistry, and radiation biology. Lecturers will be mainly scientists from the Bay Area with ongoing research programs. Lecturers will assume student familiarity with information covered in Biophysics 210.

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

Deen

A laboratory rotation course to acquaint firstyear Biophysics students with the various approaches to biophysical research. Students will rotate through 3-4 labs.

220. Biophysics Seminar. (1) § F,W, Sp. Lecture 1.5 hours weekly. Mendelson

Guest lecturers and reports of research by faculty and students of the Graduate Group in Biophysics.

250. Research. (1-8) § F,W, Sp.

187. Intro Stat Theory & Practice. (5) § W. Prerequisite: Previous course in introductory statistics. Lecture 4 hours. Lab 2 hours. Paul

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 chisquare tests. A preparation for more advanced work. EPID & BIOSTAT

191. Clinical Trials & Life Tables. (3) § Sp. Prerequisite: Biostatistics 183 or equivalent or permission of the instructor. Lecture 3 hours. Offered in alternate years: Offered 1996-97. Hilton

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

192. Introduction to Linear Models. (5) § Sp. Prerequisite: Biostatistics 183 or 185 A/B or 187 or equivalent or permission of instructor. Lecture 3 hours. Lab 2 hours. Paul

This course begins with bivariate correlation and simple linear regression and then moves on to a presentation of multiple regression techniques and the analysis of variance under the general model. The focus is on the choice of technique and interpretation of results rather than on mathematical development of the methods. EPID & BIOSTAT

193. Categorical Data Analysis. (3) § W. Prerequisite: Biostatistics 183, 185 A and B, Biostatistics 187 and/or 192 or the equivalent. Lecture 3 hours. Hilton

This introductory course in categorical data analysis is designed for students who have studied regression modeling of continuous data. Emphasis of the course is on modeling categorical responses, especially count data. Standard descriptive methods for analysis of contingency tables will also be discussed. EPID & BIOSTAT

197. Selected Topics. (2 or 3) § F,W, Sp. Lecture 2 or 3 hours. Lab 0 or 3 hours. Staff

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

198. Supervised Study. (1-5) § F,W,Sp. Staff

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

205. Multi Methods for Discrete Data.

(3) § Sp. Prerequisite: Biostatistics 185A-B or Biostatistics 187 or permission of instructor; familiarity with chi-square tests and linear regression. Lecture 2 hours. Lab 3 hours. Offered in alternate years: Not offered 1996-97.

Neuhaus

Course covers multivariate methods for analysis of discrete data. The major topics will be logistic regression and log-linear analysis. Other topics such as models for ordinal data will be covered given sufficient time and interest. Emphasis will be on appropriate use of methods and interpretation of results. EPID & BIOSTAT

213. Multivariate Methods. (4) § W. Prerequisite: Biostatistics 210A and 210B or equivalent. Lecture 3 hours. Lab 3 hours. Offered in alternate years: Not offered 1996-

Segal

This course commences with an introduction to both matrix algebra and multivariate distributions. We proceed to classical multivariate methods, especially principal components and discriminant analysis. Additional topics include factor analysis, clustering and multidimensional scaling as well as some contemporary approaches. Throughout, illustrative applications will be presented. (Note that

Cell Biology

210. Selected Topics in Cell Biology. (2) § F,W, Sp. Prerequisite: Cell Biology 245. Lecture 2 hours.

Staff Selected 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

212. Selected Readings in Cell Biology. (2) § Sp. Prerequisite: Previous or concurrent enrollment in Cell Biology 245, and consent of instructor. Julius

Tutorials with a maximum of eight students per class. Each week all students will read one paper and be individually responsible for another paper or group of papers. The papers will address current issues in cell biology. **CELL BIOLOGY**

215. Laboratory Rotation. (3) § F,W, Sp.

A laboratory rotation course to familiarize

new departmental graduate students with

various approaches to cell biology research.

245. Cell and Developmental Biology. (3)

course in biology are highly desirable. Lecture

Modern aspects of the molecular basis of cell

function are examined with emphasis on how

cells move, secrete, divide, and communicate

247. Specialized Topics in Cell Biology.

(3) § F,W, Sp. Prerequisite: Cell Biology 245.

Topics in Cell Biology will be discussed: a

seminar format, with student presentation of

papers. The goals are an in-depth study of one

area of cell biology, and critical reading of the

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

299. Dissertation. (0) § F,W, Sp. Prerequisite:

Advancement to candidacy and permission of

For graduate students engaged in writing the

115. Physical Chemistry. (5) E Prerequisite:

Elementary physical chemistry with emphasis

116. Physical Chemistry. (2) W. Prerequi-

hours. Conference and demonstration 1.5

on chemical kinetics. PHARM CHEM

site: Chemistry 115 or equivalent. Lecture 1.5

Elementary physical chemistry with emphasis

170. Group Studies Course. (1-4) F,W, Sp.

Group studies in selected topics in chemistry.

Library research and directed reading under

supervision of a member of the faculty with

the approval of the chairperson of the depart-

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

Prerequisite: Consent of instructor. Lecture

on thermodynamics. PHARM CHEM

Chemistry 5 or equivalent laboratory course

in quantitative analysis and differential and

integral calculus. Lecture 4 hours. Confer-

ence and demonstration 3 hours.

dissertation for the PhD degree. CELL BI-

with each other. BIOCHEM

scientific literature. BIOCHEM

Consent of instructor.

the graduate adviser.

Seminar 3 hours.

Staff

Staff

Staff

OLOGY

Chemistry

Shetlar, Shafer

hours.

James

1-4 hours.

PHARM CHEM

ment. PHARM CHEM

Staff

Staff

BIOCHEM

§ Sp. Prerequisite: Calculus, physical chemis-

try, organic chemistry, and an advanced

Prerequisite: Consent of instructor. Lab 9

hours.

Staff

BIOCHEM

3 hours.

Morgan

Continuation of Pharmacy 115. **BIOPHARM SC**

117. Biostatistics. (2) Sp. Lecture 2 hours. Siegel, Verotta

Introductory biostatistics course for Biopharmaceutical science students. BIOPHARM

127. Biopharmaceutics & Dispensing.

(4) E Prerequisite: Pharmacy 116 and Clinical Pharmacy 112, Lecture 2 hours, Lab 6 hours, Day, Benet

Continuation of Pharmacy 116 with the addition of training in the professional and dispensing aspects of pharmacy. **BIOPHARM SC**

128. Pharmacokinetics. (3.5) W. Prerequisite: Pharmacy 116. Lecture 3 hours. Conference 1-2 hours.

Hoener, Giacomini

Fundamentals of pharmacokinetics. BIOPHARM SC

129. Pharmacokinetics. (3.5) Sp. Prerequisite: Pharmacy 128. Lecture 3 hours. Conference 1-2 hours.

Øie, Upton

Pharmacokinetic basis of variability in the therapeutic, pharmacologic, and toxicologic effects of drugs. BIOPHARM SC

cal Sciences. (3) § E Prerequisite: Consent of instructor. Lecture 3 hours,

Giacomini, Szoka, Siegel, Verotta, Sambol

This course is focused on fundamental mechanisms of membrane transport, pharmacokinetics, modeling, and quantitation of these processes. BIOPHARM SC

245B. Basic Principles of Pharmaceutical Sciences. (2) W. Prerequisite: Consent of instructor. Lecture 2 hours.

Sadée, Sheiner, Szoka, Verotta, Kroetz This course is focused on basic mechanisms of pharmacology, toxicology, and drug metabolism barriers to drug delivery. Emphasis is placed on modeling and quantitative aspects of these processes, BIOPHARM SC

Biophysics

The Graduate Group in Biophysics is an interdisciplinary group offering a PhD in Biophysics. For details, refer to the Graduate Studies bulletin.

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

Full-time graduate study in the biophysics

Staff

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

Staff

Reading and conferences for properly qualified students under the direction of a member of the staff.

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

Staff

For graduate students engaged in writing the dissertation for the PhD degree.

See also: Biochemistry 200A, Biostatistics 183, Chemistry 260.

Biostatistics

The courses listed below are offered through the Department of Epidemiology and Biostatistics.

183. Intro to Statistical Methods. (4) § Su, F. Lecture 4 hours.

Glantz, Hoffman

Course stresses application of methods, including analysis of variance, linear regression, chi-square, non-parametric, and power analyses. Intended for those who may need to use statistics in their work. EPID & BIOSTAT

repeated measures/MANOVA is covered in Biostatistics 216). EPID & BIOSTAT

216. Analysis of Repeated Measures. (4) § Sp. Prerequisite: Biostatistics 192 or 210A and 210B or equivalent. Lecture 3 hours. Lab 3 hours.

Neuhaus, Segal

This course will cover statistical methods for analyzing repeated measurement data. Methods to be presented include the classical ANOVA and MANOVA approaches, likelihood approaches using structured covariance methods and semi-parametric approaches. The course will focus on methods for unbalanced data. EPID & BIOSTAT

225. Selected Topics. (2-4) § F,W, Sp. Lecture 2-4 hours, Lab 0-3 hours, Staff

Course will cover topics such as statistical methods for failure time data, time series, or repeated measures. EPID & BIOSTAT

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

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

Staff

Reading and conferences for qualified students under the direction of a member of the staff. EPID & BIOSTAT

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

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

203. Synthetic Organic Chemistry. (3) § Sp. Prerequisite: Undergraduate Organic Chemistry. Lecture 3 hours.

Scanlan

The course will cover modern methods in synthetic organic chemistry. Lecture material will focus on new reagents, synthetic strategies, and functional group conversions. Applications of organic synthesis to biological research problems will also be highlighted. PHARM CHEM

241. Molecular Thermodynamics. (5) § F. Lecture 5 hours.

Dill

This is a course on molecular thermodynamics and statistical mechanics. It covers the concepts of entropy, enthalpy, heat capacity, free energy, ligand binding, solvation, the properties of water, the hydrophobic effect, solution electrostatics, adsorption, and physical and chemical kinetics. PHARM CHEM

242. Bioorganic Chemistry. (5) § W. Lecture 5 hours. Scanlan

Fundamentals of physical organic chemistry and unique aspects of enzyme catalyzed reactions with a description of mechanisms of . enzyme inhibition. PHARM CHEM

243. Molecular Biochemistry. (5) § Sp. Lecture 5 hours.

Craik Basics of molecular biochemistry with a particular emphasis on understanding and manipulating molecular mechanisms of complex biochemical phenomena. Lectures will address macromolecular structure, function, mechanisms, synthesis and metabolism applications. PHARM CHEM

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

Quantum mechanics and applications to molecular problems. PHARM CHEM

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

Shafer

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

264. Advanced Statistical Mechanics & Molecular Mechanics. (2) §. Sp. Prerequisite: Chemistry 260 or consent of instructor. Lecture 2 hours. Dill

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

Clinical Pharmacy

110. Orientation. (2) F. 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

111. Nonprescription Products. (2) W. Prerequisite: Successful completion of all required fall Pharmacy I courses or consent of instructor. Lecture 1 hour. Conference 2 hours.

Lem, Yee, and Staff

An introduction to selected topics on nonprescription drugs and products. Discussions on their indications and contraindications. Emphasis on oral communication skills with ambulatory patients. CL PHARM.

112. Nonprescription Products. (2) Sp. Prerequisite: Successful completion of all required fall and winter Pharmacy I courses and CP 111 or consent of instructor. Lecture 1 hour, Conference 2 hours. Lem, Yee, and Staff

A continuation of CP 111, introduction to selected topics on nonprescription drugs and products. Discussions on their indications and contraindications. Emphasis on oral communication skills with ambulatory patients. CL PHARM

115. Drug Product Preparation. (1) W. Prerequisite: Concurrent enrollment in Pharmacy 115. Lab 2 hours.

Day and Staff

Preparation of Drug Dosage forms, including compounding appropriate labeling. CL PHARM

116. Drug Product Preparation & Introductory Pharmacy Law. (1) Sp. Prerequisite: CP 115 and concurrent enrollment in Pharmacy 116. Lecture 1 hour. Lab 3 hours Winter and Staff Continuation of CP 115. CL PHARM

120. Introduction to Therapeutics. (3) Sp. Prerequisite: Successful completion of all required first- and fall and winter second-year courses or consent of instructor. Lecture 3 hours.

Flaherty

130. Therapeutics. (5) F. Prerequisite: Successful completion of all required first- and second-year courses or consent of instructor. Lecture 4 hours. Conference 2 hours. Koo, Wong

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

131. Therapeutics. (5) W. Prerequisite: Successful completion of all first- and secondyear required courses and Clinical Pharmacy 130, or consent of instructor. Lecture 4 hours. Conference 2 hours.

Dong, Bolinger, Jafari-Fesharaki Continuation of Clinical Pharmacy 130. CL PHARM

132. Therapeutics. (5) Sp. Prerequisite: Successful completion of all first- and secondyear required courses and Clinical Pharmacy 130, Clinical Pharmacy 131 or consent of instructor. Lecture 4 hours. Conference 2 hours

Alldredge, Frye

Continuation of Clinical Pharmacy 131. CL PHARM

133. Nutrition. (3) Sp. Prerequisite: Thirdyear standing. Lecture 3 hours. Bolinger

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. Koda-Kimble, Louie A review of the management techniques used to develop innovative pharmaceutical ser-

vices, from needs analysis to business case presentation. CL PHARM.

135A. Pre-clerkship Orientation & Drug-Information Analysis Service (DIAS)

Rotation. (1.5) F,W, Sp. Prerequisite: Thirdyear standing. Concurrent or subsequent enrollment in Clinical Pharmacy 130, 131 or 132. McCart

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) F,W, Sp. Prerequisite: Clinical Pharmacy 135A McCart

Continuation of Clinical Pharmacy 135A. CL PHARM

136. Health Policy. (3) W. Lecture 3 hours. Lipton

An introductory course in health policy analysis with special emphasis on health care reform and its implications-and opportunities-for pharmacists. CL PHARM

148A. Inpatient Clinical Clerkship. (9) SS1, SS2, F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-

year courses and Clinical Pharmacy 130 series comprehensive examination. Clinic 40 hours per week for 6 weeks. Ignoffo and Staff

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

148B. Inpatient Clinical Clerkship. (9) SS1, SS2, F,W, Sp. Prerequisite: Clinical Pharmacy 148A. Clinic 40 hours per week for 6 weeks.

Ignoffo and Staff

Continuation of Clinical Pharmacy 148A. CL PHARM

148.01A. Inpatient Clerkship-UCSD. (9) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year courses and Clinical Pharmacy 130 series comprecamination Clinic 40 ho week for 6 weeks.

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

Continuation of Clinical Pharmacy 148.02A. **CL PHARM**

148.03A. Inpatient Clinical Clerkship-UCD. (9) F,W, Sp. Prerequisite: Successful completion of all first-, second- and thirdyear course work and the comprehensive examination. Clinic 40 hours per week for 6 weeks.

Sauer and Staff

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

148.03B. Inpatient Clinical Clerkship-

UCD. (9) F,W, Sp. Prerequisite: Clinical Pharmacy 148.03A. Clinic 40 hours per week for 6 weeks.

Sauer and Staff

A continuation of Clinical Pharmacy 148.03A. CL PHAR M

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

A. Leeds and Staff

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

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

Weibert and Staff

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

149.02A. Amb Externship/Clerkship-UCI & MHLB. (6.5) F.W. Sp. Prerequisite: Successful completion of all first-, secondand third-year courses and Clinical Pharmacy 130 series comprehensive examination. Shimomura and Staff

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

149.02B. Amb Externship/Clerkship-UCI & MHLB. (6.5) F,W, Sp. Prerequisite:

Clinical Pharmacy 149.02A.

Shimomura and Staff Continuation of Clinical Pharmacy 149.02A. **CL PHARM**

149.03A. Ambulatory Externship/

Clerkship-UCD (6.5) F,W, Sp. Prerequisite: Successful completion of all first-, secondand third-year required courses and the comprehensive examination. Clinic 39 hours per week for 6 weeks

Sauer and Staff

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

149.03B. Ambulatory Externship/Clerkship-UCD (6.5) F,W, Sp. Prerequisite: Clinical Pharmacy 149.03A. Clinic 39 hours per week for 6 weeks. Sauer and Staff

A continuation of Clinical Pharmacy

149.03A. CL PHARM

155.40. Seminar in Intraprofessional

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

Clinical Pharmacy

175.03. Infectious Diseases-UC. (1-8) Su,

F,W, Sp. Prerequisite: grade of C or better in

Students review Infectious Disease Service

therapeutic consultations and evaluate pa-

tients' response to recommended therapy by

following chart records and by direct inter-

and rounds. Special projects assigned. CL

130, 131 and 132. Consent of instructor.

views. Students attend conferences, seminars

175.04. Clinical Pharmacokinetics-UC.

(1-8) F,W, Sp. Prerequisite: Clinical Pharmacy

Students participate in the clinical service of

Course includes reviewing drug levels, select-

ing patients to be monitored, preparation and

the Clinical Pharmacokinetics Laboratory.

presentation of reports, attendance at semi-

175.07. Neonatal ICU-UC. (1-8) F,W, Sp.

Prerequisite: Successful completion of all

Participate in activities of Neonatal ICU,

consultation, and utilization. Patients are

primarily premature and newborn infants

with congenital heart defects. Work under

175.21. Pediatrics-SFGH. (1-8) F,W, Sp.

Prerequisite: Clinical Pharmacy 148A or

Students participate with pediatric staff deal-

ing with problems frequently encountered in

those which afflict children from low income.

participation in special projects. CL PHARM

175.22. Infectious Diseases-VAM. (1-8) F,

W, Sp. Prerequisite: Clinical Pharmacy 148A

or 149A and 149B. Consent of instructor.

Students gain experience on the Infectious

Disease Consult Service. Activities include

rounds, medication consultations and provi-

sion of pharmacokinetic monitoring. CL

175.24. Psychiatric Medicine-NS. (1-8) E

Students observe, interview, evaluate drug

of psychiatric disorders, accompany unit

physicians to court, attend interdisciplinary

team conferences, and make specific com-

175.25. Inpatient Medicine-VA. (1-8) F,W,

Sp. Prerequisite: Clinical Pharmacy 148A or

Experience in various medical services atVA.

monitoring drug therapy, consultation with

housestaff, and participation in conferences,

175.26. Infectious Diseases-SFGH. (1-8)

Students round with SFGH Infectious Dis-

eases Consultation Service; evaluate antibi-

otic selection and monitor patients' therapy

for efficacy and toxicity; serve as drug con-

special project relating to some aspect of

infectious diseases and its therapy will be

completed.) CL PHARM

Winter, Olson, Kearney

clinical problems relating to the

sultants to the medical staff on the service. (A

175.30. Clinical Toxicology Pharmacol-

ogy-SFGH. (1-8) F,W, Sp. Prerequisite: Suc-

cessful completion of all first-, second- and

In an interdisciplinary setting, students assess

prehensive exam. Consent of instructor.

third-year required coursework and the com-

F,W, Sp. Prerequisite: Clinical Pharmacy 148A

seminars and rounds. Special projects as-

ments on drug therapy. CL PHARM

149A and 149B. Consent of instructor.

Activities include interviewing patients,

Winter, Korman and Staff

or 149 and consent of instructor.

signed. CL PHARM

Kapusnik-Uner

therapy, interact with patients in acute phases

131 and 132, Consent of instructor.

W, Sp. Prerequisite: Clinical Pharmacy 130,

general pediatric medicine, in addition to

overcrowded and substandard conditions.

Activities include rounds, conferences and

149A and 149B. Consent of instructor.

ment of these patients. CL PHARM

supervision of clinical pharmacist in manage-

including patient monitoring, rounds, drug

first-, second- and third-year required

coursework. Consent of instructor.

A. Wong, D. Takahashi

nars, and experience in leading one. CL

ogy 134 and consent of instructor.

Guglielmo

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Winter

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R. Levin

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Winter, Moe

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Group studies of selected topics in clinical pharmacy. CL PHARM

170.01. Geriatric Pharmacy. (2) F,W, Sp. Lecture 2 hours. Lipton

The medical and social problems associated with the geriatric population will be reviewed, with emphasis on the use of medications and the role of the pharmacist in providing care for this patient population. CL PHARM

170.02. Transplant Immunotherapeutics. (2) Su, F,W, Sp. Lecture 2 hours. Hebert, Aweeka

This course will introduce students to the specialty area of transplant immunotherapeutics. Students will be able to understand the rejection process and graft vs. host reactions. This course will also review the pharmacological and toxicological effects of immunosuppressant agents. CL PHARM

170.03. Journal Club. (1) Sp. Prerequisite: Completion of CP 135A. Third-year Pharmacy students only. Maximum of 40 students. Library research 1 hour. Workshop 2 hours. Schroeder

This course is designed to teach students how to review and effectively apply medical literature to clinical situations. Rotating faculty members will assign the weekly articles and lead the journal club sessions. CL PHARM

170.04. Advanced Compounding Techniques-Walnut Creek. (1-2) Su, F,W, Sp. Lab 3-6 hours. Prerequisite: Pharmacy 116. Consent of instructor. Enrollment limited to two students,

Day, Horwitz

Advanced Compounding Techniques in a community pharmacy (including formulation and packaging) in Walnut Creek. CL PHARM

170.05. Issues Facing Women in Pharmacy. (1) Sp. Lecture/seminar (one Saturday and one weekday evening) 10 hours total. Kimble, Sauer

Through lecture and discussion, issues facing. women in pharmacy will be explored. Specific topics to be addressed include career planning and management; balancing career and personal life; job vs. career commitment; alternative work-time options; mentorship; and issues related to increasing numbers of women entering the profession. Successful female role models will be invited to share experiences and perspectives, providing additional discussion topics. CL PHARM

170.06. Pharmacoeconomics Elective. (1) SS1, SS2, Su, F,W, Sp. Lecture 1 hour. Wilson, Burchmore

Survey of basic economic principles in health care and the tools used to evaluate the costeffectiveness and quality of health care delivery. CL PHARM

170.07. Addictionology & Substance Abuse Prevention. (1-2) W. Lecture 1 hour. Three community presentations (optional). Kimble, Kopp, Inaba

A survey course that addresses the physical and mental effects of drug abuse; intervention and treatment strategies; legal and ethical issues surrounding drug abuse; and substance abuse among health care professionals. CL PHARM

170.08. Current Topics in Cancer. (2) Sp. Lecture 2 hours. Ignoffo This interdisciplinary course is designed to

provide a framework of concepts and skills

cer prevention. CL PHARM

and therapeutics. CL PHARM

9A and 149B Cor

plus project.

Kayser

about preventive medicine, focusing on can-

170.60. Pharmacist & Critical Care. (1.5)

basic life support certification. Lecture 1 hour

Sp. Prerequisite: Fourth-year standing and

This course provides an introduction to the

basic principles of critical care pharmacology

175.01. Inpatient Pediatrics-UC. (1-8) F,

Introduction to clinical pharmacy and therapeutics, focusing on the interpretation of laboratory and other clinical data regarding hematology, fluid and electrolyte balance, renal and hepatic function. An emphasis is placed on problem solving and integration of previous course work. CL PHARM

121. Parenteral Products. (2) F. Prerequisite: Successful completion of Pharmacy 114 & 115, second-year standing and consent of instructor. Lecture 1 hour. Lab 3 hours. Lem and Staff

Introduction to the formulation and compounding of parenteral products. Laboratory includes principles of preparation and orientation to contemporary delivery systems. CL PHARM

122. Pharmacy Law & Ethics. (3) W. Prerequisite: Second-year standing. Lecture 3 hours.

McCart. Rice

Introduction to the scope and authority of various programs which relate to the legal and ethical practice of pharmacy. CL PHARM

Adler and Staff

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

148.01B. Inpatient Clerkship-UCSD (9) F,W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 148A. Clinic 40 hours per week for 6 weeks

Adler and Staff

Continuation of Clinical Pharmacy 148.01A or Clinical Pharmacy 148A. CL PHARM

148.02A. Inpatient Clerkship-UCI & MHLB. (9) F,W, Sp. Prerequisite: Successful completion of all first-, second- and thirdyear courses and Clinical Pharmacy 130 series comprehensive examination. Shimomura and Staff

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

Communications. (1) F. Prerequisite: Sec ond- third-, or fourth-year standing and consent of instructor. Lab 2-3 hours. Seminar 1 hour. Conference 1 hour.

Levin

Preceptorship for Clinical Pharmacy 110 conferences. One sophomore and one junior preceptor per conference will be responsible for conducting oral presentations. One senior per conference will be responsible for taking students on tours of clerkship sites. CL PHARM

155.50. Oncology Seminar. (2) F. Prerequisite: Fourth-year pharmacy students in good standing; graduate nursing students in the oncology program. Seminar 2 hours. Ignoffo

Discussion in detail of topics in oncology that focus upon the pharmacologic management of various neoplastic disorders or cancerinduced problems. CL PHARM

157.10. Pharmacy Services Admin-

MHLB. (1-8) F,W, Sp. Prerequisite: Fourthyear standing and consent of instructor. Shimomura, W.E. Smith

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

W, Sp. Prerequisite: Clinical Pharmacy 148A Zangwill, Premer

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

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

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

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-S. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instructor.

Winter, Kondo

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

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

Dong

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

5

Clinical Pharmacy

175.34. Psychopharmacology-AS. (1-8) F. W, Sp. Prerequisite: Clinical Pharmacy 148A or 149 and consent of instructor. Winter, Raleigh

Provides student opportunity to follow patients from admission until housed on treatment unit. Initial reasons for prescribing medication, acute illness, and in some cases, resolution of psychiatric symptoms will be observed by student. CL PHARM

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

Winter, Buffum 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 inservice programs to psychiatric staff. CL PHARM

175.39. Oncology/Nutrition-STE (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 148A or 149 and consent of instructor. 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 pharmacist in a private hospital oncology unit. CL PHARM

175.60. Ross Valley Pharmacy Clerk-

ship. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 130, 131, and 132. Consent of instructor.

Winter, Lofholm

Students interview patients, maintain medication records, explain medication usage to patients, and answer drug therapy questions generated by physicians, pharmacists and patients in a pharmacy located within a group medical practice. CL PHARM

175.64. Haight Heroin Detox Unit Clkshp. (1-8) F.W. Sp. Prerequisite: Consent of instructor.

Winter, Inaba, Hayner

Students work as co-therapists under the supervision of the clinical pharmacist and physicians to develop individual therapy plans for drug detoxification. Where needed, students develop detailed drug information reports appropriate to specific patient care. CL PHARM

175.65. Monteagle Pharmacy Clkshp. (1-8) FW, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor.

Winter

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

175.68. Senior Medication Education

Prog. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor

Winter, Katcher, Zola

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

175.70. Skilled Nursing Facility Clkshp. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor Winter, Nico, Feldman

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

175.80. Parenteral Nutrition. (1-8) EW. Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor.

McSweeney

175.84. Drug Utilization Review-VAM. 176.41. Hematology/Oncology-UCSD. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148A or 149A and 149B. Consent of instruc-

Winter, Erb, J. Gee

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vices. CL PHARM

Winter, Tuomi

Winter

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D. Adler and Staff

required. CL PHARM

148.01A or 149.01.

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or 149.01

D. Adler and Staff

D. Adler and Staff

149.01

132 and consent of instructor.

tor

Students participate in establishing and pre-

during the rotation, and present results to the

physicians and other disciplines involved. CL

175.87. Drug Utilization Review-UC. (1-

Students design a drug utilization review.

After receiving introductory material about

gather, evaluate, and interpret data for a final

written report suitable for publication. CL

175.90. Drug Information Clerkship-

UC. (1-8) F,W, Sp. Prerequisite: Clinical Phar-

macy 130, 131 and 132. Consent of instruc-

Advanced experience in drug information

retrieval and analysis. Activities include par-

tive teaching assignments in Clinical Phar-

175.93. Cost Control & Qlty Assur-

ance. (1-8) F, W, Sp. Prerequisite: Clinical

Pharmacy 130, 131 and 132. Consent of

Students observe and participate in a busi-

optimal, cost-effective health care. Special

emphasis on delivery of pharmaceutical ser-

175.94. Drug Information-S. (1-8) F.W.

Sp. Prerequisite: Clinical Pharmacy 130, 131,

Participate in activities of drug information

service, including answering drug-related

review. Work under supervision of the direc-

175.99. Clinical Pharmacy Practice. (0) F.

W, Sp. Prerequisite: Successful completion of

all first-, second- and third-year required

Supervised clinical pharmacy experience.

Students develop and explore their roles in an

interdisciplinary health care team, take medi-

patients' specific drug information questions.

176.01. Nephrology-UCSD. (1-8) F,W, Sp.

Prerequisite: Clinical Pharmacy 148.01A or

Students participate in the Renal Consult

Service, Hemodialysis Unit and in the Renal

Clinic with the medical and nursing staff.A

special project selected by the student will be

176.02. Pulmonary Medicine-UCSD. (1-

8) F,W, Sp. Prerequisite: Clinical Pharmacy

Students participate in the activities of the

Pulmonary Medicine Consult Service, Chest

Clinic and Asthma Clinic associated with the

Pulmonary Division at University Hospital.

176.03. Neonatal Care-UCSD (1-8) F,W,

Sp. Prerequisite: Clinical Pharmacy 148.01A

Students participate in the nursery's morning

work rounds, attending high risk infant trans-

portation and delivery. Students will read and

cation histories, monitor drug therapy, pro-

vide patient drug education and research

coursework and consent of instructor.

questions, writing a newsletter and drug

tor for drug information. CL PHARM

ness-professional environment to understand

the role of such an organization in delivery of

Winter, Hirschman, Padelford

macy 135. Special projects assigned. CL

ticipation in conferences, seminars and selec-

purpose and value of such studies, students

131, 132 and consent of instructor.

8) F,W, Sp. Prerequisite: Clinical Pharmacy 130,

senting the protocol for a drug utilization

review. Students will complete the study

(1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. 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

176.42. Hypertension-UCSD. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01

Weibert and Staff

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

176.80. IV Additives & Fluid Ther-UCSD (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01. D. Adler and Staff

Students participate in the activities of the 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**

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

Manoguerra and Staff

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

176.82. Anticoagulation-VASD. (1-8) F.W. Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01.

D. Adler and Staff

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

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

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

178.69. Skilled Nurs Facility Consult-

ing-Sacramento. (1-8) Su, F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and consent of instructor. Sauer, Menet

The student will participate in the activities of a clinical pharmacist practicing as a consultant to skilled nursing facilities. Student will learn applicable federal and state regulations in the long-term care setting. Activities include performing drug regimen reviews. CL PHARM

185.05. Oncology-UC. (1-8) SS1, SS2, F,W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Althaus, Yuen

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

185.06. Cardiothoracic Surgery-UC. (1-8) SS1, SS2, F,W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Salazar

Students are responsible for patient interviewing, monitoring, rounds, and drug consultation. Patients are primarily pediatric with congenital heart defects and adults undergo185.10. General Medicine/Oncology. (1-8) F,W, Sp. Prerequisite: Completion of all required first-, second-, and third-year coursework and consent of instructor. Winter

Students participate in the activities of the Infectious Diseases service, including patient monitoring and attendance at conferences and seminars. Students work under the supervision of the clinical pharmacist and physicians in providing care to all patients who require consultation. CL PHARM

185.11. General Medicine/HIV, (1-8) F.W. Sp. Prerequisite: Completion of all required first-, second-, and third-year coursework and consent of instructor. Winter

Students learn the basic principles of therapeutics related to the disease states encountered in medicine patients in an inpatient setting. Participation in ward and attending rounds with the Department of Medicine Housestaff. Preceptorship by a clinical pharmacist. CL PHARM

185.12. Critical Care Medicine-MZ. (1-

8) SS1, SS2, Su, F,W, Sp. Prerequisite: Successful completion of all required first-, second-, and third-year coursework and/or consent of instructor.

Winter, Quan, Devine Students will participate in the activities of the adult intensive care unit (ICU) and coronary care unit (CCU). Activities include participation in daily rounds, patient-specific drug monitoring, critical analysis of drug information, and informal presentations to the ICU team. CL PHARM

185.13. Surgery and Surgical ICU-MZ. (1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Fourth-year standing and completion of all required first-, second-, and third-year coursework and/or consent of instructor. Winter, Lee, Devine

Surgery and Surgical ICE patient care clerkship includes patient monitoring, surgical team rounds, attendance at seminars and conferences, and providing patient-specific drug information and analysis. CL PHARM

185.20. Mental Health-Santa Clara. (1-8) SS1, SS2, F,W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Winter, Viale, Uyeda

Students will be involved in both inpatient and outpatient pharmacy settings. They will participate in physician-client interviews, medication monitoring, quality assurance studies, drug therapy consultation, and will also consult at a skilled nursing facility. CL PHARM

185.21. Clinical Pharmacokinetics-

VAM. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and thirdyear required coursework and consent of instructor.

Winter, Boro

The Clinical Pharmacokinetics elective will expose pharmacy students to the application of pharmacokinetics principles in the clinical setting. The students will provide pharmacokinetics consultations to pharmacy, medical, surgical, and nursing staff. CL PHARM

185.22. Psychiatric Care-STF. (1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Successful completion of all first-, second- and thirdyear required coursework and/or consent of instructor.

Winter, Del Paggio

Teaching pharmaceutical care in the psychiatric setting, integrating multidisciplinary treatment planning, case analysis, and patient interaction to explore both etiology and treatment options. CL PHARM

185.23. Infectious Disease-VA. (1-8) SS1, SS2, F,W, Sp. Prerequisite: Fourth-year standing and consent of instructor.

Winter, Maddix

Activities include monitoring the drug therapy of Infectious Diseases consult patients and serving as a drug information source for the I.D. Service. Students attend and participate in I.D. rounds and attend relevant I.D.

185.26. Critical Care Medicine-SFGH. (1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and consent of instructor.

Winter, Woods. Liu

Students will be active participants in Medical/Surgical (trauma) ICU patient care. Activities include patient monitoring, rounds, seminars, and conferences and provision of patient-specific drug information and analysis. CL PHARM

185.27. AIDS/Medicine Consult Ser-

vice-SFGH. (1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Completion of all first-, secondand third-year required coursework and consent of instructor.

Winter, Lor, Woods

Students will participate in the AIDS Consult Service including patient monitoring, providing consultation on drug therapy commonly used in treatment of AIDS patients. **CL PHARM**

185.28. Hospital Pharmacy-LH. (1-8) SS1, SS2, Su, F, W, Sp. Prerequisite: Successful completion of all first-, second- and third-

year required coursework and/or consent of instructor. Kotabe

Pharmacy practice experience in long-term care. Activities include participation in drug regimen reviews, DUE, adverse drug reaction reporting, medication distribution, and interdisciplinary care planning. Geriatric emphasis with additional involvement in rehab, AIDS, and hospice care. CL PHARM

185.29. Clinical Care Pharmacy-S. (1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Completion of all first-, second- and third-year required coursework and/or consent of instructor. Clinic 40-60 hours.

M. Winter, Gee-Witt, Chov

Student participates in the activities of the intensive care unit. Activities include attending rounds and ICU conferences, patient monitoring. Learning about drug therapy in common ICU disease states is emphasized. **CL PHARM**

185.30. Geriatrics-VA Yountville. (4-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Successful completion of all first-, second- and thirdyear required coursework and consent of instructor.

M. Winter, Carr-Lopez

Students participate in screening of patients over 70 years of age, biweekly multidisciplinary geriatric team conferences, attending rounds, and weekly geriatric outpatient clinic. Most common problems relate to polypharmacy, poor nutrition, chronic diseases, depression, syncopy, dementia, and pneumonia. CL PHARM

185.31. Critical Care Medicine-PMC. (1-8) F.W. Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and the Comprehensive Exam, and consent of instructor.

M. Winter, Lee, Louie

Students will participate in patient monitoring, teaching rounds, conferences, provision of drug information, inservice education, and the clinical management of selected critical care patients. CL PHARM

185.32. Psychopharmacology-S. (1-8) Su, F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and/or consent of instructor

M.Winter, Liang

ing.

Under supervision of a clinical pharmacist, the student will participate in the activities of general psychiatry and medical psychiatry teams, including interdisciplinary rounds, patient medication counseling and monitoring, drug utilization evaluations, and attendance of grand rounds. CL PHARM

185.33. Drug Information Service-VAM. (1-8) F,W, Sp. Prerequisite: Fourth-year stand-

Winter, Lopez, Gee

Students participate in the activities of the drug information center including providing

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

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

Winter, Keenev, Yee

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

175.83. IV Additives & Unit Dose-

VAM. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor.

Winter, Erb, Carr, Lopez, J. Gee

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

evaluate current neonatal literature, and provide drug-related information to medical staff and parents. CL PHARM

176.04. Pediatrics-UCSD. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01

D. Adler and Staff

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

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

D.Adler and Staff

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

176.40. Anticoagulation-UCSD. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148.01A or 149.01

Weibert and Staff

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

ing aorta-coronary bypass grafts and cardiac valve replacement. CL PHARM

185.08. Psychiatric Pharmacy-LPPL (1-8) F,W, Sp. Prerequisite: Successful completion of all required first-, second-, and thirdyear coursework and consent of instructor. Clinic 20-40 hours/week. Clerkship 20-40 hours/week.

Winter, Ajari

The clerkship will expose students to pharmacy practice in a psychiatric setting. The students will attend team meetings and seminars and counsel patients about their medications. A written project and a presentation in the field of psychopharmacology are required. CL PHARM

185.09. Cardiology-UC. (1-8) SS1, SS2, F, W, Sp. Prerequisite: Completion of all required first-, second-, and third-year coursework and consent of instructor.

Kayser

Inpatient rotation in adult cardiology. Patient activities include rounding with the cardiology team and electrophysiology team, monitoring patients on cardiovascular medications, interviewing appropriate patients, and attending conferences and seminars dealing with cardiology. Patients will be presented to the pharmacy preceptor during regularly scheduled rounds. CL PHARM

and microbiology conferences, CL PHARM

185.24. Oncology-Bone Marrow Transplant. (1-8) F,W, Sp. Prerequisite: Fourth-year standing (CP 130, 131, 132).

Winter, Lyle

This rotation will enable students to participate in the acute management of patients on an oncology/bone marrow transplant unit in a community hospital. This includes involvement with daily team rounds, chemotherapy preparation, TPN ordering, antibiotic management, and hospice interdisciplinary conferences. CL PHARM

185.25. Infectious Disease-Brookside Hospital. (1-8) SS1, SS2, F,W, Sp. Prerequisite: Fourth-year standing and consent of instruc-

Winter, Closson

The fourth-year student will participate in clinical services of the Department of Pharmacy relative to Infectious Disease. The service includes a computer program that links bacteriology reports with current antibiotic therapy. CL PHARM

consultation on drug therapy questions, evaluation of the medical literature, and preparation of a written project suitable for publication. CL PHARM

185.34. Inpatient Clinical Pharmacy. (1-

8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and the comprehensive examination.

Winter, Witt, Fong

The student will work with the clinical pharmacist and will be involved in the care of critically ill patients with multiple medical problems (i.e., sepsis, multiple organ failure) to provide optimal drug therapy by proper drug selection, avoiding drug interactions. and monitoring therapeutic outcomes. CL PHARM

185.35. Psychiatry-Q. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and the comprehensive examination. Winter, Garich, Kudo

The student will be involved in the treatment and care of team-care patients with acute psychiatric illness. Under the supervision of the psychiatric pharmacist, the student will be involved with drug therapy monitoring and will attend daily rounds, meetings and conferences as scheduled. CL PHARM

185.36. Critical Care Pharmacy-SFGH.

(1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Completion of all first-, second- and thirdyear required coursework and/or consent of instructor. Clinic 40 hours.

M. Winter, M. Jones

Participate in providing pharmaceutical care for patients in the medical/cardiac ICU, including attending medical ICU rounds, providing patient-specific drug information, pharmacokinetic monitoring, and attending weekly seminars. CL PHARM

185.37. Pain Management-Sequoia. (1-8) SS1, SS2, F,W, Sp. Prerequisite: Fourth-year standing and consent of instructor.

Winter, Kudzia, Ferraresi

Students will participate in the clinical management of pain for ambulatory, hospitalized, and homecare patients. Activities include interviews and drug therapy evaluation, providing drug information to patients and health care professionals, participating in patient care conferences and homecare services. CL PHARM

185.38. Oncology/Hospice/AIDS-

Sequoia. (1-8) SS1, SS2, F, W, Sp. Prerequisite: Fourth-year standing and consent of instructor.

Winter, Kudzia, Fanning

Students will participate in clinical programs in the oncology, AIDS, and Hospice services in the Acute and Homecare and Hospice settings. Activities include participation in I.V. admixture of chemotherapy, patient profile reviews, patient teaching, interventions for pain control, and drug information. CL PHARM

185.60. Adult Day Health Centers-STM. (1-8) SS1, SS2, F,W, Sp. Prerequisite: Fourthyear standing and consent of instructor. CP 148 &/or 149 preferred. Clinic: 20-40 hours Winter, Robertson, Tom

Students will learn the interdisciplinary approach to providing health care by participating in and contributing to Intake and Assessment meetings at adult day health centers. Knowledge of special pharmacy services, legal requirements, drug formulary maintenance and drug utilization will be acquired. **CL PHARM**

185.63. Ambulatory Care Clinics-Mahalani. (1-8) Su, F,W, Sp. Prerequisite: Completion of all first-, second- and thirdyear required coursework and/or consent of instructor. Clinic 30-40 hours

Winter, Taniguchi

Students will participate in an office-based, patient-focused clinical clerkship, providing patients with drug therapy counseling, managing medication refills, monitoring drug therapy in specialty medical clinics. CL PHARM

185.64. Anticoagulation-K. (1-8) Su, F,W, Sp. Prerequisite: Fourth-year standing, successful completion of all first-, second- and third-year required coursework and/or consent of instructor.

Winter, Davis Students will participate under the supervision of the Clinical Pharmacist in the provision of anticoagulation therapy to patients at the San Francisco Kaiser Hospital. Services range from initiation of heparin therapy to long-term monitoring of patients on warfarin. CL PHARM

185.65. Indian Health Service: Ambulatory Care. (1-8) SS1, SS2, Su, F,W, Sp. Pre-

requisite: Fourth-year standing. Winter, Watson

Students will participate in the provision of the Ambulatory Pharmaceutical care, including patient-medication counseling, screening for appropriateness of therapy, monitoring drug therapy, Continuous Quality Improvement activities, formulary development, providing drug information to health professionals, and physician consultation. CL PHARM

185.66. Women's Health Center. (1-8) F, W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor. Winter

Students participate in functions of family planning-gynecological clinic, including management and handling of pharmaceuticals, monitoring BCP users under NP supervision, and participating in special projects. CL PHARM

185.69. Intensive Care Pharmacy-Sequoia. (1-8) Su, F,W, Sp. Prerequisite: Fourthyear standing and completion of CP 148 or CP 149.

M. Winter, I. Ho

Students participate in daily activities of the Intensive Care Unit pharmacy satellite. They will work under direct supervision of satellite pharmacists. Activities include patient monitoring, dispensing and providing medication information and recommendations to physicians, physician assistants, and nurses. CL PHARM

185.70. Consultant Practice in Extended Care. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and thirdyear required coursework and the compre-

hensive exam. Consent of the instructor. Winter, Douglas Students will participate in drug regimen and internal nutrition reviews, nursing inservices and medication distribution reviews, and conduct medication administration error

audits and special projects. Students may also be involved with the development of laptop computer consulting and nutritional and pharmacokinetic consults. CL PHARM

185.71. Convalescent Pharmaceutical Services-MV. (1-8) SS1, SS2, Su, F,W, Sp.

Prerequisite: Successful completion of all first-, second- and third-year required coursework and/or consent of instructor. Winter, Awashi

Consultant pharmacy practice in the longterm care facility will be emphasized. Activities include drug regimen review, nursing inservice programs, and drug distribution and administration assessments. CL PHARM

185.72. Outpatient Forensic Psychiatric

Service-CSP. (1-8) F,W, Sp. Prerequisite: Completion of Clinical Pharmacy 130, 131, 132 and consent of instructor. Winter, Leung

Students participate in the activities of an outpatient forensic mental health clinic including drug therapy monitoring, patient education and counseling, drug utilization reviews, medication clinics, medication groups, and inservice conferences. They will work under the supervision of faculty in the on-going management of selected mentally

disturbed criminal-justice patients. CL

PHARM 185.73. Integrated Care Systems. (1-8) F, W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and consent of instructor.

Winter, Mah, Igarashi Students participate in home health care services, including fluid compounding, patient monitoring, multidisciplinary meetings, interaction 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

185.74. Home Infusion Therapy. (1-8) F, W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and consent of instructor. Winter, Gross, Walsh, Shalaby

Under the supervision of a pharmacist, students participate in the compounding, monitoring, and management of parenteral nutrition and medications for home-bound patients. Students also become familiar with the administrative structure and marketing of home health services. CL PHARM

185.76. Home Care Mgmt of High-Risk Ob Patient. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and consent of instructor

Winter, Epstein

Students participate in the activities of Tokos Medical Corporation, including patient monitoring and attendance at medical rounds. They will work under the supervision of the clinical pharmacist in the provision of home care to the high-risk obstetrics patient. CL PHARM

185.77. Drug Utilization Eval and Target Drug Programs. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, secondand third-year required coursework and consent of instructor. Winter, Devine Students will design and implement a target drug program which will include the following components: Drug utilization evaluation, written proposal, implementation, followup, and publication. Students will participate in didactic conferences which will discuss formulary management, DUEs, cost containment strategies, and target drug implementation. CL PHARM

185.79. IV Admixture, Automated Unit Dose. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and thirdyear required coursework and consent of instructor.

Winter, K. Lee, Christa

Students will participate in a centralized IV Admixture, Automated Unit Dose system of distribution and outpatient pharmacy operation. Activities will include patient profile reviews, drug usage evaluations, drug information research and presentations. Optional computer and management training is available. CL PHARM

185.80. Ambulatory Care Clinic. (1-8) Su, F,W, Sp. Prerequisite: Fourth-year standing, successful completion of all first-, secondand third-year required coursework and/or consent of instructor.

M. Winter, Wilde

Under the direction of a clinical pharmacist, students will interview patients on TB medications, evaluate dosage and regimens, and adjust medications as deemed necessary and consistent with the protocols of the clinic. CL PHARM

185.86. Pharmacy Quality Assurance/ Drug Utilization Evaluation. (1-8) SS1,

SS2, F,W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Winter, Johnson

This rotation teaches students the process of how to set up criteria for conducting drug utilization evaluation. Students will have an understanding of the limitations and applicability of data generated from DUEs. Additional experience will be obtained in other quality assurance projects. CL PHARM

185.95. Drug Use Evaluation-UC-S. (1-8) SS1, SS2, F,W, Sp. Prerequisite: Fourth-year standing and consent of instructor. Winter, Krstenansky

Students will participate in drug usage evaluations, focusing on concurrent monitoring and interventions designed to improve patient outcome. They will also investigate reported adverse drug reactions and assist in the development of educational programs for other health care professionals. CL PHARM

185.96. Pharmacy Administration-S. (1-8) Su, F,W, Sp. Prerequisite: Fourth-year standing and/or consent of instructor. Winter, Caldwell

Students develop practice management skills under supervision and guidance of a Pharmacy manager. Activities include attendance and participation at meetings, implementation of programs assisting the manager in ensuring departmental compliance with regulatory requirements. CL PHARM

185.97. Ambulatory Care Pharmacy. (1-8) F,W, Sp. Prerequisite: Completion of all first-, second- and third-year required coursework and/or consent of instructor. M. Winter, Tung

Student activities include dispensing, monitoring medication profiles, patient medication courseling, answering drug information questions from patients and providers, inventory control, 3rd-party billing, weekly conferences with preceptor. CL PHARM

186.06. Clinical Pharmacokinetics-

UCSD. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148A or 149 and/or consent of instructor.

D. Adler, J. Lane

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

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

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

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

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

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

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

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

187.04. Pediatrics-MHLB. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor. Shimomura

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

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

Active involvement with patients and staff in acute care mental health facility. Students interview, interact with, and monitor patients. Thorough background of various forms of mental disorders, treatment and role of pharmacist 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 intensive care unit and inpatient pediatric services, monitoring patients, attending rounds and conferences. Emphasis will be on acute inpatient pediatric medicine and neonatology under supervision of pediatric clinical pharmacist and pediatricians. CL PHARM

187.07. Ophthalmology-UCLA. (1-8) W, Sp. Prerequisite: Fourth-year standing and consent of instructor.

Shimomura, S. Gardner

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

187.09. Fairview State Hospital Clkshp. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor. Shimomura, Shukur

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

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

Students observe and participate in monitoring geriatric patients in several long-term care facilities. Students will gain appreciation of the role of the consultant pharmacist and learn how to adjust drug therapy and dosages for geriatric patients. CL PHARM

187.11. Medicine at Friendly Hills Medical Center (1-8) F, W, Sp. Prerequisite: Fourth-year standing and consent of instructor.

Shimomura, Kitayama, Levesque

Students participate in rounds with clinical pharmacists. They are involved in monitoring TPN solutions, screening patients with posi187.60. Home Care-Pharm Enterprises Inc. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor.

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

187.61. Foster Infusion Care. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework.

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Shimomura, Campbell

Students will be exposed to various aspects of a home care pharmacy including pre-discharge patient assessment, patient training and education, manufacturing of parenteral solutions and home delivery, and patient follow-up visits. CL PHARM

187.65. FHP-HMO Clinical Pharmacy Clerkship. (1-8) F,W, Sp. Prerequisite: Completion of all first-, second- and thirdyear required coursework. Shimomura

Students participate in providing clinical pharmacy services in an HMO setting. Activities include attending inpatient service rounds, providing clinical services to ambulatory patients and providing inservice 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

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

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

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, prefilled syringe programs, home hyperalimentation and piggybacks. CL PHARM

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

An on-line experience in a drug information center serving a large multidisciplinary teaching hospital. Through a series of experience modules, in addition to day-to-day information requests received by the center, students will be expected to demonstrate competence in drug literature evaluation and drug information retrieval skills. CL PHARM

187.83. IV Additives-UCLA. (1-8) W, Sp.

Prerequisite: Fourth-year standing and con-

Clerkship provides an opportunity for stu-

dents to develop and use skills relating to all

Students will make routine case presentations

regarding patients receiving different types of

Prerequisite: Successful completion of all first-, second- and third-year coursework and

A supervised clinical pharmacy experience in

inpatient and outpatient settings which al-

pharmacy settings involved with oncology

practice. Through observation and perfor-

mance, students will develop and explore

188.02. Psychiatric Consult Service-

their roles as clinical pharmacists. CL

lows students to develop skills in clinical

areas of a centralized IV additive service.

intravenous therapy, including parenteral

188.01. Oncology-UCD. (1-8) F,W, Sp.

sent of instructor.

nutrition. CL PHARM

consent of instructor.

Sauer and Staff

Shimomura

185.67. Operating Room Pharmacy-

Sequoia. (1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Fourth-year standing. Winter, Shaieb

Students will gain an understanding of the pharmacist's role and medications used in the operating room. Students will participate in preparation and compounding of medications for surgeries, attend surgeries, provide drug information, provide inservices to pharmacy and/or OR staff, and counsel patients on discharge medications. CL PHARM

185.68. Intravenous Admixtures-Sequoia. (1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Fourth-year standing. Winter, Landers

Students will participate in a centralized intravenous admixture program. Activities will include compounding of intravenous admixtures, training in concepts of quality assurance and risk management with respect to sterile products and monitoring and adjustment of parenteral nutritional therapy. CL PHARM

185.78. Drug Usage Eval and Target Drug Programs. (1-8) F.W. Sp. Prerequisite: Successful completion of all first-, secondand third-year required coursework and consent of instructor.

Winter, L. Davis

Students will design and implement a drug usage evaluation and target drug program which will include the following: Development of a written proposal, presentation to the P&T Committee, and implementation, data collection and followup activities. Students will participate in didactic conferences which will discuss formulary management, Drug Usage Evaluation process, cost containment strategies, and target drug implementation activities. CL PHARM

D. Adler and Staff

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

186.74. Home Care/Infusion Therapy-

UCSD. (1-8) Su, F,W, Sp. Prerequisite: Fourth-year standing. D. Adler, D. Golman

Students will work with nursing and pharmacy staff providing services to home care/ home infusion patients, including IV compounding, therapeutic monitoring, documentation, physician and nurse case conferences, student presentations, and projects. CL PHARM

187.01. Oncology-MHLB. (1-8) W, Sp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor.

Shimomura

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

tive culture results to assure appropriate anti microbial selection and dosage, adjusting serum levels of selected agents. CL PHARM

187.20. Psychopharmacology-Patton. (1-8) F,W, Sp. Prerequisite: Clinical Pharmacy 130, 131, 132 and consent of instructor. Shimomura, Luna

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

187.21. Presbyterian Intercommunity Clin. Pharmacokinetics. (1-8) F,W, Sp Shimomura, Zeisler

Students will acquire the basic knowledge in applied pharmacokinetics necessary to provide consultative assistance to the physicians in developing an appropriate drug dose regimen. Emphasis will be placed on integrating knowledge of patients' problems with the knowledge of the drug's kinetic and pharmacologic properties. CL PHARM

completion of all first-, second- and thirdyear coursework, Clinical Pharmacy 149 and consent of instructor.

UCD. (1-8) F.W. Sp. Prerequisite: Successful

Sauer and Staff

PHARM

Students will participate in the activities of the Psychiatric Consult Service. Activities include participation on consult rounds, interviewing patients, and monitoring drug therapy in selected patients. CL PHARM

188.03. Poison Information-UCD. (1-8) Su, F, W, Sp. Prerequisite: Successful completion of all first-, second- and third-year coursework and consent of instructor. Sauer and Staff

Students participate in poison control center activities, e.g., answering phone, taking poison histories, monitoring patients, and giving poison prevention talks to the public and health care professionals. CL PHARM

Clinical Pharmacy

188.04. Neonatal Intensive Care-UCD. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and thirdyear coursework, CP 148, and consent of instructor.

Sauer and Staff

Students will become members of Neonatal Intensive Care Team, attend rounds, conferences, monitor and evaluate drug therapy, and provide drug therapy-related consultation. CL PHARM

188.05. Medical Intensive Care-UCD. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year coursework, Clinical Pharmacy 148 and consent of instructor.

Sauer and Staff

The student will work with pharmacist in the Medical Intensive Care Unit (MICU) and satellite pharmacy providing both clinical and distributive pharmacy services. Students will be exposed to drug therapy as it relates to different disease states seen in the unit. CL PHARM

188.06. Surgical Intensive Care-UCD. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year coursework and consent of instructor. Sauer and Staff

The student will work with pharmacists providing clinical and distributive services to critically ill patients in the surgical Intensive Care Unit. Activities will include patient rounds, monitoring drug therapy, and providing drug information and pharmacokinetic consultation. CL PHARM

188.07. Clinical Nutrition/Total

Parenteral Nutrition-UCD. (1-8) Su, F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year coursework Clinical Pharmacy 148 and consent of instructor.

Sauer, Nishikawa, Sieplar

This clerkship offers the student an extensive experience in clinical nutrition. Students will assist pharmacists in the management of patients requiring parenteral nutrition and will become an integral member of the Clinical Nutrition Service. CL PHARM

188.08. Central IV Pharmacy-UCD. (1-8) F,W, Sp. Prerequisite: Completion of all first-, second- and third-year coursework and/or consent of instructor.

Sauer and Staff

Centralized IV admixture program. Activities include compounding using aseptic technique, being trained in concepts of quality assurance for sterile products, monitoring and adjusting parenteral therapy, applying clean room procedures, interacting with health professionals with regard to parenteral therapy CL PHARM

188.09. Drug Use Evaluation-UCD (1-8) F,W, Sp. Prerequisite: Fourth-year standing and completion of Clinical Pharmacy 148 or 149.

Sauer, Mowers, Dunlap

The student will participate in the activities of the Drug Use Evaluation/Drug Information Service. Activities include conducting DUEs, preparing formulary evaluations for the Pharmacy and Therapeutics Committee and providing drug information consultation to hospital staff. CL PHARM

188.10. Infectious Diseases-UCD. (1-8) F, W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and comprehensive examination. Sauer, King

Students will be active participants in the UCD Medical Center Infectious Diseases Consult Service. They will work closely with the Infectious Disease Pharmacist, evaluating antibiotic selection, monitoring therapy and providing drug information. A project will be completed during the rotation. CL PHARM

188.11. Pharmacokinetic Consult Service-UCD. (1-8) Su., F,W, Sp. Prerequisite: Successful completion of all first-, secondand third-year required coursework, and consent of instructor.

B. Sauer, Dager

pate in the activities of students will partic the pharmacokinetics consult service. Activities will include monitoring patients on selected drugs and providing pharmacokinetic consultation to the medical staff. CL PHARM

188.14. Pain Management-UCD (1-8) SS1, SS2, Su, F,W, Sp. Prerequisite: Fourthyear standing and/or consent of instructor. Clinic 40-60 hours. Sauer and Staff

ment, promotion of rational use of medica-

tions to alleviate pain, nausea, vomiting, and

itching, and provides oral and written consul-

tations. Student will also work on investiga-

tional drug studies with the Acute Pain Ser-

188.15. Palliative Care-UCD (1-8) Su, F,

Palliative medicine fouses on the philosophy,

skills and abilities, and delivery of culturally

sensitive patient-directed care to the termi-

nally ill. The 4-6 week rotation consists of

comprehensive didactic instruction in rel-

tal. (4-8) F,W, Sp. Prerequisite: Fourth-year

188.20. Oncology-Sutter Memorial Hospi-

A supervised clinical pharmacy experience in

inpatient and outpatient settings which al-

lows students to develop clinical skills in-

volved with oncology, nutritional support,

and hospice. Through observation and per-

formance, the students will develop and ex-

plore their roles as clinical pharmacists. CL

188.21. Cardiology-DCH. (1-8) F,W, Sp.

an inpatient setting which allows students to

develop skills in clinical pharmacy involved

with cardiology. Through observation and

performance, students will develop and ex-

plore their roles as clinical pharmacists. CL

188.25. Managed Care, County of Sacra-

Students will become familiar with principles

and operation of a managed health care orga-

completion of all first-, second- and third-

year required coursework, and consent of

Prerequisite: Successful completion of all

first-, second- and third-year required

coursework and consent of instructor.

Sauer, Brown and Staff

evant medicine topics. CL PHARM

standing and consent of instructor.

Sauer, Brown and Staff

PHARM

PHARM

instructor.

Sauer, Mitsuoka

W, Sp. Prerequisite: Fourth-year standing.

vice. CL PHARM

Sauer and Staff

Student participates in the provision of post-Sauer, Talaga, Fritz operative trauma and cancer pain manage-

of instructor.

A supervised clinical experience in a community-based psychiatric hospital that allows students to develop skills in drug selection and monitoring of response and compliance. Through observation and participation, students will understand the contributions of clinical pharmacists in multi-disciplinary treatment. CL PHARM

188.33. Community Inpatient Psychiat-

ric Clerkship-SVH. (1-8) F,W, Sp. Prerequi-

third-year required coursework and consent

site: Completion of all first-, second- and

188.40. Veterinary Medicine-UCD. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework and consent of instructor. Sauer, Enos

The student will participate in the clinical and dispensing activities of a pharmacy practice involved in veterinary medicine. Through observation and performance, students will explore the role of the clinical pharmacist in the care of large and small animals. CL PHARM

188.45. Hematology/Oncology-K. (1-8) F,W, Sp. Prerequisite: CP 130, 131, 132. Fourth-year standing. Sauer, Lance

Students participate in the clinical and dispensing activities of the hematology/oncology clinic. Activities include rounding with physicians, participation on the hospice multidisciplinary team, attending required conferences, and preparation and delivery of sterile chemotherapy agents. A project is required. CL PHARM

188.81. Community Pharmacy Manage-

ment-UCD. (1-8) F,W, Sp. Prerequisite: CP A supervised clinical pharmacy experience in 130, 131, 132. Fourth-year standing. Sauer, Lallo, Ingram The student will gain practical and didactic experience in all aspects of operation and management of an outpatient community prescription pharmacy. Emphasis will be placed on business and management aspects of practicing in a prescription-only pharmacy, mento. (1-8) F,W, Sp. Prerequisite: Successful one of three in a small independent group.

CL PHARM 198. Supervised Study. (1-5) F,W, Sp.

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

Comprehensive Dental Care

110.01 Introduction to Comprehensive Dental Care. (1) F. Lecture 1 hour. Lee

Lecture topics include basic concepts of dental health and disease, examination of the oral and facial structures, and working in the dental clinic environment. RESTOR DENT & DENT PUB HLTH

110.02 Preventative and Conservative Dentistry. (2) W. Lecture 10 hours, lab 30 hours per quarter.

Eakle, Lee

Introduction to concepts and clinical techniques of caries prevention, early intervention, and conservative management. Students will detect caries, learn remineralization procedures, prevention of pit and fissure caries with sealants, and use a variety of materials to place conservative restorations. RESTOR DENT

116. Introduction to Comprehensive Dental Care. (0-6) F,W, Sp. Nakahata

First-year students will be introduced to comprehensive care through seminars, laboratory and clinical experiences in epidemiology, preventive dentistry, ergonomics, basiclevel dental hygiene and assisting skills, patient counseling and behavioral science techniques, history recording, and clinical oral radiography. DENT PUB HLTH, RESTOR DENT, STOMATOL

139. Comprehensive Dental Care Clinic. (0-8) Su, F, W, Sp. Clinic 240 hours per quarter. Pelzner, Ino

Introductory clinical course in basic general dentistry. Students will learn to diagnose and treat, as well as prevent, dental diseases. Students will develop skills in communication, time management, and infection control while delivering comprehensive care to patients needing simpler treatments. DENT PUB HLTH, RESTOR DENT

149. Comprehensive Dental Care. (0-25) Su, F, W, Sp. Clinic 750 hours per quarter. White, Goodis, Finzen, Taggart, Herbert Clinical instruction and practice in oral diagnosis, treatment planning, periodontics, general restorative dentistry, endodontics, prosthodontics. Students will further develop communication skills, time management, and infection control while delivering comprehensive care to patients. DENT PUB HLTH, RESTOR DENT

156. Introduction to Comprehensive Care. (0-3.5) F,W, Sp. Seminar 25 hours, clinic 30 hours per quarter. Perry, Bird, Hume, Angin

First-year dental hygiene students are introduced to comprehensive care through seminars, laboratory and clinical experiences in epidemiology, preventive dentistry, ergonomics, basic dental hygiene and assisting skills, patient counseling and behavioral science techniques, history recording, and clinical oral radiography. INTERDEPARMENTAL

189. Comprehensive Dental Care. (1-4)

Su, F, W, Sp. Prerequisite: Satisfactory completion of all third-year courses and consent of instructor. Fourth-year standing. Clinic 30-120 hours per quarter. White, Herbert

This elective course provides clinical instruction and experience in comprehensive dental care in addition to CDC 149. INTERDEPARMENTAL

Craniofacial Anomalies

206. Etiology, Growth Characteristics and Management of Cleft Lip and Palate. (2) W. Prerequisite: Enrollment in a postprofessional graduate program or consent of instructor. Seminar 2 hours. Vargervik

The etiological factors of cleft lip and palate will be discussed following the development postnatally and the effect of various surgical and non-surgical treatment approaches. GR DEVEL

207. Etiology, Growth Characteristics and Management of Various Craniofa-

cial Anomalies. (1) Sp. Seminar 1 hour. Prerequisite: Enrollment in a postprofessional graduate program or consent of

instructor.

Vargervik The underlying factors that lead to various craniofacial anomalies other than cleft lip and palate will be discussed and treatment approaches will be analyzed and compared. GR DEVEL

419. Craniofacial Anomalies. (1) Su, F.W. Sp. Prerequisite: Enrollment in a post-professional graduate program or consent of instructor. Clinic 3 hours.

Vargervik

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

Dental Health Education

150. Human Development & Oral Health Education. (2) W. Lecture 2 hours. Rowe

Introduces the student to basic concepts of preventive oral hygiene, learning and motivation theories, and an overview of human development, including physical/dental,

Dental Hygiene

101.01. Leadership & Mgmnt in Dental Hyg. (2) W. Lecture 2 hours. M. Walsh

Analysis of leadership and management theories, and of primary leadership skills related to personal behavior, communication, organization, and self examination. Graduate programs and leadership roles in dental hygiene education, accreditation, public health, and industry are discussed. Course provides opportunity to develop leadership roles appropriate to the student's area of interest. DENT PUB HLTH

101.02. Leadership & Mgmnt in Dental Hygiene. (0-2) W, Sp. Lecture 2 hours. Hannebrink

Consideration of dental hygiene leadership roles in the areas of practice management and career planning including goal analysis and nontraditional roles for dental hygienists. Course provides opportunity to implement leadership role in student's area of interest.

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

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

150.01. Theoretical Foundations for Dental Hyg. (2) F. Prerequisite: Dental hygiene standing. Lecture 20 hours.

Walsh

Course introduces a conceptual framework and theoretical approach as the basis for providing dental hygiene care. Basic concepts of health and illness, human need theory, the scientific method, and leadership theories are considered with emphasis on health promotion and disease prevention for the individual, family, and community. DENT PUB HLTH

150.02. Assessments in the Dental Hygiene Process. (2) F. Prerequisite: DH 150.01. Lecture 20 hours per quarter. Yamamoto

This course focuses on assessment, planning, goal setting, implementation, and evaluation of the dental hygiene process. The rationale for data collection, clinical techniques, and documentation procedures are presented. DENT PUB HITH

150.03. Dental Hyg Planning, Implementation, & Evaluation. (2) W. Lecture 2 hours.

Yamamoto

The planning, implementation, and evaluation phases of the dental hygiene care process will be emphasized as a continuation of DH 150.02. The use of assessment data to plan care and set goals for the patient will be presented as well as the implementation of highly technical skills of dental hygiene practice. Evaluation of dental hygiene care is emphasized as an essential component of the dental hygiene process. DENT PUB HLTH

150.04. Dental Hyg Care for Patients

with Special Needs. (2) Sp. Prerequisite: DH 150.01, 150.02 & 150.03. Lecture 2 hours. Rowe

Course addresses the role of the dental hygienist in preventive dentistry and non-surgical periodontal therapy with emphasis on the objective and principles of comprehensive dental hygiene care for special needs patients. Modification of dental hygiene care for special needs patients will include the areas of communication, appointment planning, environmental considerations, home care, and safety precautions in treatment. DENT PUB HLTH

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

Concomitant with Dental Public Health and Hygiene 121, each student will prepare an annotated bibliography on a research topic of

technology, while dealing with a variety of patients in the community hospital setting. Communication with other healthcare disciplines is stressed. CL PHARM

F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework, and consent of instructor. Sauer, Hazlet

The Food & Drug Branch (FDB) is the regulatory agency in the State of California responsible for processed food, cosmetics, drugs, and medical devices. Students, based upon interests and goals, will participate in investigational drug reviews, analysis of proposed legislation, and/or special projects. The number of hours spent in each area and total units will depend on the student project and will be agreed upon by the student and preceptor prior to starting the clerkship. CL PHARM

requisite: Completion of all first-, secondand third-year required coursework. Sauer, Fox

Students will participate in selected areas of a home health care pharmacy. Students will develop skills in areas of parenteral and enteral nutrition, diabetic training, ostomy appliance applications, and durable medical equipment services in a home setting and a skilled nursing facility (convalescent hospital) setting. CL PHARM

area of potential cost containment and develop a written policy and procedure to effect a positive clinical and economic solution. CL PHARM 188.26. Acute Care-CHS. (1-8) F.W. Sp. Prerequisite: Successful completion of all

first-, second- and third-year required coursework, and consent of instructor. Sauer, Dallas, Beeman

in the clinical arena utilizing state-of-the-art

188.27. State Food & Drug Branch. (1-8)

188.30. OPTION Care. (1-8) F.W., Sp. Pre-

nization. The student will then identify an

Students will concentrate on developing skills

188.12. Pediatrics-UCD (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year required coursework, and consent of instructor. Sauer and Staff

Under supervision of the clinical pharmacist, students will become members of the pediatric ward team. They will attend rounds and conferences, monitor patients, evaluate drug therapy, and when appropriate, recommend therapy. Patients vary in age from 2 weeks to 16 years. CL PHARM

188.13. Cardiology-UCD (1-8) Su, F.W, Sp. Prerequisite: Fourth-year standing and completion of CP 148 or CP 149. Sauer and Staff

Students actively participate as members of the cardiology service, collecting and interpreting patient data and lab results, developing and implementing a monitoring plan, evaluating responses and prospectively monitoring for efficacy and toxicity. CL PHARM

188.31. Skilled Nursing Facility Consultation-Sutter Oaks. (1-8) Su, F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year coursework and consent of instructor. Sauer, DiGiambattista

The student will participate in the activities of a pharmacist consulting in the long-term care setting. The student will learn federal and state SNF regulations and will conduct a project: CL PHARM

188.32. Home Infusion Pharmacy-NMC Inc. (1-8) F,W, Sp. Prerequisite: Successful completion of all first-, second- and third-year coursework and consent of instructor.

Sauer, Dager

Pharmacy students will participate in various operations within a home health care pharmacy. Subject areas include TPN, enteral nutrition, and home antibiotic therapy. Clinical monitoring of such patients will be emphasized. CL PHARM

126 Intermediate Comprehensive Dental Care. (0-6) F,W, Sp. Clinic 3 hours. Rotation 3 hours.

Wong, Bird, Lee

This course provides introductory experiences in health assessment, generating differential diagnoses, administering local anesthesia, root-planing teeth, and operating as clinical assistants. Clinical problem-solving sessions coordinate and reinforce important principles. Students learn to provide appropriate treatment to patients with uncomplicated periodontal and restorative needs. STOMATOL, DENT PUB HLTH, RE-STOR DENT, ORAL & MAX SURG

136. Laboratory Procedures in Comprehensive Dental Care. (0-3) EW. Sr Douglass

Scheduled laboratory time for supervised dental technical work related to the care of assigned patients. Supervised preparation for, and fabrication of, assigned restorations. Assessment and finalization of commercial laboratory work. RESTOR DENT

cognitive, emotional, and psychosocial aspects across the life span. DENT PUB HLTH

161ABC. Curriculum Theory & Design. (0-3) F,W, Sp. Lecture 3 hours. Walsh

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

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

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

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

Walsh

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

choice. DENT PUB HLTH

153A-B. Clinical Dental Hygiene Semi-

nar. (1-1) F,W. Prerequisite: DH 153A is prerequisite to DH 153B. Seminar 1 hour. Yamamoto

Seminar to discuss the dental hygiene process as applied to dental hygiene care. Each seminar will provide an orientation to each of the techniques/skills taught as part of dental hygiene practice in DH 155A&B (Clinical/ Lab application). Armamentarium, sequential steps for technique performance as well as specific criteria for performance evaluation are included. DENT PUB HLTH

153C. Clinical Dental Hyg Care Seminar. (1) Sp. Seminar 1 hour. Yamamoto

Seminar discussions will focus on code of conduct, patient care responsibilities, patient records, financial policies, emergency procedures, infection control protocols, clinic administrative policies/procedures and patient care, and issues related to clinical dental hygiene care. DENT PUB HLTH

155A. Introduction to Clinical Dental Hygiene Care. (2) E Clinic 60 hours per quarter. Yamamoto

Laboratory and clinical experiences to introduce the student to interpersonal skills, technical skills, and procedures used in the clinical practice of dental hygiene. They include professional conduct, medical history review, and introduction to examination, exploring, probing, and scaling tech-niques. DENT PUB HLTH

155B. Intro to Clin Dental Hygiene Care. (2) W. Prerequisite: DH 155A. Lab 6 hours

Yamamoto

Continuation of lab and clinical experiences in patient assessments with greater emphasis on dental hygiene care, planning, goal setting, case presentation, and implementation of instrumentation techniques for providing prevention-oriented dental hygiene care and non-surgical periodontal therapy. Dental hygiene care evaluation is also emphasized as an essential component of the dental hygiene process. DENT PUB HLTH

159. Clinical Dental Hygiene Care. (2) Sp. Prerequisite: DH 155A-B. Clinic 6 hours. Yamamoto

Clinical application of the dental hygiene process for delivering patient-centered dental hygiene care incorporating a human needs theory framework. Patient care responsibilities will include prevention-oriented dental hygiene care and non-surgical periodontal therapy. Improved proficiency in assessment, planning, goal setting, implementation, and evaluation of patient care and associated professional responsibilities will be emphasized. DENT PUB HLTH

160. Ethics and Jurisprudence. (1) W. Lecture 1 hour. Hannebrink

Introduction to the ethical, legal, and professional responsibilities of the dental hygienist. Emphasis on the California Dental Practice Act, malpractice prevention, and professional organizations. DENT PUB HLTH

161. Orientation to Dentistry. (2) Sp. Lecture 2 hours. Rowe

Orientation to the various specialties and areas in the field such as dental transplantations, orthodontics, oral surgery, craniofacial anomalies, maxillofacial rehabilitation, and removable and fixed prosthodontics. This course is intended to help prepare dental hygiene students to be more knowledgeable and informed so that each patient can receive the finest care possible according to his/her respective needs. DENT PUB HLTH

163.01. Comprehensive Dental Hygiene Care. (2) F. Lecture 2 hours. Perry

Study and integration of additional clinical procedures into the dental hygiene process to insure and enhance quality comprehensive dental hygiene care. DENT PUB HLTH

163.02. Comprehensive Dental Hygiene Care. (1) Sp. Prerequisite: DH 163.01. Lecture 1 hour.

D. Perry

Continuation of the study and integration of additional clinical procedures into the dental hygiene process to insure and enhance quality comprehensive dental hygiene care. DENT PUB HLTH

164. Clinical Dental Hygiene Seminar. (0-1) F,W, Sp. Prerequisite: Second-year den-

tal hygiene standing. Seminar 1 hour. Hannebrink (F), Perry (W, Sp) Clinical seminar to discuss clinic policies and procedures, dental hygiene treatment planning, and related topics. DENT PUB HLTH

166. Expanded Clinical Functions (3.5) F Lecture 30 hours, lab 15 hours per quarter. Hannebrink

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

169A-B-C. Compr Clinical Dental Hy-F,W, Sp. Prerequisite giene Care. (4-5 Dental Hygiene 150.01, 150.02, 150.03, 150.04, 155A, 154.01, 154.02, 154.03, 159. Concurrent enrollment in Dental Hygiene 169. Clinic 12 hours F, 15 hours W, Sp. Perry

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

Silverstein

One-half unit of credit for every five threehour 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 offcampus 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 member of the faculty with the approval of the chairperson of the department. DENT PUB HLTH

201A-B-C. Current Topics I. (1-1-1) § F, W, Sp. 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 systematic manner. Current literature will be critically reviewed by students under faculty supervision, by faculty, or guest lecturers. DENT PUB HLTH

202. Curriculum Theory and Design in Dental Hygiene. (3) § F. Lecture 3 hours. Walsh

Analysis of theories and research in education, with an emphasis on curriculum development, teaching strategies and evaluation methods for use in planning educational programs in schools of dental hygiene. DENT PUB HLTH

203A-B-C. Current Topics II. (1-1-1) § F, W, Sp. Prerequisite: DH 201A-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 systematic manner. Current literature will be critically reviewed by students under faculty supervision, by faculty, or guest lecturers. DENT PUB HLTH

301. Teaching Practicum in Dental Hygiene Education. (1) § F,W, Sp. Prerequisite: Dental Hygiene 202. Lab 3 hours. Walsh

Practical teaching experiences in selected dental hygiene courses under the supervision of dental hygiene faculty members. DENT PUB HLTH

Dental Public Health and Hygiene

117. Professional Issues in Dentistry. (3) F. Seminar 5 hours, lecture 5 hours per quarter.

Silverstein and Staff

Lectures and seminars on professional issues in dentistry. Topics included are: Modes of practice, dental needs of special groups, drug use/abuse, ethics and history of dentistry. DENT PUB HLTH

121. Dentist-Patient Communication.

(1) F. Lecture 5 hours. Seminar 5 hours. Centore Students will be introduced to the dentistpatient relationship, including communica-

tion skills such as active listening, facilitative communication, and tailoring communication to the individual patient. Methods to improve the dyadic relationship and to increase patient compliance will be addressed. DENT PUB HLTH

140. Multidisciplinary Topics in Dentistry. (0-4) Su, F,W, Sp. Seminar 40 hours per quarter. Bird

Multidisciplinary seminars for fourth-year dental students to reinforce significant aspects of clinical and biomedical sciences, bioethics, dental practice management, and to update students on new developments in dentistry. DENT PUB HLTH

175. Dental Public Health Practice & Clinic. (1-9) Su, F, W, Sp. Prerequisite: Postgraduate standing and permission of instructor.

Silverstein and Staff

To provide the dental public health residents 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

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

186. Multidisciplinary Geriatric Care. (1.5) F,W, Sp. Lecture 2 hours. Field work 2 hours. Conference 1.5 hours (optional). **Bird and Staff**

A seminar and clinical rotation in which the students function as members of a multidisciplinary health care team. Students evaluate geriatric patients and formulate comprehensive treatment plans. Seminar topics include functional assessment, home assessment, social resources and dental management. DENT PUB HLTH

186.10. Issues in Professional Leader-

ship. (1) Su, F,W, Sp. Prerequisite: Permission of instructor. Restriction: Limited to 12 students. Conference 1 hour.

Greene

This course is designed to give structure and guidance to the experience of students with an interest in leadership and governance. DENT PUB HLTH

186.20. Communication Skills in Dentistry. (1) F. Seminar 1 hour. Yee, Bird, and Staff

Practice management: communication skills in dentistry. Students will learn effective communication skills with patients and staff through personality profiles. They will become effective in case presentations, and in dealing with fearful, angry, unmotivated patients. DENT PUB HLTH

186.30. Dental Private Practice: Career Guidance and Planning. (1) W. Seminar 1 hour.

Yee, Bird, and Staff

Practice management: career guidance and planning. Students will learn effective resume writing and interviewing skills for associateship positions, and key steps needed to purchase a new or existing dental practice. Each student will have written career and life goals and action steps. DENT PUB HLTH

186.40. Dental Private Practice: Financial Planning and Management. (1) Sp. Seminar 1 hour. Yee, Bird, and Staff

Practice management: financial planning and management. Effective financial management principles to run a profitable, low stress private practice. Concepts on debt management, cash flow, fee setting, budgeting, doctor and staff compensation, and break-even analysis will be covered. DENT PUB HLTH

186.50. Advanced Dental Practice Management. (1-2) F,W, Sp. Prerequisite: Permission of in-structor. Restriction: Limited to 15 students. Seminar 1 hour. Research 1 hour. Project 1 hour (optional) Bird

Advanced concepts of dental practice management utilizing dental practice case studies, computer simulations and practice analysis techniques, and independent study. Orientation to dental management systems will be included. DENT PUB HLTH

188.10. Dental Science and Health Education I. (1) F. Prerequisite: DPHH 116 or consent of instructor. Restriction: Limited to 6-10 students. Seminar 1 hour. Research 0-1 hour. Field work 0-3 hours. Pollick

Review of literature on dental science projects and dental health education for grades 6-8 in the San Francisco Unified School District. Students will develop their own project to assess needs and plan, implement, and evaluate a program to address those needs. In conjunction with the Science and Health Education Partnership between UCSF and San Francisco Unified District middle schools. DENT PUB HLTH

188.30. Dental Science and Health Edu-

cation III. (1) Sp. Prerequisite: DPHH 188.20 or consent of instructor. Restriction: Limited to 6-10 students. Seminar 1 hour. Research 0-1 hour. Field work 0-3 hours. Pollick

Review of literature on dental science projects and dental health education for grades 6-8 in the San Francisco Unified School District. Students will develop their own project to assess needs and plan, implement, and evaluate a program to address those needs. In conjunction with the Science and Health Education Partnership between UCSF and San Francisco Unified District middle schools. DENT PUB HLTH

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

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

410. Practice Management for Advanced Education in General Dentistry. (1) W. Seminar 1 hour. Bird

This seminar series is designed to provide the trainee with information on hiring, training, and evaluating personnel; purchasing or associating in a dental practice; role of business and professional advisers; and development of a business plan. DENT PUB HLTH

429.10. Clinical Teaching Practicum. (0-4) F,W, Sp. Clinic 4 hours. Restriction: AEGD students enrolled in the second-year program. Kirkland

Instruction and practice in providing dental clinical teaching. DENT PUB HLTH

489. Advanced Care for Special Patients. (0-6.5) Su, F,W, Sp. Kirkland, Chin, Weisman

This seminar series will present the etiology, rationale, and methods used in the oral diagnosis and dental treatment of patients with medical or physical conditions that require a modification in the provision of dental care. Trainees will provide dental services for such patients. DENT PUB HLTH

489.10. Advanced Dental Care for Special Patients. (0-6.5) Su, F,W, Sp. Prerequisite: DPHH 489. Restriction: AEGD students enrolled in the second-year program. Kirkland

This course will emphasize the provision of comprehensive dental services for patients with special needs such as the frail, elderly, developmentally disabled, and medically compromised. Students will provide clinical instruction for first-year trainees. DENT PUB HLTH

Dermatology

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

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

140.01. Clinical Dermatology. (3-6) Su, F, W, Sp. Prerequisite: Consent of instructor. Williams, Christman, Maurer

Clinical dermatology including an introduction to description, diagnosis, and treatment of common dermatology conditions. Recognition and referral process in a managed care setting. DERMATOL

140.02. Off-Campus Clerkship. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of instructor. Odom

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

140.03. Advanced Dermatology Clerkship-Fresno. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and consent of instructor.

452. Off-Campus Clerkship. (1.5 per

DERMATOL

150.01. Research in Dermatology. (0.5 per week) F.W. Sp. Prerequisite: Consent of instructor. Berger

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

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

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

E. B. B.

401. Dermatopathology. (2) Su, F,W, Sp. Lecture 2 hours. LeBoit

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

402. Dermatological Literature. (1) F,W, Sp. Seminar 1 hour. Maibach and Staff

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

403. Specialty Seminar. (2) F,W, Sp. Seminar 2 hours.

ing, and reports on dermatology and related

basic sciences such as embryology, mycology,

histopathology, and parasitology in relation to

404. Clinical Evaluation. (1) F.W. Sp. Semi-

Seminar involves the evaluation of recent

clinical cases of special interest. Cases are

presented by the faculty and resident staff.

405. Research. (3) Su, F,W, Sp. Lab 9 hours.

Instruction in the conduct of research

projects dealing with electron microscopy,

biology, biochemistry, and immunology of

the skin under normal and pathological con-

406. Related Science Seminar. (10) Su, F,

In-depth discussion of the sciences basic to an

understanding of the function and dynami-

tion of skin, including anatomy, physiology.

microbiology, pharmacology, biochemistry,

genetics, and pathology. Over a three-year

period, course covers all aspects of basic sci-

ences relevant to dermatology. DERMATOL

407. Cutaneous Microbiology. (2) Su, F.W.

Sp. Prerequisite: Consent of instructor. Lec-

Course is designed to familiarize dermatol-

and identification of dermatophytes, skin

bacteria, and viruses. Occasional lectures on

specialized topics are given. DERMATOL

450. Clinical Care Clerkship, (10) Su, F,W,

Residents, under supervision, are responsible

for patient care in the wards and outpatient

clinic. Duties include history-taking, physical

examinations, and consultations. In addition,

the senior resident has certain administrative,

teaching, and clinical responsibilities.

451. Clinical Care Clerkship. (1.5 per

Residents, under supervision, are responsible

for patient care in the wards and outpatient

clinic. Duties include history-taking, physical

examinations, and consultation. In addition,

the senior resident has certain administrative,

teaching, and clinical responsibilities.

ogy residents with the techniques of isolation

dermatologic conditions; and oncology as it

relates to the skin. DERMATOL

Wintroub and Staff Seminars include discussions, required read-

nar 1 hour.

DERMATOL

Wintroub

ture 2 hours.

Wintroub and Staff

DERMATOL

Wintroub

week) Su, F, W, Sp.

Aly

Wintroub and Staff

ditions. DERMATOL

W, Sp. Seminar 1 hour.

Wintroub and Staff

Assessment of patient histories and signs of deviation from normal in the oral-facial complex, and planning, implementing and evaluating comprehensive dental hygiene care within a human needs framework. Includes advanced techniques of periodontal nonsurgical and maintenance therapy, pain control, gingival curettage, for the periodontitis-affected patient. DENT PUB HLTH

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

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

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

149. Family Dental Care. (0-8) Su. Fifteen hours per week for one week. **Bird and Staff**

This is a multidisciplinary course designed for the beginning fourth-year dental student. It is designed to prepare students for the advanced clinical skills needed in esthetics, materials, complex case and team efficiency management. In addition, it is intended to give the student direction to achieve immediate postgraduate goals. DENT PUB HLTH

150. Dental Morphology. (2) F. Prerequisite: Concurrent enrollment in Dental Hygiene 150A. Lecture 2 hours. K. Wong

The development and form of deciduous and permanent dentition and occlusion. Study of individual tooth and arch form to interarch relationships as well as endodontic morphology. DENT PUB HLTH

188.20. Dental Science and Health Edu-

cation II. (1) W. Prerequisite: DPHH 188.10 or consent of instructor. Restriction: Limited to 6-10 students. Seminar 1 hour. Research 0-1 hour. Field work 0-3 hours.

Pollick

Review of literature on dental science projects and dental health education for grades 6-8 in the San Francisco Unified School District. Students will develop their own project to assess needs and plan, implement, and evaluate a program to address those needs. In conjunction with the Science and Health Education Partnership between UCSF and San Francisco Unified District middle schools. DENT PUB HLTH

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

140.04. Advanced Inpatient Clerkship. (1.5 per week) F,W, Sp. Prerequisite: Dermatology 140.01.

Berger

Four-week block rotation. Students will work with inpatient Dermatology resident and share primary responsibility for inpatients, hospital consultations and psoriasis day care center patients. DERMATOL

140.22P. Selected Issues in Dermatology. (1.5 per week) Sp. Prerequisite: Fourth-year medical students only.

Humphreys, McCalmont, Williams Independent exploration of four important topics (moles and melanoma: connective tissue disease; dermatology and primary care; the skin as a barrier) in dermatology. Students will pose a self-study question regarding the weekly topic, obtain additional information, and present their findings for discussion. DERMATOL

week) Su, F,W, Sp. Prerequisite: Consent of instructor.

Wintroub

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

Endocrinology Courses in Endocrinology are offered through various departments. For further information regarding any of them, contact the instructor in charge or Dr. Zach Hall, Chair, Department of Physiology, Interdisciplinary Program in Endocrinology. See also Biochemistry course offerings.

150.01. Research. (1.5 per week) F,W, Sp. Prerequisite: Consent of instructor. Staff

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

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

Dallman

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

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

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

202. Mechanisms of Hormone Action.

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

Nissenson, Bourne

Course covers classical and current literature concerning known and speculative mechanisms of hormone action. Major topics are: G proteins, adenylate cyclase, Ca** as a second messenger, oncogenes, growth factors, and steroid hormone action. PHYSIOLOGY

203. General Endocrinology. (5) § E Prerequisite: Consent of instructor. Lecture 3 hours. Lab 3 hours. Seminar 1 hour. Dallman, Weiner

A survey of the principles of endocrinology focusing on experimental approaches. The course includes lectures, reading of the pri-

mary literature and a laboratory problem. PHYSIOLOGY

210. Clinical Endocrinology Seminar. (1) § F,W, Sp. Shoback

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

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

Epidemiology

Courses in Biostatistics and Anthropology, which are also offered through the Department of Epidemiology and Biostatistics, are listed separately under their respective headings.

101. Epidemiology and Biostatistics. (3) Sp. Lecture 1.5 hours. Seminar 1.5 hours. Restriction: First-year medical student or consent of instructor.

Ernster, Croughan-Minihane, Black Introduction to epidemiologic and biostatistical methods: Research approaches to disease etiology, prevention and treatment; interpretation and critical evaluation of medical literature; measures of disease occurrence; screening and diagnostic test evaluation; major disease risk factors; and clinical importance of preventive medicine, EPID & BIOSTAT

140.02B. Off-Campus Clerkship. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of chairperson of department.

Hulley and Staff

Clerkships in clinical epidemiology in offcampus settings. EPID & BIOSTAT

140.22C. Scientific Foundation of Clinical Prevention for Women. (6) F. Prerequisite: 4th-year medical students only. Grady, Kerlikowske

Students will learn how to critically evaluate scientific mformation that is the basis for recommending or not recommending various screening tests and preventive treatments for women in the areas of heart disease, breast cancer, osteoporosis, and sexually transmitted diseases. EPID & BIOSTAT

140.22L. Cardiovascular Disease Prevention. (6) W. Prerequisite: 4th-year medical students only. Hulley

Cardiovascular disease prevention issues will be introduced within the context of case esentations. Students will research the en demiology, pathophysiology, clinical trials and varying recommendations from experts in the field. Topics include hypercholesterolenna, hypertension, stroke, and secondary prevention. EPID & BIOSTAT

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

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

170.08. International Health Policy. (2) Sp. Lecture 2 hours. J. Justice

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

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

Mustacchi

Seminars on selected topics in occupationally related diseases with specific emphasis on their epidemiologic, preventive, and compensation aspects. Discussion, with examples, of the concept of disability and of the physician's basic role and responsibilities in determining its level. EPID & BIOSTAT

170.12. Epidemiology of Infectious Diseases. (1-2) F. Lecture 1 hour. Term paper for 2 units optional with consent of instructor. Conte

Course considers the public health consequences of different communicable diseases (including AIDS, sexually transmitted diseases, tuberculosis, measles, and food-borne bacterial diseases), and examines strategies for surveillance, outbreak investigation and prevention (including immunization) of infectious diseases in different settings. EPID & BIOSTAT

170.13. Molecular Cancer Epidemiology. (1-2) W. Lecture/seminar 1 hour. Term

paper for 2 units optional with consent of instructor. Wiencke and Guest Lecturers

Course explores how biologic markers can be used to understand factors involved in human carcinogenesis and how to use lab methods and analytical epidemiology to identify, at the molecular and biochemical level, exogenous agents and host factors affecting human cancer causation. EPID & BIOSTAT

180. Hith Intervention in Devl Areas. (1) § Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Project 1 hour. Kiefer

Explores practical and ethical problems of health workers from urban-industrial cultures intervening in developing areas. Provider/ client differences in perception, values, needs. Problems of goal-setting, assessment, rapport, communication, consensus-building, evaluation. Practical experience in teaching health promotion to underserved groups. EPID & BIOSTAT

180.04. Research Design. (3) § Su, F. Prerequisite: Consent of instructor. Lecture 1 hour. Workshop 6 hours.

Hulley

A workshop for students to design their own protocol for carrying out a clinical research project. Specific topics are: the research question, study designs, study subjects, measurements, sample size, ethical considerations, presets, data management, quality control, and proposal writing. EPID & BIOSTAT

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

R. Goldsmith

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

190. Introduction to Epidemiology. (3) § F,W, Sp. Lecture 3 hours.

White and Staff

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

202. Nutritional Epidemiology. (2-3) §W. Prerequisite: Consent of instructor. Lecture/ seminar 2 hours. Library research 3 hours (optional). Lee

Course explores epidemiologic studies on the influence of dietary factors to risk of disease, with special emphasis on the methodology used and on understanding its strengths, limitations, and appropriate applications to interpret epidemologic information relating to nutrition. EPID & BIOSTAT

Family and Community Medicine

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

Shore, Schafer

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

140.01A-B-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-Blossom, Schafer, B-Hardison, C-Slater, D-Rodnick, Mitchell A-VMC in Fresno; B-NAT in Salinas; C-CHS in Santa Rosa; D-other sites. Comprehensive inpatient and outpatient experience in family practice. Students assume sub-intern responsibility for patient care. Community assignments may be individually arranged. FAM CM MED

140.02. Community Health Programs. (1.5 per week) Su, F,W, Sp. 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, Diabetic Summer Camp, Asian Health Service, and varied neighborhood clinics. FAM CM

140.04. Family Practice Preceptorship. (1.5 per week) Su, F,W, Sp. Prerequisite! Consent of instructor.

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

140.05A-B-C-D. Social Medicine. (1.5 per week) F, W, Sp, Su. Prerequisite: Consent of instructor.

Barbaccia

MED

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

140.06A-B-C. Rehabilitation Medicine. (1.5 per week) A, B, and C are offered in all of the following quarters: Su, F, W, Sp. Prerequisite: Consent of instructor. L. Crain, N. Był

A-San Francisco Bay Area; B-Fresno; Cother sites. Students are assigned to rehabilitation facilities for two to four weeks. Emphasis will be on the selection of patients who are suitable for rehabilitation and the inter-professional approach to rehabilitation. FAM CM MED

140.15. Continuity Care Clinic. (1) Su, F, W, Sp. Prerequisite: Senior clerkship which would enable the student to pick up patients to be followed in clinic. Shore, Mitchell, Brody

Students will see primary care patients onehalf day per week for six to nine months.

140.51. Emergency Medicine-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110, Obstetrics and Gynecology 110, Pediatrics 110 and Surgery 110.

Kallsen, Chooljian, Comes

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

140.52. Rural Family Practice-Selma.

(1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110, Surgery 110, Pediatrics 110, Ob/Gyn 110. Schafer, Moir

Primary care at Selma Community Health Center, in an agricultural community near Fresno. Ambulatory practice includes pediatrics, obstetrics, gynecology, and chronic diseases. Includes patient rounds, deliveries, and emergency room experience at modern rural hospital. Exposure to rural private family practice available. FAM CM MED

140.53. Inpatient Medicine/Family Practice. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110, FCM 110, fourth-year standing.

Heyne, Zweifler

Students function as subinterns on general medicine ward staffed by Family Practice residents and faculty. Acute medical care is provided with special input from department psychologist and health educator. FAM CM MED

140.54. Primary Care in the Latino Community-Fresno. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110, or Peds 110, or Ob/Gyn 110, or consent of instructor. Logan

Outpatient clinical experience in a community health center in a predominately Latino community, with emphasis on communityoriented primary care. Each student's program will be individually tailored to include exposure to epidemiology, pediatrics, ob/gyn, and adult medicine in a Latino community. FAM CM MED

140.60A-C-D. Clinical Geriatrics. (1.5 per week) F,W, Sp. Prerequisite: Medicine 110 and Neurology 110 and consent of instructor.

Barbaccia, Werdegar and Staff

A-San Francisco; C-St. Marv's; D-Other. Students supervised by attending staff are assigned patients in clinical settings; outpatient departments, adult day centers, nursing homes, acute hospital; also home care. Students will attend multidisciplinary case conferences, didactic sessions, geriatrics consultation rounds. FAM CM MED

140.61. Geriatrics-Long-Term Care-LH. (1.5 per week) Su, F,W, Sp. Prerequisite: Third-year standing.

Beck, Borgenicht and Johnson Students will work with geriatricians and other health professionals to learn about the clinical management of geriatric patients. FAM CM MED

140.70. Community Medicine in International Perspective. (1.5 per week) Su, F, W, Sp. Prerequisite: Conversational command of language of country of placement and consent of instructor.

Coady, Goldsmith, Petitti A 4-12 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

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

Rodnick, Barbaccia and Staff

Clinical epidemiology, health services, or behavioral science research approaches are applied in the study of selected areas in family

medicine or community health. FAM CM MED

60.01. Community Medicine Field

160.05. Mission Community Hith Elective. (1-3) Su, F,W, Sp. Prerequisite: Consent of instructor. Lab 2-6 hours. Field work 2-8 hours.

D. Sanchez, N. Medina

Explores health care attitudes, health problems and health care resources in the multiethnic Mission District of San Francisco. Students receive clinical assignments in one or more community health and social service agencies. Field experience is analyzed in seminars and tutorials. FAM CM MED

160.07. Family Health & Care. (2) F. Semi-

nar 2 hours. Ransom, Braveman, Segal

Introductory principles of family medicine are discussed in class and discussion groups led by family physicians and family psychologists. Preceptorships with family physicians in private offices and community clinics. Each student will interview a family and present a case report. FAM CM MED

160.70. Community Medicine in International Perspectives. (1.5 per week) F,W,

Sp. Prerequisite: Consent of instructor. Coady, Lane, Goldsmith, Petitti An 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 as well as availability of appropriately supervised sites. FAM CM MED

170.01A-B-C-D-E. Special Issues in

following quarters: F,W, Sp. Prerequisite:

Explores in systematic (lecture/readings/

discussion) format new issues in health care

or special content areas related to family and

community health. Topics are developed and

prepared according to faculty-student inter-

170.02. Elderly Community Programs.

This course offers the student a survey of the

status factors of the city's aged. On-site con-

ferences are held at representative programs

170.03. Developmental Disabilities. (2-5)

Su, F,W, Sp. Prerequisite: Consent of instruc-

Resource overview with reading assign-

the spectrum of community and institu-

tional services, including comprehensive

services for children and adults with devel-

170.04. Rehabilitation in Primary Care.

(1) Su, F,W, Sp. Prerequisite: Consent of in-

Course exposes medical and other health

tation and common therapeutic strategies.

Emphasis will be on the development of a

basic theoretical foundation on which the

in practice. FAM CM MED

Field work 4-8 hours.

eases. FAM CM MED

L. Crain

student can build clinical rehabilitation skills

170.05. Rehabilitation Medicine. (1-5) F.

Through individualized arrangements, course

provides an introduction to the broad spec-

trum of rehabilitation services for children

and/or adults with chronic or disabling dis-

170.07. Communication with Latino

Patients. (2) F,W, Sp. Prerequisite: Medical

student status. Lecture 2 hours. Lab 1 hour.

A practical course designed to develop basic

skills in overcoming cultural and linguistic

barriers to health care for Spanish-speaking

Braveman, Koreck, Vasquez-Vega

W.Sp. Prerequisite: Consent of instructor.

science students to the principles of rehabili-

diagnostic, therapeutic, and counseling

opmental disabilities. FAM CM MED

structor. Seminar 2 hours for 6 weeks.

ments correlated with field observations of

aged in San Francisco. Lectures cover the

socio-demographic, cultural, and health

and facilities serving the aged. FAM CM

(2) W. Lecture 1 hour. Conference 2 hours.

Consent of instructor. Lecture 1 hour.

Shore and Staff

ests. FAM CM MED

Enrollment limited.

MED

L. Crain

Byl, Berrol

Barbaccia, Robinson, Weiss

tor. Field work 4-8 hours.

Health Care. (1) A-E are offered in all of the

150.02. Research Abroad. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of instructor. Restriction: Limited to 2 students per block.

Staff

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

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

Petrakis and Staff

Survey and discussion of key papers in the epidemiology of major cancer sites. Emphasis is on etiologic and methodologic aspects and implications for prevention. EPID & BI-OSTAT

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

Library research and directed reading under supervision of a member of the faculty. EPID & BIOSTAT

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

A laboratory research project under direction of a member of the faculty. EPID & BIOSTAT

201. Socioepidemiology of Aging. (3) § Sp. Prerequisite: Consent of instructor, Lecture/seminar 2 hours. Library research 3 hours.

Davis and Guest Lecturers Overview of the influences of

sociodemographic structure, status, processes and changes on morbidity, functioning, longevity and mortality across the adult life span, with special emphasis on changes in sociodemographic risk factors with age. EPID & BIOSTAT

They will continue to see patients who were initially seen during the student's medicine or FCM 110 clerkship. FAM CM MED

140.22M. Physicians and Managed Care.

(6) Sp. Prerequisite: Fourth-year standing. O'Neil

This course is designed to introduce fourthyear medical students to the practice realities and opportunities that will emerge throughout their professional practice in managed care environments. FAM CM MED

140.40. Adv Inpatient Fam Med Clkshp. (1.5 per week) Su, F,W, Sp. Prerequisite: Senior medicine clerkship.

R. Goldschmidt

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

Work. (1.5-3) Su, F,W, Sp. Prerequisite: Medical student standing. Consent of instructor, Field work 4-8 hours. Barbaccia

Non-block assignments to community health agencies where students have patient contact. Students choose an aspect of the agency's program for analysis. FAM CM MED

160.03. Family Practice Preceptorship. (1-3)

Su, F,W, Sp. Prerequisite: Medical student standing. Consent of instructor. Field work 4-12 hours.

Shore

Non-block assignment with a family physician in a private office or community clinic for a minimum of four hours a week. Preclinical students observe their preceptors in order to gain an introduction to family care. FAM CM MED

160.04. Seminars in Sports Medicine. (3)

F. Open only to second-year School of Medicine students or graduate students in Physical Therapy. Seminar 2.5 hours. Field work 1 hour.

Brown

A seminar series and practical field experience providing basic information on a broad variety of issues in sports and dance medicine, including evaluation, prevention of injury, conditioning, environmental issues and sports persons. FAM CM MED

170.08. Complementary Forms of Healing. (1) F. Medical students only. Lecture 1 hour.

Hughes

This course explores the general theory and practice of several widely utilized non-allopathic healing modalities with the aim of demonstrating how these therapies can be complementary to modern technologycentered health care. FAM CM MED

170.09. Health Issues in Central America. (1) W. Lecture 1 hour. Baron, Braveman, Perez-Stable

A lecture-discussion course on current issues in health care in Central America. Emphasis is on relationship between health situation in Central American nations and its relation to Central American patients seen in San Francisco. FAM CM MED

170.10A. Homeless Health Issues. (1) F. Lecture 1 hour.

Desmond

A survey course covering the broad spectrum of living issues (health care, drug addiction, HIV, shelter life, etc.) confronting the homeless population of San Francisco. The seminar will be given in lecture format during the lunch hour. One session will be devoted to discussion of issues presented. FAM CM MED

170.10B-C. Homeless Health Issues: Case Discussion and Presentation. (1-1) W. Sp. Prerequisite: Involvement with student-run homeless health clinic. Conference 1 hour

Desmond

A two-quarter conference which enables first- and second-year medical students to research and present case studies encountered during work at the student-run clinic. Two to three cases will be presented and discussed each week. FAM CM MED

171.01. The Healer's Art. (1) W. Lecture 1 hour, 3 3-hr. workshops per quarter. Remen

An exploration of personal values and meaning in medicine. Students will learn techniques of self-care to preserve empathy and compassion; learn to grieve their losses and support patients' and colleagues' grief; and deepen a sense of the sacred in medicine. FAM CM MED

171.02A. Asian/Pacific Islander Health Issues. (1) F. Lecture 1 hour. Yu

This course will introduce some of the health care issues facing Asian and Pacific Islanders in the U.S. and will discuss the cultural considerations that come into play when addressing these issues in the API community. FAM CM MED

171.03. Student AIDS Forum. (1) F. Film 3 hours, workshop 7 hours. Goldschmidt

The Student AIDS Forum provides an introduction to issues raised by the AIDS epidemic through workshops, films, and panels. The Forum challenges students to think through these issues as preparation for working with people with HIV. FAM CM MED

172A. Legal Medicine-Basic Concepts. (2) F. Lecture 2 hours. Tennenhouse

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

172B. Legal Medicine-Practical Aspects. (2) W. Lecture 2 hours. Tennenhouse

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

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

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

184. Contemporary Issues in Latino Health. (2) Sp. Prerequisite: Medical student status. Seminar 2 hours.

Medina An introduction to demographic, political/ economic, anthropologic and sociologic issues of importance for the health of diverse

Latino subcultures in the US. FAM CM MED

185. Health Care Systems. (3) Sp. Lecture 1 hour. Seminar 2 hours. Barbaccia

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

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

220. Current Topics. (0.5) § F,W, Sp. Prerequisite: Consent of graduate adviser in genetics. Seminar.

Herskowitz and Staff

Students will lead a discussion on a topic of special interest in genetics. A different faculty member will act as adviser each week. This is a required course each quarter for first- and second-year students in genetics. BIOCHEM

222. Topic in Medical Genetics. (1) § Su, F, W, Sp. Conference 1.5 hours. Clinic 1.5 hours.

Epstein, Packman, Cox

A course using participation in a working genetics clinic and directed reading and discussion to present the concepts and approaches of medical genetics and the application of molecular, cellular, and developmental biology to the understanding of human genetic disease. BIOCHEM

224. Advanced Human Genetics. (1.5) § Sp. Lecture 1.5 hours. Offered in alternate years. Not offered 1996-97. Epstein, Kan, Cox, Gitschier, Packman,

Wolff Course covers topics in current human genetics research, including molecular approaches to the mapping of human chromosomes, molecular analysis of mutant human genes, use of restriction fragment length polymorphisms for linkage analysis and diagnosis, effects of chromosome imbalance, gene therapy, and environmental mutagenesis. BIOCHEM

226. Human Developmental Genetics. (2) § Sp. Seminar 2 hours. Prerequisite: Genetics 200A. Offered in alternate years. Offered 1996-97.

Epstein A seminar course in which human genetic disorders affecting morphogenesis and development will be analyzed to elucidate the pathogenetic relationships between the underlying molecular defects and the resulting phenotypic abnormalities. BIOCHEM

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

Growth and Development

110. Normal & Abnormal Craniofacial Dev. (1) F. Lecture 1 hour. Kahn, S. Fisher, C. Cook, R. Coleman,

Kapila Developmental processes underlying normal and abnormal craniofacial morphogenesis are presented and the biologic basis for congenital malformations are discussed. GR DEVEL

120. Orofacial Functions/Dysfunctions. (1) W. Lecture 1 hour.

Vargervik, Peterson-Falzone, Kapila Clinical considerations of normal and abnormal patterns of orofacial function are discussed to provide a basis for diagnosis and prognosis of functional disorders involving the orofacial region. GR DEVEL

122. Oral Physiology. (1.5) F. Lecture 3 hours.

A. Miller

The physiology of the craniofacial region will be taught emphasizing endocrine control of calcium and phosphate, mineralization, salivation and taste, sensory control related to craniomandibular muscles, mastication, swallowing, and characteristics of craniomandibular muscles. GR DEVEL

198. Supervised Study. (1-5) Su, F,W, Sp. Prerequisite: Enrollment in dentistry or dental hygiene programs. Project 30-150 hours per quarter

Kahn and Staff

This elective course allows dental and dental hygiene students to do research related to growth and development. Library research and directed reading are conducted under supervision of a member of the faculty with approval of the Chair of the Division. GR DEVEL

199. Laboratory Projects. (1-5) Su, F,W, Sp. Prerequisite: Enrollment in dentistry or den- , tal hygiene programs. Lab 30-150 hours per quarter.

Kahn and Staff

This elective course allows dental and dental hygiene students to do research related to

211. Behavior and Ethical Considerations in Dentistry. (2) § Su. Prerequisite: Available for credit to students in dental postgraduate specialty programs and to graduate students in Oral Biology. Seminar 2 hours. Pollick, Baumrind, Gerbert This course includes discussion of behavioral

issues that affect dental practice. Students will also be made aware of the ethical aspects of dental practice and dental research, and will consider how these concerns affect their decisions. GR DEVEL

212. Neuromuscular System &

Craniomand Dev. (2) F. Prerequisite: Available for credit to graduate students in Oral Biology, dental postgraduate specialties, and as an elective to upper class students in Dentistry and Medicine. A. Miller

Seminar provides students with an understanding of craniomandibular muscles and the neuromuscular system as they relate to cranioskeletal and mandibular development. **GR DEVEL**

Health Sciences Education

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

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. CL PHARM

History of Health Sciences

150. History of Pharmacy. (2 or 3) F. Lecture 2 hours; term paper (optional) for 3 units Sadée

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

150.01. 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.

Staff

Two-week non-clinical block devoted to reading, library research, 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, corporate medicine, and the physician-patient relationship. HIST HL SC

170.01. Historical Perspectives in Medicine. (1-3) F,W, Sp. Prerequisite: Consent of instructor. Lecture 1-2 hours. Optional 1-2 hour seminar, conference, or independent study or research paper. Staff .

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

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

Historical research and/or directed reading 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). Risse

General survey chronologically arranged from prehistory to the Renaissance. This course examines the changing burden of disease across cultural and geographic boundaries and presents broad conceptual developments that in each period influenced the evolution of medical knowledge and professional activities. HIST HL SC

200B. Introduction to Medical History. (2-4) § W. Prerequisite: Consent of instructor. Lecture 2 hours, Seminar 1 hour (optional). Term paper (optional). Risse, Pressman

201A. Health and Plagues: Ecology and History. (2-4) § F. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Term paper (optional). Risse

General overview of health conditions across cultural and geographic boundaries from prehistory to the Renaissance, including leprosy and 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. (2-4) §W. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Term paper (optional).

Risse, Pressman

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

201C. Health and Plagues: Ecology and History. (2-4) § Sp. Prerequisite: Consent of

instructor. Lecture 2 hours. Seminar 1 hour. Term paper (optional). Risse, Pressman

Last segment of the general overview of health conditions in prominent past societies from the nineteenth century 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) § Sp. Prerequisite: Consent of instructor. Seminar 2 hours. Optional term paper & reports. Pressman

Introduction to medical historiography. Discussion of different historical approaches employed in writing history: intellectual, social, sociological, feminist perspectives, and the sociology of knowledge. HIST HLTH SCI

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

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 HLTH SCI

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

Introduction to the craft of interpreting and writing medical history. Directed and assisted research and writing of historical topics. HIST HLTH SCI

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

Pressman Evolution of conceptions 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

HLTH SCI 210. Topics in the History of Nursing. (2-3) § W. Prerequisite: Consent of instructor. Seminar 2 hours. Term paper (optional). Flood

Selected topics in nursing history since the time of Florence Nightingale examined within 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

Analysis of institutional developments from pre-Christian times, Christian hospitality and segregation schemes, to the secularization and medicalization of the hospital during the Enlightenment. HIST HLTH SCI

211B. History of Hospitals II. (2-4). § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour. Risse, Pressman

220. Selected Topics. (1-4) § F.W. or Sp. Prerequisite: Consent of instructor. Seminar 1-2 hours. Term paper (optional). Written reports (optional). Staff

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

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250. Research. (1-8) § F,W, Sp. Prerequisite: Consent of instructor. Seminar 1-4 hours. Staff

Supervised independent research, including presentations and criticism of research sources, methods, and papers. HIST HL SC

252. Women, Health, & Healing. (2-4) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour (optional). Term paper (optional). Clarke

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

297. Special Study. (1-4) § F, W, Sp. Prerequisite: Consent of instructor. Seminar 1-2 hours. Term paper/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, Sp. Prerequisite: Advancement to candidacy and permission of the graduate adviser. Staff

For graduate students engaged in writing the

299. Dissertation. (0) § F,W, Sp. Prerequisite:

Advancement to candidacy and permission of

For graduate students engaged in writing the

dissertation for the PhD degree. HIST HL

Human Development &

200. Off-Campus Study. (0) § F,W, Sp.

Prerequisite: Approval of graduate adviser.

Full-time graduate study in the Human De-

velopment and Aging program through the

intercampus exchange or consortium pro-

205. Data Analysis. (3) § F.W. Sp. Prerequi-

site: Consent of instructor. Lecture 3 hours.

projects. Emphasis is on training in data orga-

nization, analysis, and research report writing.

214. Adv Personal Development. (2-3) §

Sp. Prerequisite: Hum Dev 204, or consent of

instructor. Seminar 2 hours, optional extra

The prerequisite, Hum Dev 204, combines

study of mainstream theories of adult person-

ality development with literary works as case

ceeds to the study of alternative modes from

lesser-known Western and Asian traditions-

C.G. Jung, William James, Hindu, Buddhist,

Taoist, and Judeo-Christian spiritualist writ-

229. Sociology of Stress. (2) § Su. Prereq-

uisite: Consent of instructor. Doctoral stu-

Course explores current theories and re-

tions and experiences that act as stressors,

quences of stress. PSYCHIATRY

equisite:

search dealing with sources of stress and cop-

ing mechanisms. Course examines the condi-

coping behaviors, the nature and functions of

social support systems, and the health conse-

230. Research Project Seminar. (6) § F,W,

nate standing

dents only. Seminar 2 hours.

ings-and literary examples based on these.

material. This course, Hum Dev 214, pro-

Students either provide their own or use

accessible data from ongoing research

the graduate adviser.

gram. PSYCHIATRY

Staff

Aging

Staff

Mullan

Kiefer

PSYCHIATRY

PSYCHIATRY

Mullan

thesis for the master's degree. HIST HL SC

Genetics

200A. Principles of Genetics. (3) § F. Lecture 3 hours.

Herskowitz

In-depth analysis of genetic mechanisms in selected procaryotes, eucaryotes. Topics include genetic exchange (conjugation, generalized and specialized transduction, transformation), recombination (general, site-specific, "illegitimate"), mapping, mutagenesis (induction and consequences), mobile genetic elements, gene expression, meiotic and mitotic segregation, allelism, position effects. BIOCHEM

215. Laboratory Rotation. (3) § F,W, Sp. Lab 9 hours.

Guthrie

A laboratory rotation course to familiarize first-year students with various approaches to research. Students are required to rotate through three different laboratories in at least two subject areas, and give an open seminar at the end of each quarter. BIOCHEM

growth and development through laboratory or clinical research programs in the department. GR DEVEL

210. Developmental Biology of the Craniofacial Complex. (2) § SS1, SS2. Prerequisite: Available for credit to graduate students in Oral Biology, dental postgraduate specialty programs, and as an elective to upper class students in Dentistry and Medicine. Lecture 1 hour. Seminar 0.5 hour. Conference 0.5 hour.

Kahn, Derynck, Vargervik, Chierici, Damsky

Lectures, seminars, and classroom discussion on the fundamental mechanisms underlying craniofacial development and the etiology, pathologenesis, and treatment of craniofacial defects. GR DEVEL

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 European society. HIST HL SC

200C. Introduction to Medical History.

(2-4) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour (optional). Term paper (optional).

Pressman

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 twentieth-century therapeutics. HIST HL SC

Course begins with the early Industrial Revolution and ends with the modern technologically intensive institution that dominates current medicine. HIST HLTH SCI

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

Pressman

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 HLTH SCI

215. Clinical Medicine Since 1750. (2-4) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Seminar 1 hour (optional). Term paper (optional).

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

Development and Aging Program, or consent of instructor. Seminar 4 hours. Six hours additional research work.

Staff

Students are required to conduct individual research project. Seminar is organized around methodological issues including reliability, validity and development of scales and measures, and specific problems related to formulation of goals of the studies and collection and analyses of data. PSYCHIATRY

231. Social Psychology of Aging. (3) § F. Prerequisite: Doctoral student and consent of instructor. Lecture 2 hours. Lab 3 hours Mullan

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. PSYCHIA-TRY

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

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

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

Human Sexuality

159. Human Sexuality. (1.5) Sp. Lecture 1.5 hours. Offered in alternate years. Offered 1996-97.

R. Day

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

Interdepartmental Studies

100. Cell & Tissue Biology. (10) F. Restriction: Permission of instructor required for all students except first-year medical students. Lecture 7 hours. Lab 4 hours. Conference 2 hours.

Colby, Calarco, Rosen

Course covers the basic principles of molecular and cell biology, as well as the microscopic organization of cells, tissues, and organs with emphasis on relationships of structure and function. The histology of endocrine and reproductive systems is covered in a separate course. ANATOMY & BIOCHEM

110. Core Clerkship in Surg Specialties. (1.5 per week) Su, F,W, Sp. Prerequisite: Third-year standing.

Maas, J. O'Donnell, J. Morris, E. Tanagho

A four-week required clerkship in the surgery specialties including Ophthalmology, Orthopaedic Surgery, Otolaryngology, and Urology. The curriculum will consist of lectures, seminars, physical diagnosis, outpatient clinical activities and, to a limited degree, procedure and surgical experience in both ambulatory and operating room areas. OTO-LARYN, OPHTHALMOL, ORTHO SURG, UROLOGY

130. Successful Dental Practice. (0-3) F. W, Sp. Prerequisite: Concurrent enrollment in CDC 139. Lecture 9 hours. Seminar 21 bours.

Bird, Centore, Jensen

Lectures and small-group discussions focus on the delivery of quality dental care in a highly ethical manner while establishing ositive interpersonal relationships, enhancing the self-esteem and well-being of the dental team and creating a financially wellmanaged business. DENT PUBL HLTH

135. Reproduction Growth & Devel. (3) E Lecture 3 hours.

Parer, Sniderman

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

140.22J. Medical Problem Solving-Nutritional Disorders. (6) W. Prerequisite: 4th-year standing. Humphreys, Baron

This is an in-depth elective to provide fourth-year medical students the opportunity to explore through overview lectures, conferences, and library research their capacity for self-guided continued learning in the basic biology underlying nutritional requirements and disorders. MEDICINE

149. Family Dental Care. (0-8) Su, F,W, Sp. Prerequisite: 4th-year standing. Artiga and Staff

The fourth-year dental student will learn advanced skills in pediatric and general restorative dentistry in oral diagnosis, treatment planning, and delivery of comprehensive lental care. Emphasis will be on the efficie

189. Dentistry for Medical Students. (3-18) F,W, Sp. Restriction: Enrollment in the third or fourth year of an accredited medical school. Mandatory for medical students enrolled in the combined UCSF Oral and Maxillofacial Surgery/MD Program Pogrel and Staff

This is a full-time clinical elective of 2-12 weeks for junior and senior medical students devoted to the diagnosis and management of problems of the oral and maxillofacial regions. ORAL & MAX SURG

Laboratory Medicine

140.01. Principles of Laboratory Medicine-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Two years of medical school. Gottfried, Ng, Hadley, Khayam-Bashi Laboratory sessions, seminars and rounds at SFGH correlate laboratory tests with clinical case studies. This course covers general principles and specific topics in chemistry, hematology, microbiology, serology, immunology and transfusion medicine. The schedule can be modified to accommodate special interests. LAB MED

140.05. Clinical Pathology-VMC. (1.5 per week) § F,W, Sp. Prerequisite: Medicine 110 or consent of instructor. Fisher, Sobenes

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

140.07. Hematology-UC. (1.5 per week) F, W, Sp.

Atwater, Corash

Students participate in daily operations of the hematology laboratory, working with a resident on either the Bone Marrow or Heme-Coag rotations evaluating current case materials, attending daily signout rounds, and attending weekly teaching conferences. LAB MED

140.08. Laboratory Medicine Microbiology. (1.5 per week) Su, F,W, Sp. Third- or

fourth-year medical students Hadley, Pulliam, Brooks, Drew Course provides practical microbiology laboratory instruction correlated with clinical infectious disease rounds. The goal is a better understanding of how to use the laboratory for infectious diseases diagnosis. The schedule can be modified to accommodate special interests in microbiology. LAB MED

140.22K. Mechanisms of Bacterial Pathogenesis. (1.5 per week) W. Fourth-year standing. Griffiss, Jarvis

This course is designed to cause students to approach bacterial infections as a dynamic interaction between living organisms rather than as a problem of identifying symptom patterns. The course will focus on the molecular strategies used by different bacteria. LAB MED

160.02. Sexually Transmitted Diseases. (2) § W. Lecture 2 hours. Palefsky, 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

160.03. Laboratory Work-up of Disease. (0.5) Sp. Second-year standing. Seminar 1 hour.

Ng Students learn to make appropriate use of laboratory tests in the evaluation of clinical problems. Case discussions are led by a variety of faculty members. LAB MED

180. Intro: Science Education and Gender. (1) F,W, Sp. Second-year standing. Prerequisite: Permission of instructor, Seminar 0.5 hour. Field work 1.5 hours.

Medicine

110. Medicine Core Clerkship-UC-SFGH-VA-MZ-VAF-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 131A-B-C and 132A-B-C. Open to UCSF students

UC Papadakis, SFGH Haber, VA Tierney, MZ Woeber, VAF/VMC Freeman

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

111. Mechanisms of Disease. (1.5 per week) Sp. Prerequisite: Fourth-year standing in medical school. Malloy, Kane

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

112. Responsibilities of Med Prac. (1.5 per week) Su, Sp. Prerequisite: Medicine 110 and Surgery 110. Restriction: All fourth-year students in School of Medicine for May session; all third-year students in School of Medicine for June session.

Course will discuss the ethical, legal, and policy issues in the clinical practice of medicine. Students are required to write a paper analyzing a case that presented ethical dilemmas. MEDICINE

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

M. Cooke, P. Braveman Interdepartmental instruction in clinical problem-solving, interviewing, medical history, ethics, organization, and financing of care. On-going relationship with a patient focused on: health promotion/education; understanding barriers to access and "compliance"; community resources; health team. Small groups, lectures, and preceptorships. MEDICINE

132A-B-C. Introduction to Clinical Medicine. (5-7-4) F,W, Sp. Prerequisite: Anatomy 100, 103: Biochemistry 100: Interdepartmental Studies 100, Medicine 131A-B-C; Microbiology 100A-B (may be taken

concurrently); Pathology 101, 102 (may be taken concurrently); Physiology 100, 101; or consent of instructor. M. Cooke

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

132D. Introduction to Clinical Medicine. (2) Sp. Prerequisite: Medicine 131A-B-C (must be taken concurrently).

Hughes, Cooke Working with a faculty preceptor over three quarters of the second year, students in the Clinical Skills Preceptorship are taught the skills of the physical examination, including techniques of the medical history, complete write-up, and oral presentations. MEDICINE

140.01. Acting Internship-UC-VA-MZ-VAF-VMC-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Completion of Medicine 110.

UC Papadakis, VA Tierney, MZ Woeber, VAF/VMC Freeman, SFGH Haber 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 neir patients are discussed. MEDICIN

140.04. Infectious Diseases-VA. (1.5 per week) Su, F, W, Sp. Prerequisite: Completion of Medicine 110 and Surgery 110. lensen

Clinical elective with inpatient and outpatient infectious diseases at VAMC. Commonly encountered general ID problems of hospitalized patients, and comprehensive outpatient management of HIV disease are stressed. Introduction to clinical microbiology and hospital epidemiology are included. MEDICINE

140.05. Clinical Cardiology-PMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of instructor. Kline

Students manage one to two patients per week, giving them direct "hands-on" clinical experience. Students are expected to participate in all cardiology conferences, ward rounds, ECG reading sessions, Echocardigraphy and Nuclear Medicine rounds. MEDICINE

140.07. Oncology-SFGH. (1.5 per week) F, W, Sp. Prerequisite: Medicine 110. Luce

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

140.08. Gastroenterology-UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110. Scharschmidt

Students, along with a second-year fellow, two first-year fellows, a medical resident and attending, serve as a member of the gastroenterology clinical service. Participate in all conferences, journal review and teaching sessions, including 'specialty clinic' (e.g., Liver, IBD clinics). MEDICINE

140.09. Clinical Cardiology-MZ. (1.5 per week) SS1, SS2, Su, F,W, Sp. Prerequisite: Medicine 110 and fourth-year standing. Consent of instructor.

Mailhot, E. Cohen, Paley

Students work up patients and follow patients through diagnostic and therapeutic procedures. There is considerable exposure to noninvasive, invasive, and interventional cardiology and post-operative cardiac care. Students participate in departmental conferences and hospital-wide conferences. MEDICINE

140.10. Pulmonary Medicine-MZ. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and 140.01 or equivalent senior ward medicine experience. Consent of instructor.

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

140.11. Hematology/Oncology-C. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110.

R. Cohen

Students evaluate and manage patients with blood coagulation and its disorders, hematologic and solid tumor malignancies. Learn the technique of bone marrow aspiration and biopsy, and the morphologic interpretation of these specimens. Attend boards, rounds, and conferences, MEDICINE

140.13. Care of the Patient with AIDS at SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Completion of core clinical clerkships. Fourth-year standing. Stansell

Supervised by the attending physician, students will participate in the management of both inpatients and outpatients with HIVrelated disease on the AIDS consult service ind 1-2 days per week in the AIDS clinic. Participation in educational conferences encouraged. MEDICINE

140.17. Medical Consultation. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110. Wasilewski, Campa

Inpatient medical consultation service with outpatient preoperative clinic. Team consists of faculty and resident. Students will be directly involved in patient evaluation and follow-up. They will be expected to read and present current literature on rounds. MEDI-CINE

140.18. Gastroenterology-VA. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and fourth-year standing. Wright

Students share consultations with GI fellows; work up patients on wards; see patients in outpatient; attend endoscopies; attend rounds and conferences. MEDICINE

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

Students share consultations with cardiology fellows; work up patients on the wards; interpret EEGs and other Holter monitor studies; attend rounds and conferences. MEDICINE

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

Hospitalized patients with a wide range of infectious diseases are evaluated and presented by students under the direct supervision of the infectious disease fellow. Students present patients at attending rounds, infectious disease conferences, and review appropriate literature on the subject. MEDICINE

140.21. Private Practice. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110: Approval of third- and fourth-year coordinator. Student must make arrangements with privatepractice physician. Papadakis

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

140.22B. Current Topics in Oncology. (6) F. Restriction: 4th-year medical students only. Humphreys, Schaufele, Luce Following the introduction of a selected novel concept in clinical or erxperimental oncology, participant-initiated library research and subsequent discussion will be emphasized as a method to keep pace with the rapid changes in oncology that will occur post-graduation. MEDICINE

140.22D. Advanced Airway Pathophysiology. (6) W. Restriction: 4th-year medical students only.

Humphreys, Mustacci, Stulbarg This course will provide an in-depth understanding of the most pressing issues and challenges that asthma, chronic bronchitis, emphysema. and cystic fibrosis present at the bedside, in the laboratory, and at the community level. The course accommodates ample time for independent study, student presentations, and small group discussions. MEDI-CINE

140.22F. Clinical Therapeutics. (6) W. Restriction: 4th-year medical students only Humphreys, Benowitz

This course emphasizes applied pathophysiology and clinical therapeutics. Case-oriented workshops will present the principles of therapeutics with application to specific therapy of common cardiovascular, respiratory, gastrointestinal, and infectious diseases as well as diabetes. MEDICINE

140.22G. Endocrine Pathophysiology. (6) W. Restriction: 4th-year medical students only.

Lingappa, Strewler, Woeber

One week each of lecture, discussion, and library research on selected topics in adrenal, thyroid, parathyroid, and lipid pathophysiology. MEDICINE

140.22N. Renal Clinical Pathophysiology. (6) Sp. Restriction: 4th-year medical students only. Humphreys

MEDICINE

delivery of care considering the family as a unit. DENT PUBL HLTH

182. Dental Implantology. (1) Su, F,W, Sp. Prerequisite: 3rd- or 4th-year dental students only. Seminar 10 hours per quarter. Finzen, Smith

A didactic elective course on dental implantology. The diagnostic, surgical, laboratory, restorative, periodontal, and maintenance phases of dental implant treatment will be presented. INTERDEPARMENTAL

187. Clinical Dental Implantology, (0.5-3) Su, F, W, Sp. Prerequisite: Must be taken concurrently with or after successful completion of IDS 182. Restriction: 4th-year dental students only Lab 10-30 hours, clinic 10-60 hours per quarter.

Finzen, Smith

A clinical elective course on dental implantology. The diagnostic, surgical, laboratory, restorative, periodontal, and maintenance phases of dental implant treatment will be presented. INTERDEPARMENTAL

Clark

Course project through the Science and Health Education Partnership of UCSF involves UCSF students working with middle school students and a middle school teacher. Methods include cooperative, constuctivist, and inquiry-based strategies, classroom management, and effective teaching strategies for girls. LAB MED

452. Cytometry & Cell Analysis. (3) W. Lecture 3 hours. Mayall

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

140.02. Off-Campus Clerkship. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and approval 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. Hematology/Oncology-UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110.

Venook

Students function as interns supervised by a fellow and resident on the Clinical Cancer Service working up patients with hematologic and solid tumor malignancies. In addition, students attend conferences, perform daily procedures, and write orders under supervision. MEDICINE

140.14. Sexually Transmitted Diseases. (1.5 per week) Su, F,W, Sp. Prerequisite: Fourth-year standing. Lab 40 hours per week. Bolan

Fourth-year medical students will be trained in the diagnosis, treatment, and management of sexually transmitted diseases in the clinical setting. MEDICINE

140.15. Continuity Care Clinic. (1) Su, F, W, Sp. Prerequisite: Medicine 110. Papadakis

Working in clinics one half-day per week over six-to-nine months. Approximately 10 positions are available: Moffitt/Long, SFGH. Mount Zion, and long-term Home Care Clinics at San Francisco's VAMC. MEDI-CINE

140.16. Hematology-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 or consent of instructor.

Embury

Students, under supervision, evaluate hematology patients in the outpatient/inpatient consultation service; review relevant clinical data; interpret bone marrow slides. Emphasis is on the diagnosis and management of patients with hemoglobinopathies, sickle cell diseases, disorders of hematopoiesis, and ab-I ---- Inian MEDICINE

The course material will be clinically casebased with a format of small group seminars with supplementary lectures emphasizing pathophysiology of renal disorders. MEDI-CINE

140.23. Endocrine Metabolism-UC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Tyrrell

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

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

Sack

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

140.25. Renal Disease-SFGH. (1.5 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. Students also attend weekly Journal Club, 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. Addison, Woeber

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

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

Students will attend rounds in the coronary care unit and receive instruction in cardiology, stressing electrocardiography; students may work in the pulmonary function laboratory and attend all teaching conferences and seminars. MEDICINE

140.28. Infectious Disease-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110. Chambers

Course includes active consultation service averaging three new consults per day. Daily patient rounds; weekly combined infectious diseases/pediatrics mini-rounds and infectious diseases intercity rounds. Two half-day infectious diseases clinics per week. Reading and library research. MEDICINE

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

Students evaluate patients on the wards and outpatient clinics; review peripheral blood smears; participate in conferences and seminars. Emphasis on patients with blood coagulation disorders, hematologic malignancies, and anemia. MEDICINE

140.30. Endocrine Metabolism-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and fourth-year standing. Schambelan

The Endocrine-Metabolic Service provides daily housestaff and fellow-supervised consultations, four weekly clinics, bi-weekly rounds, and conferences on current research. Students participate in clinical investigation of patients with endocrine disorders who are hospitalized in the General Clinical Research Center. MEDICINE

140.32. Reversing Coronary Heart Disease. (1.5 per week) SS1, SS2, F,W, Sp. Prerequisite: Completion of first two years of basic science.

Ornish

Independent study with Dean Ornish, MD, and his colleagues at the Preventive Medicine Research Institute in Sausalito. Students will learn practical and theoretical aspects of implementing a multifactorial mind/body program designed to reverse and prevent coronary heart disease. MEDICINE

140.33. Coronary Care at Moffitt/

Long. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110, fourth-year standing or consent of instructor. A four-week cardiology elective or Medicine 140:01 is also 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. Ives

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

140.35. Cardiology-SFGH. (1.5 per week) F,W, Sp. Prerequisite: Medicine 110.

Cheitlin, Rapaport

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

Students evaluate medical, surgical, gynecologic, and non-critical trauma patients under attending supervision. Attend short teaching conferences held daily, with longer departmental conferences weekly."Hands-on training such as suturing, casting and splinting, and airway managing are provided. MEDICINE

140.38. Advanced Clerkship-CCU-SFGH. (1.5 per week) Su, F,W, Sp. Prerequi-

site: Medicine 110, fourth-year standing or consent of instructor. A four-week cardiology elective or Medicine 140.01 is recommended.

Goldschlager

Students develop skills of an acting intern while working as a member of the Cardiology team at SFGH. Students become familiar with procedures, practices and protocols of the CCU, Telemetry facility, and inpatient wards, and attend all rounds and teaching conferences. MEDICINE

140.39. Pulmonary Disease-UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110. Stulbarg

Students participate fully on the inpatient Pulmonary Consult Service, interviewing, examining, presenting, and doing follow-up of their own patients. Attend weekly conferences, receive some experience with procedures (e.g., bronchoscopy), learn pulmonary function interpretation, and do directed reading relevant to their patients. MEDICINE

140.40. Gastroenterology-KP. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110. Allison, Kaufman, Udkow, Grossman As a member of the GI Consult team, student will work-up patients, observe and participate in diagnostic and therapeutic procedures, and attend all rounds and GI diversion conferences. MEDICINE

140.41. Gastroenterology-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and fourth-year standings. Cello

Students evaluate and present GI consults on patients admitted to the medical and surgical wards. Observe GI techniques, including sigmoidoscopy, colonoscopy, endoscopy, liver biopsy. Attend weekly GI and liver clinics, and conferences held in conjunction with Surgery, Pathology and Radiology. MEDICINE

140.42. Clinical Toxicology & Pharmacology-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and fourth-year standing. Olson

The Poison Control Center handles over 200 calls per day, many from physicians managing an acute poisoning or drug overdose. Students will learn to use computerized and other poison information resources; participate in discussions of a variety of acute poisonings. MEDICINE

140.45. Endocrine Metabolism-VA.

(1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and consent of instructor. Enrollment limited. Priority given to UCSF students.

Siperstein, Arnaud

An introduction to the diagnosis and treatment of endocrine-metabolism diseases. Areas covered are those endocrinopathies involving the major endocrine glands, as well as diabetes mellitus and hyperlipemias. Patients will be examined and treated in both the inpatient and outpatient services. MEDI-CINE

140.46. Pulmonary Medicine-SFGH. (1.5 per week) Su, F, W, Sp. Prerequisite: Fourth-year medical student in good standing.

Hopewell, Luce

Pulmonary disease, including clinical manifestations, basic pathophysiology, use and limitations of diagnostic studies and treatment. Experience will be gained by seeing patients on wards and through a series of ongoing conferences, ward rounds and review sessions under close faculty supervision MEDICINE

140.52. Renal Medicine-VA. (1.5 per week) SS1, SS2, Su, F,W, Sp. Prerequisite:

140.55. Acting Internship-C. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110. Limited to fourth-year students. Busch

Students, under supervision, will evaluate and share in the care of patients admitted to an acute care hospital. Experience includes history and physical examination, diagnostic and treatment planning, and writing orders and progress notes. Attend daily rounds and conferences. MEDICINE

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

Students, under supervision, perform consults on hospitalized and clinic patients. They participate in multidisciplinary geriatric assignment, and become acquainted with Geriatric Day Care, Alzheimer's Day Care, and other community programs and resources. MEDI-CINE

140.57. Cardiology-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 or consent of instructor.

Deedwania

Students see patients in the coronary care unit, wards and clinics at the University of California Teaching Facility at Fresno. They will develop and implement treatment plans with the consultant, read electrocardiograms, and attend all seminars and conferences. MEDICINE

140.58. Pulmonary Disease-VAF. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 or consent of instructor.

P. Baylor, Goebel

Students on Chest Service will have primary care responsibilities for medical inpatients under supervision of the Physician Director of the Respiratory Care Service. Instruction on topics such as the use of respirators, arterial blood gas sampling and techniques. MEDICINE

140.59. Adv Medicine Clerkship KTU-UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Fourth-year standing. Amend, Vincenti

Rotation through an active renal transplant service including clinical immunology, clinical renal pathophysiology, renal diagnosis such as X-ray, biopsy, scan. The student's experience in the care of inpatients and outpatients will encompass other internal medical problems as well. MEDICINE

140.61. Advanced Medicine Clerkship-VAF. (1.5 per week) Su, F,W, Sp. Prerequisite: Fourth-year standing. Goebel

Assignment to team with first- and secondyear resident; rounds with attending faculty four to five times weekly; attend daily noon conferences; increase skills in history-taking, physical examination, write-ups, and oral presentation. Experience in writing orders countersigned by resident. MEDICINE

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

Fitzpatrick

Emergency room experience providing acute care to a mixed inner city and middle class population. Students see medical emergencies, minor trauma, and acute problems in a variety of disciplines including gynecology, ophthalmology, ENT, and orthopaedics. Attendance at specialty conferences encouraged. MEDICINE

140.63. Advanced Medicine Clerkship-KP. (1.5 per week) Su, F,W, Sp. Siu

Fourth-year elective rotation for one month on medical wards at Kaiser Foundation Hospital in Oakland. Students will be integrated into the residency training program and will be involved in the care of hospitalized patients in an urban community prepaid health plan hospital. MEDICINE

140.64. Diagnosis of Electrocardiography -UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110. Evans

The primary course focus is diagnostic cardiography. Students interpret 12-lead electrocardiograms, learn the indications for various studies, observe these studies, and describe how they influence patient care. Students will 140.69. Cardiology-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 or consent of instructor. Serio

Participation with housestaff in patient care on CCU, ICU, medical wards, outpatient clinics. Introduction to invasive and noninvasive diagnostic procedures, techniques of management in care of hospitalized and ambulatory patients. Attend ECG interpretations, CCU rounds, consults, and teaching conferences. MEDICINE

140.71. Pulmonary Disease-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 or consent of instructor. Baylor, Lohne, Goebel, Hirasuna, van

Gundy

Evaluation and management of adult patients with respiratory diseases, supervised by housestaff and faculty, Pulmonary Medicine section. Emphasis on physical examination of chest, interpretation of X-ray, arterial blood gases, pulmonary function studies. Gain familiarity with respirators and other aspects of respiratory care. MEDICINE

140.75. Inpatient Medicine-K. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and fourth-year standing.

Feigenbaum

Acting internship at this urban community prepaid health plan hospital. Students examine patients, participate in ward rounds, and attend teaching seminars and conferences of the Department of Medicine. MEDICINE

140.77. Endocrinology/Diabetes-Fresno. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110.

Shipp, Ginier

Students gain extensive experience in care of patients with diabetes and other endocrine disease through active participation in special diabetes inpatient units, ward consultations, diabetes and endocrine clinics, and patient educational programs located at Valley Medical Center and in the community. MEDI-CINE

140.78. Critical Care Medicine-VMC. (1.5 per week) Su, F,W, Sp.

Hirasuna Students participate in the management and evaluation of critically ill patients in the Medical Intensive Care Unit. This includes the interpretation of laboratory results, blood gases and chest X-rays and the use of mechanical ventilation and hemodynamic monitoring. Supervision is by full-time faculty with senior Medicine residents. MEDI-CINE

140.79. Inpatient Medicine-STM. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110. Solari

The student, teamed with a resident, will evaluate and share in the care of patients admitted to a community based hospital. Students will take call, attend teaching rounds and conferences; will attend clinic one afternoon per week. MEDICINE

140.80. GI and Liver Diseases-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 or consent of instructor. Holmes, Arora, Peters

Students will become part of the GI-Liver team. In addition to basic patient evaluation, they will participate in the broad range of diagnostic and therapeutic endoscopic procedures. Participation in an active ambulatory clinic adds to the variety of patients seen. MEDICINE

150.01. Research in Medicine. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of faculty member in charge of student's research project and approval of third- and fourth-year coordinator.

Papadakis

Students continue previously initiated research projects under the guidance of faculty members. MEDICINE

150.03. CancerViruses. (1.5 per week) Su, F,W, Sp. Prerequisite: Basic course in microbiology.

J.A. Levy

Tissue culture techniques and animal experimentation will be used to demonstrate the role of viruses in animal malignancies and autoimmune disease. Research serves as a model system for studying similar disorders in 170.04. EKG Fundamentals-VA. (1) Su, F, W, Sp. Prerequisite: Medicine 132A-B-C. Lecture 1 hour. M. Goldman

Instruction in basic electrophysiologic principles and interpretation of electrocardiograms. MEDICINE

170.05. EKG Interpretation. (1) W. Prerequisite: Medicine 131A. Lecture 1 hour. Rapaport

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Review of physical principles of electrocardiography and clinical application of electrocardiographic interpretation. MEDICINE

170.09. Current Topics in Medical Science. (2) F,W, Sp. Seminar 2 hours. Parslow

Focus on research interests of UCSF faculty. Provides broad introduction to campus research, practice in reading and analyzing research publications. Speaker's talk includes discussion of personal background, present research, background description on research area, and discussion of future research plans. MEDICINE

170.10. Introduction to Occupational Medicine. (1) E Seminar 1 hour. Balmes

Practice of occupational medicine as related to the prevention, recognition, and treatment of disease and injuries resulting from employment. Interaction of economic, political, and social forces bearing on worker health problems. MEDICINE

170.11. Introduction to Environmental Medicine. (1) W. Seminar 1 hour. Balmes

Introductory course in health issues related to the environment. MEDICINE

170.12. Introduction to Geriatric Medicine. (1.5) W. Lecture 1.5 hours. Luxenberg

Course covers the physiology and psychology

of normal aging and health care problems of

the elderly, including functional status and

cognitive impairment. Use of medications,

health care policies, multidisciplinary geriat-

ric health care teams, and ethics are reviewed.

170.15. Art and Science of Health Ser-

training in applied health services research,

e.g., public health, medical sociology, health

This course covers issues from the design and

writing of grant proposals to choice of data,

analytic techniques, presentation of results,

publication strategies, and project manage-

tation or major project. MEDICINE

Health. (2) Sp. Seminar 2 hours.

170.18. Principles of Occupational

ment. Students should be involved in a disser-

This course presents an overview of occupa-

Medicine. (2) W. Restriction: First- and 2nd-

year preclinical medical students; priority to

2nd-year students. Lecture 1 hour. Confer-

Discuss the specialty of Emergency Medicine

and initial care of emergency patients both in

the pre-hospital phase and in the Emergency

Department. Lectures and practical sessions

initial management of trauma patients.

will cover common medical emergencies and

180. Industrial Toxicology. (2) § W. Prereq-

uisite: Consent of instructor. Lecture 2 hours.

Course provides understanding of basic prin-

ciples of toxicology as related to work envi-

ronment and workers' health. MEDICINE

180.02. Theory of Biomedical Ethics. (1-

2) §W. Prerequisite: Graduate standing and

consent of instructor. Seminar 2 hours. Paper

A brief introduction to Bioethics, followed by

a case-oriented approach to the understand-

ing and use of those basic bioethical prm-

ciples necessary to understand and resolve

in medical practice. MEDICINE

frequently encountered bioethical dilemmas

tional health, with seminars and site visits.

170.19. Introduction to Emergency

economics, preventive medicine.

vices Research. (2) E. Prerequisite: Graduate

MEDICINE

Luft

Balmes

MEDICINE

ence 1 hour.

MEDICINE

required for 2 units.

Atchley

Jewell

Gelb, Chin, Neighbor

Students see patients in consultation on wards and clinics, read electrocardiograms, improve auscultatory skills, review cases with cardiac consultant, observe cardiac procedures such as electrocardiograms and catheterizations, and attend all seminars and conferences. MEDI-CINE

140.36. Advanced Clerkship in Emergency Medicine-UC. (1.5 per week) Su, F, W, Sp. Prerequisite: Fourth-year standing. Wang

Advanced clerkship in emergency medicine with extensive hands-on instruction in procedures, decision-making, and management of acute patients. Two shifts spent with paramedics, one-half shift with the central EMS base station/dispatch.An excellent elective for students considering a career in emergency medicine. MEDICINE

Medicine 110. Pollock

A broad array of acute and chronic renal disease patients are worked up by the student under the direct supervision of the attending physicians. MEDICINE

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

L. Drew, Mintz

Clinical and laboratory experience providing integrated approach to infectious disease. Emphasis on learning techniques in diagnostic microbiology (e.g., Gram stains, bacterial and viral cultures), and correlating these findings with clinical diagnosis and patient management. Attend daily rounds; research opportunities available. MEDICINE

rotate on the cardiology consult service and attend selected conferences. MEDICINE

140.66. Internal Medicine-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Fourth-year standing.

Holmes

Students assigned to teams with first- and second-year residents, rounds with attending faculty, participation in daily conferences. Emphasis on pathophysiology of disease processes, management of acute medical problems. Refine skills in history-taking, physical examination, write-ups, presentations, techniques of diagnostic procedures MEDICINE

140.68. Infectious Disease-VMC & VAF. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110.

Libke

Management of common and unusual infectious diseases. May include use of antimicrobials in presence of impaired renal or hepatic function, treatment of infection in immunologically compromised host, etc. Participation in patient evaluation, treatment follow-up, ward rounds, conferences. Microbiology laboratory can be arranged. MEDI-CINE

man. MEDICINE

160.04. Medical Science & Clinical

Problems. (0-2) Su, F,W, Sp. Prerequisite: Must be an MD/PhD trainee in the MSTP at UCSE Conference 1-2 hours.

Parslow, Papadakis

Clinical contact is arranged with mentor for experience in ward rounds, clinic work, etc. in clinical departments with approved faculty. Student will choose mentor from list of available faculty. MSTP students are required to complete 6 units before completion of the PhD MEDICINE

160.10. Clinical Medical Ethics. (1) E Seminar 1 hour.

Lo

Introduction to clinical medical ethics through discussion of the medical literature. Active class participation and critical reading of articles will be required. Topics will include life-sustaining treatment, dilemmas regarding HIV infection, care of critically ill neonates, and allocation of resources. MEDICINE

198. Supervised Study. (1-5) Su, F,W, Sp. Prerequisite: Consent of instructor preceptor and approval of third- and fourth-year coordinator

Papadakis

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

199. Laboratory Project in Medicine. (1-6) Su, F,W, Sp. Prerequisite: Consent of instructor preceptor and approval of third- and fourth-year course director. Laboratory 3-18 hours.

Papadakis

Students will select and conduct a research project under the guidance of a member of the Department of Medicine Faculty. MEDI-CINE

Medicine

400. Medical Staff Conferences. (2) F,W, Sp

UC R.K. Root, SFGH Rapaport, VA Sleisenger

Interns and residents prepare and present case histories of patients at medical staff conferences including references to the literature, laboratory work, and special studies. Faculty members and visiting professors discuss the cases and present new developments to their respective fields. MEDICINE

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 literature, clinical demonstrations, and directed student participation. MEDICINE

402. Medical Literature Seminar. (1.5) F, W, Sp.

VA Sleisenger

Seminars on recent literature in internal medicine, with assigned reading, required reports, and evaluation of presented material by interns, residents, and faculty. MEDICINE

403. Specialty Seminar. (2) F,W, Sp. R.K. Root

Seminars are conducted in the fields of gastroenterology, hematology, cardiology, electrocardiology, endocrinology, chest diseases, psychosomatic medicine, arthritis and rheumatic diseases, infectious diseases, and radiology. Library research, occasional formal reports and patient presentations are required. MEDICINE

404. Specialty Seminar. (4) F,W, Sp. 7 SFGH H. Williams and Staff

Seminars are conducted in cardiology, hematology, gastroenterology, infectious diseases, metabolic diseases, and pathology, involving discussions, required reading, and reports. MEDICINE

405. Specialty Seminar. (4) F,W, Sp. VA Sleisenger

Seminars are conducted in cardiology, electrocardiology, hematology, gastroenterology, radiology, fluid and electrolyte balance, endocrinology and pathology, involving discussions, required reading, and reports. Elective seminars include a chest disease conference, joint medical and surgical conference, tumor board, dermatology conference, and neuropsychiatry conference. MEDICINE

406. Research Elective. (1-10) Su, F.W. Sp. UC R.K. Root, SFGH Williams, VA Sleisenger

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

407. Clinicopathological Conference. (1) F,W, Sp.

SFGH H. Williams, VA Sleisenger Residents take an active part in the presentation and discussion of problems connected with the correlation of clinical manifestations of disease with postmortem studies. Conferences include reference to the literature, clinical demonstrations, and laboratory work.

MEDICINE 408. EKG Interpretation. (2) Su, F,W, Sp. Sokolow

Seminars (individual instruction) for residents in medicine and trainees in cardiology by cardiac consultants in the interpretation of all electrocardiograms and phonocardiograms taken at UC. MEDICINE

411A. Introduction to Molecular Genetics. (4) Su. Lecture 3 hours. Conference 1

hour. Gitschier, Ganem, Parslow

A general overview of molecular genetics, aimed principally at fellows in clinical departments, MEDICINE

411B. Introduction to Cell Biology. (4) Su. Lecture 3 hours. Conference 1 hour. Kelly

A brief introduction to contemporary cell biology for clinical fellows. MEDICINE

411C. Laboratory Techniques. (3) Su. Prerequisite: Medical fellows in School of Medicine. Lab: 40 hours/week for 2 weeks Welch, Pytella

450. Clinical Medicine. (10) Su, F,W, Sp. SFGH H. Williams, UC R.K. Root Residents are responsible for the care of patients under the direction of the attending staff, and participate in student teaching. Third-year, senior and chief residents provide teaching and consultation service in the hospitals and outpatient clinics. MEDICINE

451. Clinical Medicine-MZ. (10) Su, F,W, Sp.

Woeber Residents are responsible for the care of patients under the direction of the attending staff, and participate in student teaching. Senior residents provide teaching and consultation service in the hospital and outpatient clinics. MEDICINE

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

VAF Rosenstiel

Residents are responsible for patient care under the direction of the attending staff, including history-taking, physical examinations, laboratory tests, and consultations. The chief resident, in addition, has certain responsibilities involving the residents, and consults for all other hospital services. MEDICINE

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

Crede and Staff Interns in the Primary Care Track of Internal Medicine are responsible for patient care in a multispecialty primary care clinic. Other rotations include those common to the regular Medicine Internship Program as well as related clinical services such as Dermatology, Neurology MEDICINE

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

Crede and Staff Residents in the Primary Care Track of Internal Medicine are responsible for patient care in a multi-specialty primary care clinic. Other rotations include those common to the regular Medicine Internship Program as well as related clinical services such as Dermatology, Neurology. MEDICINE

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

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 workups, laboratory tests, and consultation. MEDICINE

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

SFGH H. Williams

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

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

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

100A. Medical Immunology. (2) Sp. Prerequisite: Biochemistry 100A-B. Lecture 2 hours. Equivalent to Microbiology 121 and 190A.

W. Levinson

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

100B. Medical Microbiology. (6) F. Prerequisite: Biochemistry 100A-B. Lecture 4

hours. Lab 3 hours. Conference 1 hour. Equivalent to Microbiology 190B. W. Levinson

Pathogenesis of infection by bacteria, fungi and viruses. Essentials of diagnosis, treatment, and epidemiology of diseases. Laboratory demonstrations and exercises of essential

medical skills. Problem-solving exercises and

120. Microbiology in Pharmacy. (4) Sp. Prerequisite: Successful completion of all first-year required coursework. Lecture 3 Staff hours. Lab 3 hours.

Hoover Fundamentals of microbiology for pharmacy students with emphasis on mechanisms of disease production by bacteria, fungi, and viruses. Morphology, physiology, and immunology techniques used in laboratory diagnosis of selected bacterial diseases. Includes exercises in antibiotic susceptibility, disinfection, and sterility. MICROBIOL

150.01. Microbiology Research. (1.5 per week) Su, F,W, Sp. Prerequisite: Microbiology 100A and 100B and consent of instructor. Staff

Research in microbiology; block elective for fourth-year students. MICROBIOL

170.02. Case of the Week. (1) F. Prerequisite: Microbiology 100B concurrently. Seminar 1 hour.

W. Levinson

Infectious disease cases are discussed in a problem-solving format. MEDICINE

190A. Med Immunology-Grad Stdnts. (2) § Sp. Prerequisite: Biochemistry 100A-B. Lecture 2 hours for nine weeks. Equivalent to Microbiology 100A and 121. W. Levinson

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

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

W. Levinson

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

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

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

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

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

203. Cellular Immunology. (3) § F. Prerequisite: General knowledge of immunology and biochemistry. Lecture 3 hours. Offered in alternate years. Offered 1996-97. DeFranco, J. W. Goodman

Course covers chemical and genetic basis of immunogenicity, properties of immunocompetent cells, cell interactions in the immune system, and regulatory circuits MICROBIOL

204. Molecular and Cellular Immunology. (3) § W. Prerequisite: General knowledge of immunology. Lecture 3 hours.

DeFranco Topics to be covered: hematopoiesis, structure and genetics of immunoglobulins, lymphocyte surface molecules, T cell receptors, signal transduction, antigen presentation, MHC restriction, tolerance, T cell effector mechanisms, lymphocynes, and autoimmunity. MICROBIOL

208. Biology of Animal Virus Infection. (3) § W. Prerequisite: General knowledge of nucleic acid structure and chemistry. Lecture 3 hours. Seminar 4 hours.

Ganem, Young, Andino

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 infection, and role of viruses in malignant transformation of cells. MICROBIOL

220. Selected Topics Seminar. (1) § F,W, Sp. Seminar 1 hour.

453. Clin Neurological Surgery-VA. (10)

Residents are responsible for diagnosis and

care of patients in wards and clinics and per-

surgical procedures under supervision of the

attending staff. They also present patients at

conferences and attend seminars and rounds

490. Clin Neurological Surg-SFGH-VA.

Interns rotate through neurological surgery

staff, they are responsible for the care of pa-

tients, including history-taking, neurologic

Second-Year Coordinated Instruction-

Medicine 132A-B-C. Lecture-demonstra-

tions and section work devoted to the super-

110. Neurology-Neurosurg Core Clkshp.

Students are assigned patients for study under

supervision of attending and resident staffs.

They attend work rounds, attending rounds,

grand rounds, conferences and lecture-semi-

nars, emphasizing diagnosis and management

of common clinical problems and psychiatric

140.01A-B-C. Advanced Clinical Clerk-

ship. (1.5 per week) Su, F,W, Sp. Prerequisite:

Neurology 110 and fourth-year standing. A:

Students serve as acting interns on the inpa-

clinical rounds, seminars, and conferences is

140.02. Off-Campus Clerkship. (1.5 per

week) Su, F,W, Sp. Prerequisite: Neurology

Clinical clerkship in approved hospitals by

and the chairperson of the department.

rology 110 and consent of instructor.

special arrangement and approval of the dean

140.03. Outpatient Clinical Neurology.

(1.5 per week) Su, F,W, Sp. Prerequisite: Neu-

Senior students participate in the outpatient

general neurology and subspecialty clinics.

Students further develop neurologic history

and examination skills applicable to clinical

problems (i.e., Parkinson's disease) likely to

confront the neurologist and non-neurolo-

140.04. Child Neurology. (1.5 per week) Su, F,W, Sp. Prerequisite: Pediatrics 110,

Participation in child neurology activities,

both inpatient and outpatient, and all regu-

nervous system and diseases of the nervous

system affecting infants, children and adoles-

140.06. Advanced Neurology Clerkship-

VA. (1.5 per week) Su, F,W, Sp. Prerequisite:

Students serve as clinical clerks in the outpa-

tient clinics and on the consultation service.

Attendance at departmental clinical rounds,

seminars, and conferences is required. Prior

140.07. Neurology Clerkship-Fresno. (1.5

per week) Su, F,W, Sp. Prerequisite: Neurol-

Felmus, Margolin, Ogren

arrangements must be made. NEUROL-

Neurology 110 and consent of instructor.

Neurology Division. Study of the developing

larly scheduled conferences of the Child

Medicine 110, and Neurology 110.

tient service. Attendance at departmental

aspects of neurology. NEUROLOGY

UC Hauser, SFGH So, VA Sharp

(1.5 per week) Su, F,W, Sp. Prerequisite:

Medicine 132A-B-C. Concurrent enroll-

vised examination of patients.

ment in Psychiatry 135.

UC. B: SFGH. C:VA.

required. NEUROLOGY

110.

Hauser

NEUROLOGY

Engstrom

Mobley

F. Sharp

OGY

ogy 110.

gist. NEUROLOGY

cents. NEUROLOGY

Messing

examinations, laboratory tests, diagnostic

procedures, and consultation. NEURO

wards. Under the supervision of the attending

formance of studies and selected neuro-

at UC. NEURO SURG

(1.5 per week) Su, F,W, Sp.

Chestnut, Weinstein

SURG

Neurology

Su, F, W, Sp.

P. Weinstein

General microbiology; individual research of advanced graduate students, invited speakers and staff members. Reviews of special topics and journal articles by advanced students and faculty. MICROBIOL

221. Graduate Research Seminar. (1) § Sp. Seminar 1 hour. Staff

Seminar series in which graduate students present their thesis research. MICROBIOL

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

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

Staff For graduate students engaged in writing the

dissertation for the PhD degree. MICROBIOL

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. Gutin

The student will become a member of the housestaff, attending ward rounds, working up patients, assisting at operations, and taking night call on rotation with a resident. Limited to one student per hospital. NEURO SURG

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

Chesnut, Weinstein

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

150.01 Research in Neurosurgery. (1-5 per week) Su, F, W, Sp. Prerequisite: Consent of instructor and department. Passing grade in NB Examination Part 1.40 hours per week. Staff

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 at weekly laboratory and program project research confer-ences. NEURO SURG

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

Pitts

Su, F, W, Sp.

SURG

Pitts

R. Davis, C.B. Wilson

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

present case histories of ward patients includ-

ing laboratory work, X-ray studies, special

investigation and reference to the literature.

Discussion is led by the faculty with partici-

402. Clinicopathological Conference. (2)

Residents discuss clinicopathological aspects

of cases, and their correlation with the litera-

ond-year residents organize conferences and

participate in gross autopsies on patients from

the Neurological Surgery Service. NEURO

403. Literature Review. (1) Su, F, W, Sp.

Recent literature in neurology and neuro-

logical surgery is presented. Discussion by

members of the faculty in attendance and by

visitors from other schools interested in this

450. Clin Neurological Surgery-UC. (10)

and related fields. NEURO SURG

ture and special studies. Faculty and visitors

discuss developments in related fields. Sec-

pation by visitors. NEURO SURG

400. Staff Conference. (2) Su, F,W, Sp. Gutin Residents, under supervision, prepare and

A short, but intensive, laboratory course in modern laboratory techniques of cell and molecular biology meant to facilitate transition of medical fellows beginning their rotation in basic research laboratories. MEDI-CINE

420. Intro to Structural Biology. (3) Sp. Lecture 3 hours.

Cohen, Kuntz, Craik

-

Introduction to structural biology. Focus on understanding protein structure and how protein structure is determined. Implications of protein structure for function. MEDI-CINE

440. Postdoc Seminar in Health Economics. (4) Sp. Restricted to postdoctoral fellows in RWJ Clinical Scholars Program & NIMH-funded Clinical Sciences Research Training Program, Seminar 4 hours Henke

Provides survey of economic methods, models, and empirical findings related to the health care sector. Students will learn to use economic techniques to examine health care problems and policy options. MEDICINE

small group seminars involving clinical cases MICROBIOL

> 110. Immunology in Pharmacy. (2) Sp. Prerequisite: Biochemistry 120A-B. Required course for students in the School of Pharmacy. Lecture 2 hours.

Brodsky

Lectures on the fundamentals of immunology, drugs in hypersensitivity and immuno-suppression. MICROBIOL

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

Gross, DeFranco

MEDICINE

Comprehensive presentation of microorganisms including bacteria, fungi, viruses; fundamentals of infection and resistance, immunology, disinfection, sterilization, and antimicrobial agents. Laboratory studies and demonstrations on indigenous oral flora and applications of microbiology to dentistry.

209. Special Topics in Immunology. (2) § Sp. Conference 2 hours. Goodman

Small group tutorial in which topics and correlative reading will be selected for discussion with individual faculty members. MICROBIOL

210. Research Problems in Mycology. (1-

5) § F. Prerequisite: Microbiology 100A, 100B and 206. Lab and conference.

Halde

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

215. Laboratory Rotation. (3) § Su, F,W, Sp. Prerequisite: Consent of instructor. Lab 9 hours.

Staff

Lab research for one quarter with a departmental faculty member to familiarize new graduate students with experimental approaches to microbiological or immunological problems of current interest. MICROBIOL

Su, EW, Sp. Gutin, Wilson

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

451. Clin Neurological Surgery-SFGH. (10) Su. F.W. Sp. Chesnut

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

452. Clin Neurological Surgery-MZ. (10) Su, F, W, Sp. Restriction: Neurosurgery residents only.

Pitts, Weinstein, McCormack

Residents are responsible for the care of patients, under the direction of the attending staff, including history-taking, physical examinations, laboratory tests, and consultations, with major emphasis on the surgery of spinal disorders. NEURO SURG

Advanced students will have the opportunity to broaden and enrich their clinical neurology experience and expertise. Opportunity will be given to participate in didactic and case conference presentations. The opportunity exists for subspecialty clinical experience (e.g., behavioral neurology, neuromuscular disease). NEUROLOGY

140.08. Pain Mechanisms and Manage-

ment-UC. (1.5 per week) Su, F,W. Prerequisite: Neurology 110 and consent of instructor. Enrollment limited.

Rowbotham, Barbaro, McKay

Diagnosis, medical and surgical management of patients with chronic pain. Students will participate in conferences and rounds of the multidisciplinary pain service at UCSF's Parnassus campus. Direct patient contact will be under supervision of attending physicians (neurologists, neurosurgeons, anesthesiologists, psychiatrists). Students will learn to do sensory examinations and simple local anesthetic nerve blocks. They will learn pain management for acute post-operative patients, cancer pain, neuropathic pain, headache, low back pain. They will be expected to identify major psychological aspects of acute and chronic pain. NEUROLOGY

150.01. Neurology Research. (1.5 per week) Su, F,W, Sp. Prerequisite: Anatomy 103. Hauser

Opportunities for research in one of the departmental laboratories by arrangement with the chairperson of the department. NEU-ROLOGY

150.02. Neuropathology. (1.5 per week) F, W, Sp. Prerequisite: Anatomy 103 and Pathology 102.

R.L. Davis

Tissue pathology of diseases of the nervous system will be explored in greater depth in the postmortem room and by gross and microscopic techniques. NEUROLOGY

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

Hauser 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. Hauser and Staff

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

400. Neuroscience Seminar. (1.5 per week) Su, F,W, Sp.

Hauser, D. Greenberg, F. Sharp

Seminars covering selected subjects in the basic sciences relevant to neurology including neuroanatomy, neurochemistry, neurophysiology, and neuropathology. NEUROLOGY

401. Grand Rounds. (1) Su, F,W; Sp. Hauser

Conference includes resident preparation and presentation of patient case histories including reference to the literature, laboratory work, and special studies. Faculty members and visiting professors from other universities discuss new developments in their respective fields. NEUROLOGY

402. Neurological & Neurosurgical Path. (1) Su, F, W, Sp. R. Davis

Course involves the presentation and discussion of clinical histories and pathologic findings in selected cases of neurologic interest and histopathologic study, and discussion of surgical and postmortem specimens from neurological and neurosurgical patients. NEUROLOGY

403. Neuropathology Research. (1-10) Su, F,W, Sp. Prerequisite: Second- and thirdyear residents.

R.L. Davis

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

407. Neuroradiology. (1) F,W, Sp. Dillon

Neuroradiologic techniques and interpretations are reviewed in detail with particular emphasis on X-rays of the skull and spine, pneumoencephalography, myography and arteriography. NEUROLOGY

411. Neurology Research. (5-13) Su, F,W,

Hauser

Clinical and basic research in neurological disease. After consultation, assignments to one of the several departmental laboratories will be possible. NEUROLOGY

412. Neuropathology Research. (10) Su, F, W, Sp.

VA Sharp

Specific projects in experimental pathology of the nervous system may be undertaken by direct arrangement. Techniques include neurohistology, histologic autoradiography, and electron microscopy. NEUROLOGY

450. Clinical Neurology-UC-SFGH-VA. (10) Su, F,W, Sp. Hauser

Residents are responsible for the care of patients under the direction of the attending staff, and participate in student teaching. They serve on the inpatient, outpatient and consultation services. NEUROLOGY

453. Clinical Electroencephalography. (1.5 per week) Su, F,W, Sp. Aminoff

458. Clinical Pediatric Neurology. (1.5 per week) Su, F,W, Sp. Mobley

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

460. Clinical Neuro-Ophthalmology. (4.5) Su, F,W, Sp.

W. Hoyt

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

Neuroscience

117. Neurobiology. (6) Sp. Prerequisite: First-year Dentistry standing. Lecture 5 hours. Lab 2 hours. Conference 1 hour. Sargent, Wentworth, Christie, Steller 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 the oral cavity. STOMATOL

201. Basic Concepts in Neuroscience. (6) § F. Lecture 4 hours. Conference 2 hours L. Jan, Y.-N. Yan

An interdisciplinary introduction to fundamental aspects of nervous system function. Course emphasizes the ionic basis of neuronal signaling, neurochemistry, the cell biology of the neuron, and mechanisms of neuronal integration. PHYSIOLOGY

210. Critical Reading Skills. (2) W. Prerequisite: Approval of instructor. Conference 2 hours

Reichardt

Important papers in different areas of neuroscience will be read and critically evaluated in class discussions. The aim is to develop reading skills. PHYSIOLOGY

215. Laboratory Rotation. (4) § F,W, Sp. Prerequisite: Consent of instructor. Lab 12 hours

Reichardt

A laboratory rotation course to familiarize new departmental graduate students with various approaches to neurobiological research. PHYSIOLOGY

220. Neurobiology Seminar. (1) § F,W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour.

Lowenstein

Topic in neuroscience is selected (e.g., development, anatomy and physiology of the visual system, biochemistry of membranes, etc.) and pertinent papers from the recent literature are read and discussed. Each student must participate regularly and present one seminar per quarter. PHYSIOLOGY

222. Advanced Topics in Neurochemis-

try and Molecular Neurobiology. (3) § F. W, Sp. Lecture 1 hour. Seminar 2 hours. Mobley, Levine

Lectures and critical discussion of current research on neurotrophic factors, their receptors, and molecular basis of neuronal signal transduction. PHYSIOLOGY

223. Developmental Neurobiology. (3) §

F,W, Sp. Prerequisite: Neuroscience 201 and consent of instructor. Lecture 3 hours. Reichardt, Y-N. Jan, L. Jan, J. LaVail This course will cover important areas of nervous system development with emphasis on molecular, genetic, and cellular approaches. Much of the course will focus on recent studies using nematodes, Drosophila, leeches, and zebra fish. PHYSIOLOGY

225. Neurobiology of Disease. (3) § F,W, W. Prerequisite: Neuroscience 201 and con-

sent of instructor. Seminar 3 hours. Mobley, Fields, Rubenstein, Lowenstein, Longo

Seminar format with students reading and presenting papers in the current literature of neurobiological disease. Emphasis will be on the physiological and molecular bases of disease. PHYSIOLOGY

230. Biophysics of Membrane Excitability. (3) § F,W, Sp. Prerequisite: Neuroscience 201 & consent of instructor. Seminar 3 hours.

240. Advanced Topics in Integrative Neurobiology: The Vertebrate Retina. (3)

§ F,W, Sp. Prerequisite: Neuroscience 201 & consent of instructor. Seminar 3 hours. Steinberg, Copenhagen

Selected topics in the physiology of the vertebrate retina. Emphasis is on the main problem areas of current retinal research as studied by electrophysiological and pharmacological methods. Study of the retina following the path of signal processing from photoreceptor to outer plexiform layer, inner plexiform layer, and the ganglion cell. PHYSIOLOGY

241. The Central Visual System (3) § F. Prerequisite: Neuroscience 201 & consent of instructor. Seminar 3 hours. Stryker

Course examines organization and function of central visual system with a view toward understanding the response properties of central visual neurons, the neural connections that underlie these response properties, and the role of these neurons in perception. PHYSIOLOGY

242. Advanced Topics in Integrative Neurobiology: The Auditory System (3) § Sp. Lecture 3 hours.

Schreiner

Course will review in lectures, laboratory demonstrations, and in discussions the state of understanding the peripheral and central nervous system processes underlying hearing and speech perception. PHYSIOLOGY

243. Somatosensory Systems and Pain. (3) § F,W, Sp. Prerequisite: Neuroscience 201 and consent of instructor.

Fields, Merzenich, Levine, Ralston This is predominantly a lecture and discussion format course. The course will examine the neural basis of somatic sensation including pain and pain modulation. A general theme will be the correlation of information derived from pharmacology, anatomy, physiology, behavior and human studies. Clinical problems will be reviewed insofar as they illustrate important principles or gaps in our understanding of the neurobiology of somatosensory systems and pain. PHYSIOLOGY

244. Motor Systems in Mammals. (3) § F. Prerequisite: Neuroscience 201 and consent of instructor. Seminar 3 hours. Not offered 1996-97.

Lisberger

Through readings from the literature and background lectures by the instructor, we will survey both classical and current approaches to understanding the control of motor activity in mammals. PHYSIOLOGY

245. The Limbic System. (1.5) § F.W. Sp. Prerequisite: Neuroscience 201 or consent of instructor. Lecture 1 hour for 6 weeks. Seminar 2 hours for 6 weeks

Stryker, Malenka

Lectures and critical discussion of current research on the limbic system in the mammalian brain and its relationship to behavior. Topics include the neural bases of learning, memory, motivation, and emotion; spatial learning; the meso-limbic reward system; and synaptic plasticity. PHYSIOLOGY

246. Neuroendocrinology. (1.5) § F,W, Sp. Prerequisite: Neuroscience 201 or consent of instructor. Lecture 1 hour. Seminar 2 hours. Dallman, Weiner

Lectures and critical discussion of current research on the hypothalamus and its relationship to vegetative behaviors. Topics include the neural bases and integration of circadian rhythms, hormone secretion, feeding, drinking, and sexual behaviors. PHYSI-OLOGY

250. Research. (1-8) § Su, F,W, Sp. Prerequisite: Consent of instructor. Laboratory. Staff

PHYSIOLOGY

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

Staff For graduate students engaged in writing the dissertation for the PhD degree. PHYSIOL-OGY

Nursing

140. Integrated Sciences. (3) Su. Lecture 3

143. Effective Communication. (3) F. Lecture 3 hours.

198. Supervised Study in Nursing. (1-5) §

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SS1, SS2, F,W, Sp. Prerequisites: Consent of

Student conducts library research and does

directed reading under supervision of a fac-

ulty member with approval of the chairper-

199. Laboratory Project in Nursing. (1-

5) § SS1, SS2, F,W, Sp. Prerequisites: Consent

Student conducts a laboratory research proj-

ect under direction of a faculty member with

the approval of the chairperson of the depart-

201. Curriculum & Program Develop-

Course reviews educational principles.

program development. Students analyze,

ment. (3) § W. Prerequisites: None. Lecture 3

theory, conceptual frameworks and pragmatic

strategies for nursing curriculum/educational

critique, and develop curricula and programs

for schools of nursing/health delivery systems

including continuing education, staff devel-

202A. Theory Development in Nursing.

(3) § W. Prerequisites: Doctoral standing or

consent of instructor. Lecture 1 hour. Semi-

Critical analyses of contemporary strategies

ing, particularly as they relate to selected

of selected theoretical schools of thought.

202C. Theories & Conceptual Frame-

works. (3-4) § Sp. Prerequisites: Doctoral

Comparative study and critical analysis of

major conceptual models and theories in

nursing. Considers relationship congruency

of models to prototype theories; system, in-

theories. Examines the implication of nursing

theories and models for practice and research.

203. Consultation Theory & Process. (2-

Course provides a study of theories and con-

cepts of consultation as a facilitating process

ondary, and tertiary prevention services. Em-

phasis will be on consultation strategies. Op-

tional laboratory for theory testing. COMM

204. Contraception & Family Planning.

(1) § F,W, Sp. Prerequisites: None. Self-paced

Course is a self-paced module that provides

specialty content in the areas of contracep-

tion and family planning for the advanced

205. Issues in Family Research. (2) § W,

Sp. Prerequisites: N270, N245, or concurrent

enrollment in N245, or consent of instructor.

Seminar is taken concurrently with N245 to

analyze and incorporate interventions in

health protection and promotion particular

N245 will be made using case presentations

and other relevant learning strategies. FAM

206A. Nursing Management of Psychi-

atric Conditions in Adults. (3) § F. Prereq-

consent of instructor. Lab 3 hours. Seminar 2

Seminar is designed for graduate psychiatric

nursing students to examine and discuss vari-

ous theories and practice approaches to the

nursing management of psychiatric condi-

206B. Environmental Issues in Psychiat-

ric Rehabilitation. (3) § Sp. Prerequisites:

tions in adults. COMM HLTH SYST

None, Lecture 2 hours, Lab 3 hours,

uisites: N227 and N219 or equivalent, and

to women and families. Application from

nursing student. FAM HLTH

relevant to nurses working in primary, sec-

3) § W, Sp. Lecture 2 hours. Lab 0-3 hours.

teraction, developmental, adaptation level

for the development of nursing theory build-

nursing phenomena and an in-depth analysis

opment, and patient teaching programs.

COMM HLTH SYST

COMM HLTH SYST

standing. Lecture 3 hours.

COMM HLTH SYST

instructor. Lab 3-15 hours.

son of the department.

of instructor. Lab 3-15 hours.

Staff

Staff

hours.

H. Wilson

nar 2 hours

A. Meleis

A. Meleis

D. Oda

HLTH SYST

module.

E. Scarr

Seminar 1 hour.

I. Deloseph

HLTH

hours.

P. Underwood

S. Ziehm

Course reviews selected theories of human interaction and presents principles and techniques of effective communication as they relate to establishing and maintaining a helping relationship. Students use laboratory experience to develop skills in communication and interaction. COMM HLTH SYST

144. Nursing Care of Med-Surg Patients. (12.5) F. Prerequisites: N141, N142. Lecture 3 hours. Patient contact 28.5 hours. P. Larson

Course focuses on nursing assessment, diagnosis and care of adults with common medical-surgical conditions including problems common to the elderly. Clinical experiences are provided to allow (for development of pertinent knowledge and skills) application of content with clients. PHYSIOL NURS

145. Pathophysiology. (3) Su. Prerequisites: N141, N142. Lecture 2 hours.

C. Miaskowski

Course provides understanding of disease and its treatment as the basis for nursing assessment and intervention. Major disease entities will be explored, utilizing a conceptual organization of the content. PHYSIOL NURS

146. Parent-Child Nursing. (7.5). W. Prerequisites: N140, N141, N142, N144, N145. Lecture 4 hours. Patient contact 10.5 hours. E. Hedenkamp

This clinical course in the nursing care of children and families integrates theoretical concepts related to the management of pediatric patients in acute and ambulatory settings. Application of concepts of growth and development of the child and family is included. FAM HLTH

147. Childbearing Families. (7.5) Sp. Prerequisites: N140, N141, N142, N144, N145. Lecture 4 hours. Patient contact 10.5 hours. N. Murrell

Course focuses on biopsychological concepts forming the basis for normal childbearing events and application to clinical situations. Emphasis is on nursing assessment and management of the woman and fetus during antepartum and intrapartum periods, and new mother and infant during the first postpartum month. FAM HLTH

148. Sociocultural Issues in Health and Illness. (2) W. Prerequisites: N140, N141, N142, N144, N145. Lecture 2 hours.

S. Kaufman Course focuses on significant sociocultural

aspects of health and illness that make particular impacts on nursing practice in a variety of settings. Attention will be given to cultural diversity associated with ethnicity and social class. SOC BEH SC

149. Psych/Mental Health Nursing. (5.5) W. Prerequisites: N140, N141, N142, N143, N144, N145, N146, N147, N148. Lecture 3 hours. Patient contact 7.5 hours. S. Ziehm

Course presents theories of human behavior as they relate to function, alteration, and/or disruption of mental processes; reviews current knowledge related to nursing care, psychiatric treatment, and psychosocial rehabilitation of the identified mentally ill individual and his/her family. COMM HLTH SYST

150. Community Health Nursing. (8.5)

Sp. Prerequisites N140, N141, N142, N143,

N144, N145, N146, N147, N148. Lecture 4

Course explores application of nursing, fam-

ily, and community health theory in commu-

nity health settings, focusing on assessing,

diagnosing, planning, implementing, and

evaluating community health nursing care

with families, groups, and communities. Gen-

eral principles will be applied to specific vul-

151. Issues in Nursing. (3) Sp. Prerequisites:

nerable populations. COMM HLTH SYST

N140, N141, N142, N143, N144, N145,

Course explores major issues and trends in

contemporary nursing and health care deliv-

181. Law and the Practice of Nursing. (2)

ery as they relate to nursing practice, educa-

N146, N147, N148. Lecture 3 hours

tion, and research. FAM HLTH

hours. Patient contact 13.5 hours.

C. Portillo

B. Roberts

Residents learn interpretation of electroencephalograms under the supervision of experienced electroencephalographers. They interpret electroencephalograms on patients they have seen clinically, with individual instruction available as required. Instruction is accredited by the Board of Qualification of the American Electroencephalographic Society. NEUROLOGY

454. Clinical Electromyography. (1.5 per week) Su, F, W, Sp. Olney

Students learn the application of electromyography in the diagnosis of patients seen in the wards and in the outpatient clinic, with individual instruction as required. NEUROL-OGY

456. Clinical Neuropathology. (1.5 per week) Su, F,W, Sp.

Malamud

Residents spend three months or more performing supervised autopsies and pathologic studies of brain, nerve and muscle. NEU-ROLOGY

nsman

Course is designed to acquaint students with analytical methods used in studying excitation in nerve and muscle. Topics include: review of electrical fundamentals, LaPlace transforms, linear cable theory, thermodynamic and kinetic descriptions of electrodiffusion, voltage clamp methods, and Hodgkin-Huxley analysis of nerve excitation. PHYSI-OLOGY

231. Synaptic Mechanisms in Peripheral & CNS. (3) § F,W, Sp. Prerequisite: Neuroscience 201. Seminar 3 hours

Nicoll, Malenka, Sargent

This is primarily a reading course in which recent papers on various aspects of synaptic physiology and plasticity in the CNS will be discussed in depth. PHYSIOLOGY

hours.

M. Engler

Course focuses on microbiological concepts and chemical principles essential to nursing practice. PHYSIOL NURS

141. Pharmacology and Nursing Care.

(3) Su. Lecture 5 hours.

B. Peterson

This introductory course integrates human anatomy and physiology of the major organ systems and emphasizes the intimate relationship between structure and function. The course provides the foundation needed to understand human responses to wellness and illness. PHYSIOL NURS

142. Introduction to Professional Nursing. (11) Su. Lecture 3 hours. Patient contact 24 hours.

V. Carrieri-Kohlman

Course explores the concepts of health and illness and role of the professional nurse. Focuses on using the nursing process in care of persons across the adaptation and developmental continua. Concurrent laboratory designed to develop skills and knowledge common to the nursing care of adults. PHYSIOL NURS

§ Sp. Lecture 2 hours. D. Tennenhouse

Survey of fundamental and critical current issues in law with respect to the theory and practice of nursing. Emphasis on legal contingencies encountered in the everyday practice of nursing in both hospital and community settings. PHYSIOL NURS

187. Scientific Writing. (1) § F,W, Sp. Prerequisites: Consent of instructor. Lecture 1 hour. Enrollment limited

J. Grout

Course reviews bibliographic search methodology, the style of scientific writing, American Psychological Association (APA) editorial format, and composition of the introductory paragraph. PHYSIOL NURS

197. Group Independent Study. (1-5) SS1, SS2, F,W, Sp. Lab 3-15 hours. Staff

Students collaborate in clinical investigation and study 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

L. Chafetz

Course provides an overview of rehabilitative, residential, and interpersonal environments for the chronically or severely mentally ill. It considers properties of mental health programs, housing, and personal networks which appear to promote rehabilitation goals and overall quality of life. COMM HLTH SYST

207. HIV Complex Case Management.

(2) § W. Prerequisites: N233B (Pathophysiology of AIDS) or equivalent and/or consent of instructor, Lecture 2 hours.

G. Galzagorry

HIV-related case studies are analyzed to delineate clinical decision-making variables which include the relevant pathophysiological, research, psychological/sociological factors that impact disease expression, patient management, and outcomes. PHYSIOL NURS

Nursing

208A. Human Pathophysiology and Aging. (3) § F. Prerequisites: None. Lecture 3 hours.

M. Engler, M. Wallhagen

Course integrates and applies knowledge of aging and pathophysiological concepts/alterations in selected organs and systems as a basis for advanced practice. Content areas to be addressed include: altered cellular, neurological, and hormonal regulation. PHYSIOL NURS

208B. Human Pathophysiology and Aging. (3) § W. Prerequisites: None. Lecture 3 hours.

M. Engler, M. Wallhagen

Course integrates and applies knowledge of aging and pathophysiological concepts/alterations in selected organs and systems as a basis for advanced practice. Content areas to be addressed include: altered cardiovascular, pulmonary, and renal function. PHYSIOL NURS

209. Comparative Research Designs. (3) § F Prerequisites: Doctoral standing or by consent of instructor. Lecture 3 hours.

M. Dodd, K. Lee

Course critically analyzes the elements of qualitative and quantitative research designs set within the context of the research question to be asked and the existing knowledge in the area.

210. Information Technology and Nursing Care. (3) § F. Lecture 3 hours. Lab hours vary.

S. Henry

Course applies research from information technology and selected aspects of nursing care (diagnoses, nursing minimum data set, decision-making) in order to capture patient outcomes for program planning activities. COMM HLTH SYST

211A. Research Methods and Critique.

(4) § F.W. Prerequisites: None. Restriction: To be taken during the first or second quarter of the first year of the master's program. Lecture 4 hours. L. Reif

Course introduces research terminology and methods. Emphasis will be placed on the development of research critique skills, and on research approaches used to evaluate health problems, risk factors, and the impact of nursing interventions on service recipients and delivery systems. PHYSIOL NURS

212. Data Collection and Measurement. (3) §W. Prerequisites: N209. Lecture 3 hours. I. Norbeck, R. Slaughter

Course critically evaluates concepts underlying the validity, reliability, and appropriateness of data collection methods as a basis for their construction and use in qualitative and quantitative research.

213A. Common Problems of Cancer

Care. (3) § W. Prerequisites: None. Seminar 3 hours.

M. Dodd

Course addresses the theoretical and scientifically based clinical perspectives essential to managing common problems of the person with cancer and HIV/AIDS related malignancies. This includes nursing interventions, self-care, and ambulatory/home measures across the illness continuum of these disease states. PHYSIOL NURS

213B. Complex Cancer/AIDS Care. (3) § Sp. Prerequisites: None. Lecture 3 hours. C. Miaskowski

Course addresses the theoretical and scientific basis for management of complex clinical conditions experienced by patients with cancer and HIV/AIDS. Emphasis is on nursing management of conditions such as: spinal cord compression, sepsis, superior vena cava syndrome, and pneumocystis carinii pneumonia. PHYSIOL NURS

213C. Innovations in Cancer. (2) § E Prerequisites: None. Seminar 2 hours. C. Miaskowski

Course reviews the theoretical rationale for diagnostic and therapeutic innovations of cancer and HIV/AIDS. Research findings will be analyzed in terms of their implications 215A. Community/Health Sys Assessment. (3) § E Prerequisites: Consent of instructor. Lecture 3 hours: M. White

Course emphasizes concepts and skills in the assessment of population aggregates and the health systems that serve communities. COMM HLTH SYST

215B. Community/Health Sys Interventions. (3) §W. Lecture 3 hours. C. Portillo

Course includes analysis of theory and research-based interventions appropriate for identified health risks and available resources for clients, communities, environments, and health systems. Application issues will be explored. COMM HLTH SYST

216A. Cardiovascular Disease I. (3) § F. Prerequisites: None. Seminar 3 hours. M. Engler

Course correlates pathophysiology, clinical diagnosis, and current management of cardiovascular disorders across the illness continuum and across settings. Content areas include: cardiac diagnostics, hypertension, hyperlipidemia, atherosclerosis, and myocardial ischemia. PHYSIOL NURS

216B. Cardiovascular Disease II. (3) § W. Prerequisites: N216A or consent of instructor. Seminar 3 hours. B. Drew

Course correlates pathophysiology, clinical diagnosis, and current management of cardiovascular disorders across the illness continuum and across settings. Content areas include: revascularization procedures, valvular heart disease, cardiomyopathy, and heart failure. PHYSIOL NURS

217. Neonatal/Ped Pharmacology. (2) § F. Prerequisites: None. Lecture 2 hours. M. Lynch, P. Jackson, A. Wong

Course presents the clinical application of pharmacologic interventions commonly prescribed for healthy and sick infants and children in varied health care environments. Emphasis is placed on the integration of pharmacologic interventions as a component of advanced nursing practice. FAM HLTH

218A. Phenomena Common to the Nursing Care of Ill or Injured. (3-4) § F. Prerequisites: N276. Prior or concurrent

enrollment in physiology or consent of instructor. Lecture 1 hour. Seminar 2 hours. Lab optional 3 hours for 4 units. **N. Stotts**

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

218C. Current Therapeutics. (1-5) § F. Prerequisites: Physiology, N218A and N218B. Seminar 1-5 hours.

N. Stotts Course investigates the theoretical basis of

selected therapies commonly used with the ill or injured. Therapeutic aspects of interventions as well as side effects will be explored. Recent research will be used as the basis for discussion. PHYSIOL NURS

218.05B. Concepts in Oncology Nursing. (2) § W. Prerequisites: N218A. Lab 2 hours, Seminar 1 hour.

C. Miaskowski

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

218.06B. Concepts in Critical Care Nursing. (3) § W. Prerequisites: N218A. Seminar 3 hours.

K. Puntillo 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 **221. Theory in Advanced Practice Nursing.** (2) § F, Sp. Prerequisites: None. Lecture 2 hours.

P. Benner, A. Meleis

Course provides an introduction to critical thinking about the discipline of nursing. Comparative analyses of frameworks to critique competing theoretical approaches to nursing practice are presented. Methods for the development, testing, and implementation of practice theories are discussed. PHYSIOL NURS

222A. Principles of Nurse Midwifery. (4) § F.W. Prerequisites: Enrollment in Nurse-Midwifery specialty. Lecture 3 hours. Lab 3

hours.

L. Ennis, D. Anderson Course critically analyzes scientific principles underlying selected obstetric and gynecologic diagnostic and therapeutic procedures in the management of health care of women throughout the childbearing cycle. FAM HLTH–UCSD

222B. Nurse Midwifery Management. (4)

§ W, Sp. Prerequisites: Enrollment in Nurse-Midwifery specialty. Lecture 4 hours. **S. Leibel, V. Lops** Course expands the theoretical knowledge base of the normal physiology of pregnancy.

base of the normal physiology of pregnancy. Emphasis is placed on the intrapartal period with facilitation of normal processes and patient teaching. FAM HLTH– UCSD

222C. Complex Probs in Nurse Midwifery. (4) § Sp. Prerequisites: Enrollment in Nurse-Midwifery specialty. Lecture 4 hours. V. Lops, L. Ennis

Course explores the theoretical concepts and principles applied to the management of pathophysiological and psychosocial issues complicating the birthing process. Issues of professional practice, adjustment to primary care role, and medical collaboration and consultation are considered. FAM HLTH– UCSD

223. Mental Health and Aging. (3) § F.W., Sp. Prerequisites: Consent of instructor. Lecture 3 hours. C. Deitrich

Course focuses on assessment and management of common mental health problems of the older adult. Factors contributing to mental health or illness, adaptive behaviors, specific psychopathologies, and the similarity of presenting features of physical and mental illness are explored. PHYSIOL NURS

224. Neonatal/Ped Ethical Issues. (2) §W. Prerequisites: None. Lecture 2 hours.

M. Lynch, I. Martinson Course uses ethical theories and principles to explore conflict resolution in chronic, acute, and primary health care for infants, children, and adolescents. FAM HLTH

225. Cardiac Rhythm: Theory & Analysis. (3) § Sp. Prerequisites: Consent of instructor. Lecture 3 hours. B. Drew

Cardiac electrophysiology in normal and pathological states and the scientific base for nursing's response to cardiac arrhythmias. Content includes: theory and research on the mechanisms, diagnosis, electrocardiographic monitoring, treatment of cardiac arrhythmias, and use of the electrocardiogram for nursing research. PHYSIOL NURS

226. Managed Care: Clinical Implica-

tions. (1) § Sp. Prerequisites: Concurrent enrollment in S222 (Health Care Economics & Policy). Seminar 1 hour. N. Stotts

Course examines the impact of managed care systems on patient care services across health care settings. Emphasis will be placed on the roles and functions of clinical nurse specialists working with aggregates of patients/clients in managed care systems. PHYSIOL NURS

227A. Theories of Major Psych Conditions. (4) § F.W. Prerequisites: Consent of instructor. Seminar 4 hours. L. Chafetz

Course reviews major psychiatric conditions, outlined by the DSM-III-R, explores sociocultural, psychological, and biological theories as dimensions in understanding the etiology, onset, course, treatment, nursing care, and outcome of selected conditions. COMM HLTH SYST **229. Philosophy of Nursing Science.** (3) § F Prerequisites: Doctoral standing or consent of the instructor. Lecture 2 hours. Seminar 1 hour.

P. Benner

Contemporary philosophic viewpoints on the nature of nursing science, addressing natural science, integrative science, and human science traditions and scientific integrity. PHYSIOL NURS

230. Measuring Outcomes of Health Care. (3) § Sp. Prerequisites: None. Lecture 3 hours.

W. Holzemer

Course presents current approaches and methods for clinical effectiveness and outcomes evaluation. The influence of patient, provider, and organizational factors on clinical effectiveness and outcomes evaluation are critically analyzed. COMM HLTH SYST

230A. Quality Assurance. (3) § F. Lecture 3 hours.

S. Henry

Course critically reviews strategies to design, monitor, and evaluate quality assurance programs. Theoretical linkages between QA and evaluation research are presented. COMM HLTH SYST

230B. Human Resources Development. (3) § W. Lecture 3 hours S. Henry

Strategies to design, implement, and evaluate human resource development programs are critically reviewed. Theoretical linkages among QA, human resource development, and evaluation research are presented. COMM HLTH SYST

231. Issues in Nurse-Midwifery Practice. (3) § Sp. Prerequisites: Enrollment in the

midwifery program at UCSF School of Nursing. Seminar 3 hours.

J. DeJoseph, L. Ennis

Seminar focuses on a critical analysis of current issues in midwifery, including the context of practice, health policy, and patient education. FAM HLTH

232. Clinical Pharmacology. (1-2). § Sp. Prerequisites: Consent of instructor. Lecture 1-2 hours.

S. Echaves

Course focuses on clinical application of pharmacology in the management of patients, including frequently prescribed drugs for the treatment of chronic diseases and minor acute illnesses across the life span. COMM HLTH SYST

233A. AIDS Overview and Prev Strategies. (3) § F. Prerequisites: None. Lecture 3 hours.

C. Portillo

Course provides an overview of the AIDS epidemic and prevention of AIDS-prevention theories and ethical dilemmas are discussed. Emphasis is on prevention issues for different target populations, such as health care worker, injection drug users (IDUs), women, and children. COMM HLTH SYST

233B. Pathophysiology of HIV/AIDS. (3) § W. Prerequisites: None. Lecture 3 hours. M. Dodd, A. Hughes

Course prepares nurses to provide scientific and empirically based care to HIV patients. Concepts related to HIV, virology, immunology, infectious diseases, oncology, and symptomatology are presented. Case studies used to provide exemplars and models of nursing care of persons with HIV/AIDS. PHYSIOL NURS

233C. Issues in Hospice Care. (3) § Sp.

Prerequisites: Consent of instructor. Lecture 3 hours.

I. Martinson

Course explores history, function, and models of hospice care. Supportive physical/psychosocial nursing interventions to promote symptom control and family coping during end-stage of life are covered with emphasis on AIDS. Research, legal, ethical issues and nursing implications are discussed. FAM HLTH

234. Program Development and Man-

236A. Nurse Anesthesia Pharmacology I. (3) § Su. Prerequisites: Admission to the

Nurse Anesthesia Specialty and N211A, N275A, N276, N211.09, N221.02, N275B, N239A, N241D, N407.02. Lecture 3 hours. K. Karp

Course examines basic principles of pharma-

acologic agents in anesthesia nursing. Focus is

cokinetics and pharmacodynamics and ap-

plies them to administration of key pharm-

on structural properties and physiological

responses to intravenous induction agents,

gases. PHYSIOL NURS

N407.03. Lecture 3 hours.

K. Karp

Lecture 3 hours.

K. Karp

L. Ennis

HLTH

ture 3 hours.

C. Kennedy

Lecture 2 hours.

S. Kools

FAM HLTH

K. Karp

Lecture 2 hours.

K. Karp

volatile inhalational anesthetics, and carrier

236B. Nurse Anesthesia Pharmacology

N275A, N276, N211.09, N221.02, N275B.

Course examines pharmacology and thera-

peutics of major adjuncts employed in the

anesthetic process. Emphasis on analysis of

physiologic response patterns and periopera-

tive clinical nursing management of the sur-

236C. Nurse Anesthesia Pharmacology

N275A, N276, N211.09, N221.02, N275B,

N239A, N241D, N407.02, N266, N407.03,

N261B, N239B, N407.04, N236A, N236B.

Course examines pharmacology and thera-

thesia process. Emphasis is on analysis of

gical patient. PHYSIOL NURS

ture 2-3 hours. Lab 3 hours.

peutics of commonly used agents in the anes-

physiologic response patterns and periopera-

tive clinical nursing management of the sur-

237. Health Assessment through Life. (3-

4) § F, Sp. Prerequisites: Department of Family

Health Care Nursing students. Approval by

Course presents theoretical principles of

health assessment throughout the life cycle.

data gathering and data analysis essential to

groups. Laboratory experience provides ap-

238A. Infant & Child Development. (3) §

F. Prerequisites: Consent of instructor. Lec-

Course covers major theories and research

cognitive development of the child from

birth through school age. FAM HLTH

findings dealing with social, emotional, and

238B. Adolescent Development. (2) §W.

Course explores relevant theory, literature,

and research findings dealing with normal

development during the adolescent period.

239A. Basic Anesthesia Nursing. (5) § Sp.

Prerequisites: Admission to the Nurse Anes-

thesia Specialty and N211A, N275A, N276,

N211.09, N221.02, N275B. Lecture 5 hours.

Course provides instruction in basic prin-

ciples of anesthesia nursing. Emphasis is on

physical assessment and patient evaluation

through trending and analysis of human re-

ing modalities, as a reflection of dynamic

sponse patterns observed in various monitor-

physiologic functioning. PHYSIOL NURS

239B. Anesthesia for Special Practice. (2)

§ Sp. Prerequisites: Admission to the Nurse

Anesthesia Specialty and N211A, N275A,

N276, N211.09, N221.02, N275B, N239A,

N241D, N407.02, N236A, N266, N407.03.

of pediatric and obstetric patients and com-

mon pathophysiologic conditions as the basis

Analysis of the anatomy and physiology

plication and integration of theory. FAM

comprehensive health assessment of all

Areas to be covered include methodologies of

F.O.R. Concurrent practicum required. Lec-

III. (3) § W. Prerequisites: Admission to the

Nurse Anesthesia Specialty and N211A,

gical patient. PHYSIOL NURS

N239A, N241D, N407.02, N236A, N266,

II. (3) § Su. Prerequisites: Admission to the

Nurse Anesthesia Specialty and N211A,

for nursing practice and patient care. PHYSIOL NURS

214A. Community-Based Long-Term Care. (1-2) § Sp. Prerequisites: S222 (taken prior to or concurrent with course). Seminar 1 hour. Optional field work 3 hours. **L. Reif**

Course analyzes empirical research and theory dealing with noninstitutional approaches to long-term care. Examination of patient characteristics and needs, models of service delivery, factors affecting service utilization, and nurses' roles in provision and management of community-based long-term care. PHYSIOL NURS

214B. Institutional Care of the Aged. (1-2) §W.Prerequisites: None. Seminar 1 hour. Optional field work 3 hours.

J. Kayser-Jones

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Course uses a theoretical, historical, and cross-cultural approach to focus on issues, problems, and trends in institutional care of the elderly. Research studies will be discussed and analyzed, and the health professionals' role in providing care will be explored. PHYSIOL NURS

219. Psychiatric Assessment. (2-3) §W. Lecture 2 hours. Lab 3 hours (optional). **H. Wilson**

Course uses clinical material in the critical examination of standard psychiatric diagnoses. Emphasis will be on the utility of assessment tools such as the mental status examination and the psychiatric history across diverse clinical specialties and the life span. COMM HLTH SYST

220.01. Adv Sem in Nursing Research.

(3) § F,W, Sp. Prerequisites: Successful completion of the qualifying examination and/or consent of instructor. Seminar 3 hours. Staff

This seminar guides doctoral students in the design and conduct of research in specialty areas in cross-cultural and international nursing and mental health and community nursing. COMM HLTH SYST.

220.02. Adv Sem in Nursing Research.

(3) § E Prerequisites: Graduate nursing standing and completion of at least one research methods course. Restriction: Second-year graduate standing. Seminar 3 hours.

J. DeJoseph

A seminar which guides students in the design and conduct of research in specialty areas in family health care nursing. FAM HLTH

227B. Theories of Major Psych Conditions. (4) § Sp. Prerequisites: Consent of

instructor (N227A). Seminar 4 hours. L. Chafetz

Course reviews major psychiatric conditions, outlined by the DSM-III-R, explores sociocultural, psychological, and biological theories as dimensions in understanding the etiology, onset, course, treatment, nursing care, and outcome of selected conditions. COMM HLTH SYST

228. Concepts in Nursing Practice. (2) §

W. Prerequisites: None. Lecture 2 hours. V. Carrieri-Kohlman

Course examines selected clinical concepts from their scientific and theoretical basis. Theoretical issues related to the application of the concepts across settings and life span will be addressed. Students will be introduced to a process of concepts analysis. PHYSIOL NURS agement. (3) § W. Prerequisites: None. Lecture 3 hours.

Staff

Course provides content on program planning and financial analysis. Consideration is given to translating this knowledge and skills for clinical nurse specialists to utilize in a changing health care environment.

235A. Child Mental Health Assessment. (2) § F. Lecture 2 hours. S. Weiss

Course discusses assessment approach and diagnostic criteria for mental health problems occurring from infancy through adolescence. Child mental health status will be assessed across a spectrum of disorders through case studies. COMM HLTH SYST

235B. Child Mental Health Counseling

II. (2) § W. Prerequisites: N235A. Seminar 2 hours.

S. Weiss

Course covers cognitive, behavioral, and gestalt theories of child mental health counseling. Theories of group counseling will also be examined, including methods based on play, activity, and interview. COMM HLTH SYST use of various anesthetic techniques in these populations will be evaluated. PHYSIOL NURS

239C. Advanced Anesthesia. (3) § Su. Prerequisites: Admission to the Nurse Anesthesia Specialty and N211A, N275A, N276, N211.09, N221.02, N275B, N239A, N241D, N407.02, N261, N266, N407.03, N261, N239B, N407.04. Lecture 3 hours. **K. Karp**

Analysis of the effects of aging, common acute and chronic illnesses, and major systemic pathology of body systems as the basis for advanced nurse anesthesia clinical practice. Content includes examination of strengths and limitations of inhalational, local, and regional anesthesia. PHYSIOL NURS

240A. Family Primary Care I. (5) § Sp. Prerequisites: Enrollment in Family Nurse Practitioner Program and N237. Lecture 5 hours.

Staff

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. Prerequisites: N240A. Lecture 4-5 hours. Staff

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) § Sp. Prerequisites: N240AB. Lecture 4-5 hours.

S. Pickwell

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

241. Leadership in Advanced Practice. (2) § W. Prerequisites: None. Lecture 2 hours. J. De Joseph

Course provides students the opportunity to define the social, political, legal, legislative, regulatory, and organizational factors that influence advanced nursing practice across practice settings. FAM HLTH

241A. Role Development in Primary

Care. (2) § W. Prerequisites: Concurrent primary care clinical residency or consent of the instructor. Lecture 2 hours J. Saxe

Course offers the student nurse practitioner

the opportunity to discover strategies for promoting role development and advancing the nursing profession in the primary care area. COMM HLTH SYST

241B. Role Development in Primary

Care. (2) § F. Prerequisites: Consent of instructor and concurrent enrollment in primary care clinical residency. Lecture 2 hours J. Saxe

Course offers the student nurse practitioner the opportunity to discover strategies for promoting role development and advancing the nursing profession in the primary health care arena. INTERDEPARTMENTAL

241C. Collaborative Role Development. (1) § W. Prerequisites: Successful completion of N241B (Role Development in Primary Care) and concurrent primary care clinical residency. Lecture 2 hours every other week I. Saxe

Bi-weekly seminars deal with critical analyses 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/ professional issues. COMM HLTH SYST

241D. Professional Aspects of Nurse

Anesthesia. (5) § Sp. Prerequisites: Admission to the Nurse Anesthesia Specialty and N211A, N275A, N276, N211.09, N221.02, N275B, N239A. Seminar 5 hours. K. Karp

Seminar explores diverse professional issues in nurse anesthesia practice. Historical development of nurse anesthesia, prescriptive authority, role in health care reform, relationships with other health practitioners, ethical issues, and key legal concepts specific to advanced anesthesia nursing practice is emphasized. PHYSIOL NURS

242B. Care of Acutely Ill Older Adults. (3) § F. Prerequisites: N257 (Biology of Aging) or consent of instructor. Seminar 3 hours.

M. Wallhagen

Course addresses major phenomena common in the acutely ill older adult and focuses on the scientific basis for nursing management, the role of the multidisciplinary team in case management, and ethical issues that influence decision-making PHYSIOL NURS

243.01. Family Therapies (3) § Sp. 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 psychoeducation. COMM HLTH SYST

243.02. Trends in Group Psychother

245.02 Seminar: Family/Women's Primary Care. (1) §W. Prerequisites: N270, N245, or concurrent enrollment in N245, or consent of instructor. Seminar 1 hour.

L. Lommel, B. Hollinger, A. Burns Seminar is taken concurrently with N245 to analyze and incorporate interventions in health protection and promotion particular to women and families. Application from N245 will be made using case presentations and other relevant learning strategies. FAM HLTH

246. Symptom Assessment & Management. (3) § Sp. Prerequisites: N270, N245. Lecture 3 hours.

L. Lommel

Course introduces students to signs and symptoms of illness across the life span that are commonly encountered in ambulatory care. Symptoms and signs will be analyzed using a clinical decision-making model. FAM HLTH

246.01. Seminar in Adult Primary Care. (1) § Sp. Seminar 1 hour. G. Collins-Bride, B. Burgel, D. Guyot, C.

Kelber, K. O'Mara Seminar is taken concurrently with N246 and provides the specialty content necessary for adult primary care nurse practitioners. Application from N246 lectures will be made to the specialty area using case presentations and other relevant learning strategies. COMM HLTH SYST

246.02. Seminar: Family/Women's Pri-

mary Care. (1) § Sp. Prerequisites: N270, N245, N245.02, and concurrent enrollment in N246, or consent of instructor. Seminar 1 hour.

S. Faust, S. Shea, A. Burns

Seminar is taken concurrently with N246 and provides specialty content necessary for family and women's primary care nurse practitioners. Application from N246 lectures will be made using case presentations and other relevant learning strategies. FAM HLTH

246.03. Seminar in Gerontological Primary Care. (1) § Sp. Seminar 1 hour D. Guyot

Seminar is taken concurrently with N246 and provides the specialty content necessary for gerontological primary care nurse practitioners. Application from N246 lectures will be made to the specialty area using case presentations and other relevant learning strategies. PHYSIOL NURS

246.04 Seminar in Pediatric Primary Care. (1) § Sp. Seminar 1 hour. P. Jackson

Seminar is taken concurrently with N246 and provides the specialty content necessary for pediatric primary care nurse practitioners Application from N246 lectures will be made to the specialty area using case presentations and other relevant learning strategies. FAM HLTH

247. PHCIII: Complex Health Problems and Management. (3) § F. Prerequisites: N270, N245, N246, or consent of instructor. Lecture 3 hours.

D. Null

Course introduces the more complex health problems encountered in primary care. Client's clinical presentation, underlying causes and appropriate treatment are discussed. Separate specialty track seminars permit elaboration of problems as they occur in the specialty. COMM HLTH SYST

247.01. Seminar in Adult Primary Care. (1) § F. Seminar 1 hour. S. Janson

Seminar is taken concurrently with N247 and provides the specialty content necessary for adult primary care nurse practitioners. Application from N247 lectures will be made to the specialty area using case presentations and other relevant learning strategies. COMM HLTH SYST

247.02A. Seminar: Family/Women's Primary Care. (1) § F. Prerequisites: N270,

N245, N245.02, N246, N246.02, concurrent enrollment in N247, or consent of instructor. Seminar 1 hour. S. Shea, E. Scarr, A. Burns

Seminar is taken concurrently with N247 and provides specialty content necessary for family and women's primary care nurse practitioners. Application from N247 lectures will be made to the specialty areas using case presentations and other relevant learning strategies. FAM HLTH

249. Independent Study. (1-5) § F,W, Sp. Prerequisites: Consent of instructor. Lecture 1-5 hours

Staff

Student undertakes an individual study with emphasis on special problems in nursing. Students may select an area of study which is related to his/her area of interest or future goals. INTERDEPARTMENTAL

250. Research. (1-8) § F,W, Sp. Prerequisites: Admission to doctoral study and consent of instructor Staff

Course offers students an opportunity to engage in research with selected faculty. IN-TERDEPARTMENTAL

250.01. Research Rotation. (1-6) § Su, F, W, Sp. Prerequisites: Completion of first year of doctoral study and consent of adviser. Lab 3-18 hours. Staff

The student will participate in ongoing faculty research. This experience will contribute to the student's methodological or substantive expertise. INTERDEPARTMENTAL

250.02 Clinical Research Rotation. (1-6) § Su, F,W, Sp. Prerequisites: Completion of first year of doctoral study and consent of adviser. Lab 3-18 hours. Staff

The student will participate in ongoing faculty clinical research. This experience will contribute to the student's methodological or substantive expertise. INTERDEPART-MENTAL

251. Advances in Vascular Nursing. (3) § SS1, SS2, Su, F,W, Sp. Prerequisites: Consent of instructor. Learning modules 10 hours. C. Hubner

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. PHYSIOL NURS

252. Current Concepts in Home Care. (3) § F. Prerequisites: None. Lecture 3 hours. C. Portillo

Course provides historical perspective on home care and introduces the current home care environment. Current concepts related to the care of the individual are introduced using the Georgetown Home Health Care Classification System. COMM HLTH SYST

253. Innovative Subsystems of Nursing Care. (3) § W. Restriction: Doctoral levelsuggested DNS. Seminar 3 hours. I. Martinson

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 HLTH

254. Fetal-Newborn Development. (2) § F. Lecture 2 hours.

M. Lynch

Course is a study of body system development during embryonic, fetal, and postnatal growth. Emphasis is on normal anatomical and physiologic development, critical periods of developmental alterations, and transitions for extra-uterine adaptation. Implications for nursing practice are explored. FAM HLTH

255.03A. Common Pediatric Illness

Management. (2) § F. Prerequisites: Consent of instructor. Lecture 2 hours.

P. Jackson

Course presents theories, concepts, and knowledge for comprehensive assessment and management of common pediatric illnesses. Emphasizes the most common acute conditions managed by a PNP in collaboration with pediatrician. Integrates history taking, physical findings, diagnosis, and management. FAM HLTH

255.03B. Common Pediatric Illness Management. (3) §W. Lecture 3 hours. K. Duderstadt

Course presents theories, concepts, and knowledge for comprehensive care of children with common pediatric illness. It emphasizes common acute conditions managed by a clinical nurse specialist in Pediatric Primary Care in collaboration with a physician. FAM HLTH

258A. Feminist Perspectives on Women's Health. (3) § F. Prerequisites: None. Lecture 2 hours. Library research 3 hours.

264. Foundations of Nursing Knowledge. (3) § F. Prerequisites: Doctoral student

or consent of instructor. Seminar 3 hours

Course analyzes historical trends in theoreti-

cal nursing in the U.S. and in selected other

epistemological approaches that influenced

the development and testing of theoretical knowledge in nursing. COMM HLTH

265. Cancer Prevention/Early Detec-

In-depth examination of breast, prostate,

lung, and colorectal cancer prevention and

munity programs, populations at risk, and

detection projects. PHYSIOL NURS

behavioral models to guide prevention and

266A. Nurse Anesthesia Organic & Bio-

chemistry. (2) § F. Prerequisites: None. Lec-

Course examines human responses of the

surgical patient to anesthesia. Emphasis is on

organic and biochemistry as the theoretical

266B. Nurse Anesthesia Physics. (3) § W.

Course examines human responses of the

physics as the theoretical foundation for

practice. PHYSIOL NURS

surgical patient to anesthesia. Emphasis is on

physiologic responses and anesthesia nursing

267. Ethical Dilemmas & Nursing Prac.

(3) § W. Lecture 2 hours. Library research 3

Course explores selected ethical theories,

practice. Focus is on selected case studies

tice, nursing research, and health policy.

ethical dilemmas in health care and nursing

depicting ethical dilemmas in nursing prac-

268. Psychiatric Liaison Nursing. (2) § F.

W, Sp. Prerequisites: N211A and enrollment

in the child or adult psychiatric nursing spe-

cialty tracks, Department of Community

Health Systems, or consent of instructor.

Course reviews the emerging literature on

psychiatric liaison nursing. Reports on roles

of psychiatric nurses in medical settings will

be critically analyzed, as well as clinical stud-

ies from the area of general hospital psychia-

try. Comparative models of practice are dis-

269A. Human Health & Nursing Sys-

or consent of instructor. Restriction: PhD

students or consent of instructor. Seminar 3

Course analyzes theoretical foundations and

research issues underlying specific content

areas in nursing science. Research in each

specific content area is analyzed from the

perspectives of the dimensions of nursing

knowledge (health, illness, environment,

therapeutics) and various units of analysis.

269B. Human Health & Nursing Sys-

Course continues analysis of theoretical

tems. (3) § Sp. Prerequisites: N269A. Seminar

foundations underlying specific content areas

in nursing science. In addition, specific issues

related to conducting interdisciplinary re-

search, working with vulnerable groups, the

use of technology in research and dissemina-

270. Advanced Health Assessment. (2) § F,

tion of research will be addressed. FAM

W. Prerequisites: None. Lecture 2 hours.

Course introduces assessment concepts and

skills to determine the health status of clients

across the life span. Focuses on the collection

tems. (3) § W. Prerequisites: N229 and N264

cussed. COMM HLTH SYST

foundation for physiologic responses and

anesthesia nursing practice. PHYSIOL

Prerequisites: None. Lecture 3 hours

the following early detection issues: Equity in

access to services, criteria for evaluating com-

tion. (2) § W. Prerequisites: None. Seminar 2

countries, and a critique of the dominant

A. Meleis

SYST

hours.

N. Facione

ture 2 hours

I. Martin

NURS

K. Karp

hours.

P. Benner

PHYSIOL NURS

Lecture 2 hours.

L. Chafetz

hours

K. Lee

FAM HLTH

3 hours.

K. Lee

HLTH

C. Deitrich

J. DeJoseph

Course introduces feminist theories to assist the student to critically analyze selected topics in contemporary literature about women's health across the life span. Women's issues are considered in both local and global environments. FAM HLTH

258B. Family/Childbearing Phenomena. (3) § W. Seminar 2 hours. Project 3 hours. K. Lee

Course studies perinatal phenomena identified in national reports for their theoretical, practice, and research implications. Phenomena include prevention of low birthweight infants, contemporary stressors for childbearing families, cognitive model to assess cultural diversity in perinatal health care, and related legislation. FAM HLTH

258C. Family/Childbearing Theory. (3) \S Sp. Prerequisites: N 258A and N258B. Seminar 3 hours. V. Lops

Clinical seminar addresses psychosocial and pathophysiologic issues of pregnancy, childbirth, parenting, and family/marital relationships during childbearing; focus on self-care practices for family; emphasis on midwife as facilitator of adaptation. FAM HLTH

259.01. Women's Reproductive Health. (1-5) § F. Lecture 1-5 hours.

L. Lommel

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 HLTH

259.02. Special Problems in Women's Health. (1-4) & W. Prerequisites: Consent of instructor. Lecture 1-4 hours. Seminar optional 1 hour.

Staff

Emphasis is on theory and management of bio-psychosocial deviations from normal in women before and during pregnancy, interconceptional period, and climacteric. Emphasis placed on critical analysis of research in metabolic, infectious, and functional disorders including collaborative manage ment of women manifesting these disorders. FAM HLTH

259.03. Advanced Women's Health Seminar. (2) § Sp. Prerequisites: Consent of instructor. Lecture 2 hours

P. Bernal de Pheils Course explores theoretical and management aspects of selected phenomena in women's health applicable to the nurse practitioner role. FAM HLTH

260C. Int/Cross-Cultural Nsg Issues. (3) § F,W, Sp. Prerequisites: Consent of instructor. Seminar 3 hours.

J. Lipson

Seminar examines selected international nursing issues including primary care, nursing education and nursing service, women's roles, and patients' rights. COMM HLTH SYST

261. Mental Health Nursing and the

Law. (2) §W, Sp. Prerequisites: Enrollment in MS program in Psychiatric Nursing or consent of instructor. Lecture 2 hours. G. Gresham

Course reviews history and development of mental health legislation and decisional law in the U.S. and California. Explores current mental health laws as they relate to and influence the practice of psychiatric nursing in the public and private sectors. COMM HLTH SYST

262A. Women's Health Roles/Issues I.

(1) § F,W. Prerequisites: Enrollment in Women's Health Nurse Practitioner Program or consent of instructor. Seminar 2 hours (every other week). J. DeJoseph, J. Flanagan, D. Taylor,

Seminar focuses on critical analysis of issues

influencing role transition, role enactment,

L. Ennis, L. Lommel

Modalities. (2) § W, Sp. Prerequisites: Psychiatric/Mental Health students or consent of instructor. Seminar 2 hours.

S. Weiss

Students will examine and discuss theories and practice of various group modalities in current use. COMM HLTH SYST

245. Health Protection & Promotion. (2) §W. Prerequisites: None. Lecture 2 hours. J. Saxe

Course emphasizes principles of individual health protection and promotion across the life span in advanced nursing practice. The examination of models of disease prevention, and health promotion for individual wellness in the context of the family community and culture is emphasized. COMM HLTH SYST

245.01. Seminar in Adult Primary Care.

(1) § W. Seminar 1 hour. C. Cutter

Seminar is taken concurrently with N245 PHC I and provides the specialty content necessary for adult primary care nurse practitioners. Application from PHC I lectures will be made to the specialty area using case presentations and other relevant learning strategies. COMM HLTH SYST

247.03. Seminar in Gerontological Primary Care. (1) § F. Seminar 1 hour. C. Deitrich

Seminar is taken concurrently with N247 and provides the specialty content necessary for gerontological primary care nurse practitioners. Application from N247 lectures will be made to the specialty area using case presentations and other relevant learning strategies. PHYSIOL NURS

248. Group Independent Study. (1-6) § F. W, Sp. Prerequisites: Consent of instructor. Lecture 1-6 hours.

Staff

Students 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. INTERDEPARTMEN-TAL

256. Transitions & Health. (3) & W. Sp. Lecture 3 hours. Course may be repeated for credit.

A. Meleis

Critical and analytical review of theories and research that links health of the individual and families to relocations and transitions. Focuses on responses and coping with situational, developmental, health-illness, and sociocultural transitions. Nursing therapeutic theories will also be explored. COMM HLTH SYST

257. Assessment/Management of Common Psychiatric Symptoms. (2) § F,W, Sp. Prerequisites: None. Lecture 2 hours. L. Chafetz

Course analyzes common signs and symptoms of psychiatric illness from a biopsychosocial perspective. The diagnostic process will be highlighted and symptom management will be discussed. COMM HLTH SYST

scope and control of practice, and professional women's health care provider FAM HLTH

262B. Women's Health Roles/Issues II. (1) § W, Sp. Prerequisites: N262A. Seminar 1 hour.

I. Deloseph

Seminar focuses on critical analysis of issues influencing restraints and enhancements of contemporary practice for women's health care providers. Impact of current legal, legislative, technological, and health care delivery trends are examined. FAM HLTH

263. Bereavement. (2-3) § Sp. Lecture 2 hours. Lab 0-3 hours.

I. Martinson

Course analyzes empirical research and theory dealing with bereavement. Underlying physiological and psychological mechanisms and responses related to death will be explored across the life span. FAM HLTH

ind interpretation of clinical from the history and physical exam. PHYSIOL NURS

271.01. Decision Making in Adult Primary Care. (3) § Sp. Prerequisites: N246, N247, N247.01 or consent of instructor. Lecture 3 hours.

C. Kelber

Case studies of complex chronic illnesses are analyzed to delineate critical decision-making variables, which include the relevant pathophysiology, epidemiologic principles, and psychological/sociological variables that impact symptom disease expression, clinical management, and methods of coping. COMM HLTH SYST

271.02. Problems in Family Primary Care. (3) § Sp. Prerequisites: N245, N246, N247, N270, N279 or consent of instructor. Seminar 3 hours.

C. Chesla, S. Shea

Course explores complex health/illness problems as they occur in families. Complex assessment and management of patients and their families, across the life span, are discussed. FAM HLTH

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Nursing

271.04. School Health & Nursing. (3) § F. Prerequisites: School health focus or consent of instructor. Seminar 3 hours.

A. Hanson

Course explores contemporary school health issues, the interdisciplinary approach to the provision of school health services, including special education, the role of the Advanced Practice Nurse in the school setting, comprehensive school health program, and school health education. FAM HLTH

271.06. Management of Clinical Occupational Health Problems. (2) § W. Prerequisites: Consent of instructor. Lecture 2 hours.

B. Burgel

Multidisciplinary course exploring the evaluation and clinical management of acute and chronic occupational and environmental health problems, Clinical diagnostic strategies and epidemiologic methods are used in evaluation of occupational health problems, including health hazards evaluations, surveillance and disability evaluation. COMM HLTH SYST -

272. Children with Special Health Needs. (2) § W.Prerequisites: N283ABC or consent of instructor. Lecture 2 hours.

I. Martinson

Course explores the unique health care demands of vulnerable children with need for prolonged health support. The impact of the care giving environment, community, and care providers will be addressed in relation to the well-being of the child and family. FAM HLTH

273A. Curr Concepts in Occup Hith Nsg: (2) § F. Prerequisites: Consent of instructor. Lecture 2 hours.

B. Burgel

Course analyzes the role of the Occupational Health Nurse in managing an Occupational Health Service within a changing regulatory and fiscal environment. Emphasis is on planning, development, and evaluation of occupational health programs. COMM HLTH SYST

273B. Issues in Occupational Health. (1) § E.Prerequisites: Consent of instructor. Seminar 1 hour.

J. Faucett, B. Burgel

Course focuses on the process and outcomes of developing federal and state policies and regulations for occupational health and safety. COMM HLTH SYST

274A. Hith and Safety Hazards/Work-

place. (3) § Sp. Prerequisites: Consent of instructor. Lecture 2 hours. Lab 3 hours. P. Quinlan

Course introduces principles of industrial hygiene and safety for identification of chemical, biologic, physical, ergonomic, and safety hazards at work. Student will identify environmental monitoring methods, select health surveillance and safety measures, and discuss methods of control exposures and injuries. COMM HLTH SYST

274B. Factors in Injury Control. (2) § F. Prerequisites: Enrollment in Occupational Health Program or permission of instructor. Semmar 2 hours.

J. Faucett

Course describes and discusses political, sociocultural, organizational, interpersonal, and individual factors affecting injuries, injury control, and work re-entry. Students will learn how the principles of risk communication and adult learning may be applied in occupational health programs. COMM HLTH SYST

274C. Occupational Safety. (2) § E Prerequisites: Consent of instructor. Lecture 2 hours. **B. Plog**

Course emphasizes identification of safety hazards of work; components of an injury/ illness prevention program; principles of hazard control and accident investigation; essentials of safety inspections and audits; application of safety inspection methods and ergonomic job analysis. COMM HLTH SYST

275. Sociocultural & Community Health.(3) § F.W. Prerequisites: None. Lec278. Nursing Science History & Philos. (4) §W. Prerequisites: Doctoral-level standing or consent of instructor. Lecture 2 hours. Seminar 2 hours. S. Gortner

Course is an analysis of history and philosophy of nursing science in the United States and abroad, addressing origins of scientific questions and activity, contemporary philosophic viewpoints, and debates currently ongoing regarding design, conduct, and outcomes of nursing research. FAM HLTH

279. Family Nursing Theory and Practice. (3) § E Prerequisites: None. Lecture 3 hours.

C. Chesla

Course integrates empirical evidence of reciprocal family and health interactions with family theoretical and therapeutic concepts applicable to advanced nursing practice. FAM HLTH

279C. Cultural Issues in Family Health. (2) § Sp. Prerequisites: N 279B and consent of instructor. Lecture 1 hour. Seminar 1 hour. Pickwell

Course involves analysis of family, cultural, and behavioral theories and issues leading to clinical intervention in family primary care. FAM HLTH

282. Geriatric Pharmacology (3) § W. Lecture 3 hours.

S. Echaves, C. Deitrich

Course explores clinical management of pharmacology and integration of drug therapy into the therapeutic plan and nursing care of older adults. The course focuses on drugs commonly used in multiple settings for the treatment of chronic disease and minor acute illnesses. PHYSIOL NURS

283A. Pediatric Physiologic Development. (3) § W. Prerequisites: None. Lecture 3 hours.

M. Lynch

Course studies major organ system function as modified by developmental needs and system immaturity in the infant, child, and adolescent. Implications for advanced practice pediatric nursing interventions will be addressed in relation to health promotion and illness prevention. FAM HLTH

283B. Common Pediatric Pathophysiology & Clinical Management. (3) § Sp. Prerequisites: N283A. Lecture 3 hours. M. Lynch, K. Duderstadt

Course will provide a conceptual approach to examine common pediatric pathophysiologic phenomena observed in varied caregiving environments and across the illness continuum. The interrelationships of human responses, clinical manifestations, and therapeutic interventions will be discussed. FAM HLTH

283C. Complex Pediatric Pathophysiology & Clinical Management. (3) § F. Prerequisites: N283AB. Lecture 3 hours. M. Lynch, K. Duderstadt

Course will provide a conceptual approach to examine complex acute and chronic pediatric pathophysiologic phenomena observed in varied caregiving environments in infants, children, and adolescents. The interrelationships of human responses, clinical manifestations, and therapeutic interventions will be discussed. FAM HLTH

284. Adolescent Health Care. (2) § Sp. Prerequisites: Consent of instructor. Seminar 2 hours.

M. Savedra, J. Broering

Examination and analysis of theory and research related to health care of adolescents and their families in a variety of settings. Emphasis will be on adaptation to selected stresses including trauma, chronicity, hospitalization, terminal illness and disability. FAM HLTH

285A. Qualitative Methods I. (5) § E.Prerequisites: Second-year doctoral student. Seminar 3 hours. Field work 6 hours. J. DeJoseph, J. Kayser-Jones, A. Clarke, H. Pinderhughes

Course reviews many of the types of qualitative research methods, emphasizing assumptions, approaches. Focus on design, entree, 286A. Research in Stress & Coping. (3-4) § W. Prerequisites: Consent of instructor or doctoral-level theory development. Lecture 3 hours. Contract for 1 unit for proposal development (optional). P. Benner

Course critically analyzes the relationship of stress and coping to health and illness. Examines theoretical and empirical links between coping strategies and therapeutic interventions. Emphasis is on research programs. PHYSIOL NURS

287A. Organizational Redesign. (3) § F. Prerequisites: None. Lecture 3 hours. S. Henry

Course applies theory and research from management science and nursing science to redesign of the healthcare system. Topics include organizational restructuring, redesign, and improvement of work processes through the strategies and techniques of reengineering and continuous quality improvement (CQI). COMM HLTH SYST

287B. Behavior in Organizations. (3) § W. Prerequisites: N287A and consent of instructor. Lecture 3 hours. M. Flood

Course examines the characteristics, causes, and consequences of behavior and experiences of individuals as they function in organizations. Emphasis is on personnel management and other managerial functions. COMM HLTH SYST

287D. Financial Management for Nurse Administrators. (3) §W. Lecture 3 hours. J. Seago

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, monitoring, controlling, and in costing nursing care. COMM HLTH SYST

288A. Management of Critically Ill Pa-

tients I. (3) § Sp. Prerequisites: Prior or concurrent enrollment in Pathophysiology course and/or consent of instructor. Seminar 3 hours. K. Puncillo

Seminar provides theoretical basis for monitoring and managing complex problems in critically ill adults with acute conditions or injuries. Students analyze clinical data, make management decisions, and evaluate treatment outcomes based on knowledge of highrisk conditions and research. PHYSIOL NURS

288B. Management of Critically III Patients II. (3) § F. Prerequisites: Prior or con-

current enrollment in Pathophysiology course. Completion of N288A. Lecture 2 hours. Seminar 1 hour.

K. Puntillo

Course provides theoretical basis for monitoring and managing selected complex problems in critically ill adults with chronic conditions. Students analyze clinical data from multiple sources, make management decisions, and evaluate treatment outcomes based on knowledge of high-risk conditions and research findings. PHYSIOL NURS

288C. Issues in Critical Care/Trauma. (1-3) § W. Prerequisites: None. Seminar 1 hour. Project 1-2 hours.

K. Puntillo

Course provides critical analysis of issues and population-specific problems that confront advanced practice nurses. Emphasis is on evaluation of factors that affect the knowledge and attitudes of nurses who manage the care of critically ill patients and their families. PHYSIOL NURS

289A. Advanced Quantitative Research Methods I. (3) § F. Prerequisites: N209 and

N212 or equivalent, B187 and doctoral student only. Lecture 2 hours. Lab 3 hours. E. Froelicher, R. Newcorner

Course addresses theoretical basis of advanced quantitative methods. Fundamental issues of causality, and design issues pertinent to causality, are addressed using randomized clinical trials as models for experimental designs. Methods of sampling and issues in data collection and measurement are ex291. Acute Psych Care in the Community. (2) § F. Seminar 2 hours. L. Chafetz

Course reviews clinical problems encountered in acute psychiatric services in community settings. In addition to direct care issues, students have the opportunity to discuss the sociocultural, legal, ethical, and economic factors which influence provision of services. COMM HLTH SYST

292A. Physiology of Pregnancy. (2) § F.W. Prerequisites: Consent of instructor. Lecture 2 hours.

K. Lee, L. Ennis

Course reviews and analyzes advanced physiology and pathophysiology of pregnancy and their impact on the maternal-fetal unit as a basis for nursing practice and research. Emphasis is on reproductive and endocrine systems affecting adaptation and development during pregnancy. FAM HLTH

292B. Physiology of Pregnancy. (2) §W, Sp. Prerequisites: Consent of instructor. Lecture 2 hours.

M. Hansen

Course reviews and analyzes advanced physiology and pathophysiology of pregnancy as a basis for practice and research. Emphasis is on cardiovascular, hematologic, neuroendocrine, and renal systems affecting adaptation and development during pregnancy. FAM HLTH

292C. Biopsychosocial Alterations– Pregnancy. (2-3) § W. Prerequisites: N292A. Lecture 2 hours. Seminar 1 hour (optional). P. Bernal de Pheils

Course analyzes the biopsychosocial alterations of women during the childbearing year. Clinical conditioning and related therapies will be examined in relation to policy issues and risk assessment. FAM HLTH

293. Complex Pediatric Health Problems. (4) § F. Prerequisites: N270, N245, N245.04, N246, N246.04, or consent of

instructor. Lecture 4 hours. K. Duderstadt, M. Lynch

Course introduces the more complex health problems encountered in pediatric primary care. Clinical presentation, underlying causes and appropriate family centered treatment are discussed. FAM HLTH

294. Concepts of Nurse-Midwifery Care. (3) § F. Prerequisites: Enrollment in Nurse-Midwifery Specialty. Lecture 3 hours. L. Ennis

Course focuses on theory supporting midwifery management of the low- to high-risk fetus and newborn. Content traces human development from conception through adaptation to neonatal life. Course articulates with clinical lab which covers newborn health assessment and management skills. FAM HLTH

295A. Care of Older Adults. (2) § F. Prerequisites: Completion of N208AB or consent of instructor. Lecture 2 hours. M. Wallhagen

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Course focuses on advanced practice nursing of older clients across care settings. Case studies, lectures, and discussions allow students to integrate pathophysiologic, pharmacologic, psychosocial, and ethical concepts and to analyze critical approaches to assessment and care. PHYSIOL NURS

295B. Care of Older Adults. (3) § W. Prerequisites: Completion of N295A, N208AB or consent of instructor. Lecture 3 hours. J. Janz

Course focuses on advanced practice nursing of older clients across care settings. Case studies, lectures, and discussions allow students to integrate pathophysiologic, pharmacologic, psychosocial, and ethical concepts and to analyze critical approaches to assessment and care. PHYSIOL NURS

296. Teaching-Learning Processes. (4) § Sp. Prerequisites: None. Lecture 4 hours. **H. Wilson**

Course reviews and discusses principles and theories that enlighten the transactions and interactions that take place between students and teachers and among students and examines teaching-learning practices in nursing education and development and client teach401. Teaching Residency. (4-12) § F,W, Sp. Prerequisites: Consent of instructor. Lab 12-36 hours.

Staff

Opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor.

402. Administration Residency. (2-12) § SS1, SS2, F;W, Sp. Prerequisites: Completion of N287AB and N287D, each with a grade of *B* or higher, and consent of instructor. Lab 6-36 hours.

S. Henry

36 hours.

Staff

Staff

HLTH

K. Karp

A. Hanson

Staff

HLTH SYST

Staff

Opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor. COMM HLTH SYST

403. Consultation Residency. (4-12) § F, W, Sp. Prerequisites: 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. INTERDE-PARTMENTAL

404. Clinical Residency. (4–12) § F,W, Sp. Prerequisites: 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. INTERDEPARTMENTAL

404.01. Adult Primary Care Nursing-

Clinical Preceptorship. (4-12) § F,W, Sp.

Prerequisites: Consent of instructor. Lab 12-

Course provides an opportunity to apply and

evaluate theories, concepts, and skills in the

work setting under the supervision of a pre-

404.02. Advanced Practice Residency.

Course provides student with the opportu-

nity to apply and evaluate theories, concepts

and skills under the supervision of a precepto

in one or more clinical practice settings.FAM

404.03. Nurse Anesthesia Residency. (12)

§ Sp. Prerequisites: Admission to the Nurse

Anesthesia Specialty, and N211A, N275A,

N276, N211.09, N221.02, N275B, N239A,

N241D, N407.03, N261, N266, N407.02,

N261B, N239B, N407.04, N407, N261C,

Application and evaluation of theories, con-

under supervision of a preceptor. Residency

will include administration, management, and

404.06. Pediatric Nursing Residency (4-

12) § Su, F,W, Sp. Prerequisites: Consent of

Course offers opportunity to apply and

clinical specialist role in ambulatory and

chronic illness care.FAM HLTH

of instructor. Lab 3-24 hours.

of instructor. Lab 3-24 hours.

evaluate theories, concepts, and skills in the

work setting under supervision of a precep-

tor. Focus is on development of the pediatric

405. Practicum in Mental Hith & Com

Nurs. (1-8) § F,W, Sp. Prerequisites: Consent

Opportunity to apply theory in clinical prac-

clinical expertise in selected aspects of mental

health and community nursing. Guided clini-

cal laboratory experience is designed to de-

velop mastery of advanced skills. COMM

406. Practicum in Family Hlth Care

Nurs. (1-8) § F,W, Sp. Prerequisites: Consent

Course provides student opportunity to ap-

ply theory in clinical practice to further de-

tice to further develop skills and to extend

cepts, and skills in advanced nurse practice

evaluation of nurse anesthesia for complex

and difficult cases. PHYSIOL NURS

instructor. Lab 12-36 hours.

N239C. Patient contact 36 hours.

instructor. Patient contact 6-36 hours.

(2-12) § Su, F,W, Sp. Prerequisites: Consent of

ceptor. COMM HLTH SYST

ture 3 hours.

C. Portillo, J. Lipson, M. White.

Course examines health in a cultural context and assessment strategies for community and clinical settings. Course examines medical systems, health beliefs and behavior, social class and ethnicity, community assessment models, and communication. COMM HLTH SYST

275C. Neonatal Pathophysiology. (2) § F. Lecture 2 hours.

Lynch

Course is a study of the major disease processes encountered in the neonate and their relevance to nursing practice. The course will address etiology, manifestations and treatment during the acute phase of illness. FAM HLTH

277. Assessment/Management of Psychosocial Problems. (3) § Sp. Prerequisites: N270 or consent of instructor. Lecture 3 hours.

J. Faucett

Course focuses on assessment and management of psychosocial problems and psychiatric conditions. Course is designed to assist students in determining patients for management and for referral and to develop beginming skills in managing selected patients. COMM HLTH SYST ethics, data-gathering techniques (interviewing, observing) data recording and management. Introduction to data analysis. INTERIDEPART

285B. Qualitative Methods II. (5) § W. Prerequisites: N285A and second-year doctoral student. Seminar 3 hours. Field work 6 hours.

J. DeJoseph, J. Kayser-Jones, A. Clarke, H. Pinderhughes

Course compares and contrasts modes of qualitative analysis. Examines issues in establishing plausibility, credibility, adequacy. Intensive data analysis and examination of the problems of presentation of findings with focus on questions of authority and preparation of text. INTERDEPART

285C. Interpretive Phenomenology. (2) § Sp. Prerequisites: Philosophy courses in phenomenology (may be acquired outside UCSF and also with the consent of the instructor) and N285A&B (Qualitative Methods 1&11). Seminar 2 hours.

P. Benner

Course describes, explains, and demonstrates interpretive phenomenological research. Students generate, present, and critique interpretive commentaries of shared texts. Readings in interpretive methods and exemplary interpretive research are assigned weekly. INTERIDEPART plored. PHYSIOL NURS

N289B. Advanced Quantitative Research Methods II. (3) § W. Prerequisites: N289A and doctoral student only. Lecture 2 hours. Lab 3 hours.

E. Froelicher, R. Newcomer

Course covers continuing analysis of quantitative research methods including selected survey, longitudinal study designs. Focus compares and contrasts research designs, proposes strategies for maximizing strengths of various designs. Explores fit of research questions, methods, and statistical approaches. Examples of methods include questions answered by time series analysis, life table and survival analysis. PHYSIOL NURS

290. Family Theory/Research in Health.

(3) §W. Prerequisites: None. Restrictions: Doctoral student or consent of instructor. Seminar 3 hours.

C. Chesla, C. Gilliss

Course presents and critiques theoretical perspectives and research approaches dominant in the study of family and health. Compatibility of theories and research approaches is examined. FAM HLTH ing programs. COMM HLTH SYST

297. Human Responses to Pain. (2) § F. Lecture 2 hours.

C. Miaskowski

Course explores research related to physiological, psychological, and social responses to human pain; nursing implications for pain assessment; and management of acute and chronic painful conditions across the life span. PHYSIOL NURS

298. Thesis or Comprehensive Exam. (0)

§ F,W, Sp. Prerequisites: Advancement to candidacy and permission of the graduate adviser.

Staff

For graduate students engaged in writing the thesis for the master's degree or taking a comprehensive examination required for the master's degree.

299. Dissertation. (0) § F,W, Sp. Prerequisites: Advancement to candidacy and permis-

sion of the graduate adviser.

Staff

For graduate students engaged in writing the dissertation for the Doctor of Nursing Science (DNS) or Doctor of Philosophy in Nursing degree. velop skills and to extend clinical expertise in selected aspects of family health care nursing. Guided clinical laboratory experience is designed to develop mastery of advanced skills. FAM HLTH

407. Practicum in Physiological Nurs-

ing. (1-8) § F.W. Sp. Prerequisites: Consent of Instructor. Lab 3-24 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. PHYSIOL NURS

407.01. Clin Mgmnt of Older Adults. (2)

§ F. Prerequisites: N208A&B (Human Pathophysiology & Aging) and N295A or B (Care of Older Adults [concurrently]), or consent of instructor. Lab 6 hours.

J. Janz

Course provides opportunity for skill development in comprehensive assessment of 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. PHYSIOL NURS 407.02. Nurse Anesthesia Practium. (3) § Su. Prerequisites: Admission to the Nurse Anesthesia Specialty and N211A, N275A, N276, N211.09, N221.02, N275B, N239A, N241D, N261A, N266. Patient contact 9 hours.

K. Karp

Application of theory to develop essential skills fundamental to nurse anesthesia practice. Focus is on integration of foundational theories and concepts in anesthesia nursing with clinical management of the patient undergoing local, regional, and general anesthesia. PHYSIOL NURS

407.03 Basic Anesthesia Management

Practicum. (3-5) § Su, F.W. Prerequisites: Admission to the Nurse Anesthesia Specialty and N211A, N275A, N276, N211.09, N221.02, N275B, N239A, N241D, N407.02. Patient contact 9-15 hours.

K. Karp

Application of theory in clinical practice to develop skills and extended clinical expertise in all phases of nurse anesthesia practice. Guided clinical experience is designed to develop mastery of advanced skills. PHYSIOL NURS

407.04. Prac. Pulmonary Function in

Nurse Anesthesia. (2) § É Prerequisites: Admission to the Nurse Anesthesia Specialty and N211A, N275A, N276, N211.09, N221.02, N275B, N239A, N241D, N407.02, N261A, N266, N407.03. Lab 6 hours. K. Karp

Application of theory in clinical nurse anesthesia practice to further develop skills and to extend clinical expertise in evaluation of pulmonary function. Guided clinical experience is designed to develop mastery of advanced skills. PHYSIOL NURS

408. Clinical Residency. (4-12) § Su, F,W, Sp. Prerequisites: Consent of instructor. Lab 12-36 hours.

Staff

Course provides the student an opportunity to apply and evaluate theories, concepts, and skills in the work setting under the supervision of a preceptor. INTERDEPARTMEN-TAL

410.Teaching Practicum. (1-8) § FW, Sp. Prerequisites: Consent of instructor. Lab 3-24 hours.

Staff

Supervised practice in selected components of the teaching role in nursing. COMM HLTH SYST

411A. Introduction to Computers. (2) § F, W, Sp. Lecture 2 hours.

R. Slaughter

Course presents overview of the impact of computer technology upon nursing. Focus is upon hardware and software for nursing in the mainframe to micro environment. Word processing for scientific writing using IBM PC is an integral part of the class. PHYSIOL NURS

411B. Fiscal Modeling. (2) § W. Prerequisites: N411A. Priority of space availability to Administration students. Lecture 2 hours. **R. Slaughter**

Course emphasis is on the use of the computer as a tool for the nurse manager in financial planning. PHYSIOL NURS

411C. Computers in Administration. (2) § Sp. Prerequisites: N411AB. Lecture 2 hours. R. Slaughter

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 administration environment. PHYSIOL NURS

411D. Introduction to Computers. (2) § F; W, Sp. Lecture 1 hour. Lab 3 hours. **J. Grout**

Course provides an introduction to microcomputers, focusing on word processing, DOS basics and hard disk management, hardware and software applications, and purchasing a system. PHYSIOL NURS

411E. Data Management. (2) § SS1, F,W, Sp. Prerequisites: None. Biostatistics 187 or 185AB are recommended. Lecture 1 hour. Lab 3 hours.

S. Paul

202. Family Nutrition Counseling. (3) § Sp. Prerequisites: Consent of instructor. Lecture 3 hours. Y. Gutierrez

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. (2-3) §W.Lecture 2 hours, Module 1 hour.

Y. Gutierrez

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, disease-induced nutritional deficiencies, common problems, and intervention approaches. Cross-cultural aspects included. FAM HLTH

249. Independent Study in Nutrition. (1-4) § F,W, Sp. Prerequisites: Completion of or concurrent enrollment in Nu200, or Nu202, or Nu208. Lecture 1-4 hours. Staff

Course is designed to focus on the exploration of selected nutritional issues in clinical nursing practice. Guided study will include analyses of scientific and popular nutrition literature, and identification and delineation of therapeutic approaches. FAM HLTH

Obstetrics, Gynecology and Reproductive Sciences

Science

110. Ob/Gyn Core Clerkship. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 132A-B-C.

Robertson, Braga

Basic principles and fundamental techniques in obstetrics and gynecology are discussed in a series of seminars, case discussions, and teaching clinics. Students gain practical experience in clinics, wards, delivery room, and operating room under direct supervision. OB GYN R S

140.02. Advanced Clinical Clerkships.

(1.5 per week) Su, F,W, Sp. Prerequisite: Satisfactory com-pletion of Obstetrics and Gynecology 110, Pediatrics Core Clerkship and 110, and either Medicine 110 or Surgery 110 Core Clerkships. **Robertson**

Advanced clinical clerkship, obstetrics and/or gynecology at other accredited hospital, as individually arranged, and approved by de-

140.05. Advanced Ob/Gyn Clerkship-

VMC. (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.A. and Canada.

Reyes, Cooke, Sueldo

partment OB GYN R S

Practical clinical training in obstetrics and gynecology at Valley Medical Center of Fresno. Time is divided between labor and delivery experience, gynecology ward, and obstetrics and gynecology outpatient clinic. Students will have the opportunity to see normal, high risk, and adolescent pregnancies. OB GYN R S

140.06. Advanced Ob/Gyn Clerkship-

SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Obstetrics and Gynecology 110, Pediatrics 110, and either Medicine 110 or Surgery 110, or consent of instructor. **Grimes**

The clerk will function as an acting intern on the gynecology inpatient service. Some gynecologic outpatient and emergency room experience will be possible as well as inpatient and surgical gynecology. OB GYN R S

140.07. Advanced Gynecology Oncology-MZ. (1.5 per week) SS1, SS2, Su, F,W, Sp. Prerequisite: Satisfactory completion of equivalent basic clerkships in Ob/Gyn 110, Pediatrics 110, and either Medicine 110 or Surgery 110. Powell

The clerk functions in the role of an acting resident on the gynecologic oncology service. Responsibilities are primarily on the inpatient service and will include both surgical and non-surgical aspects of gynecologic oncology. OB GYN R S **140.10. Advanced Obstetrics**–SFGH. (1.5 per week) SS1, SS2, Su, FW, Sp. Prerequisite: Obstetrics and Gynecology 110 at UCSF or equivalent course at recognized medical school. Satisfactory completion of equivalent basic clerkships in pediatrics and either medicine or surgery.

Beckerman and Staff

Advanced obstetrics clerkship at San Francisco General Hospital. The clerk will participate as a senior student member of the OB team. Attendance at High Risk OB Clinic. Presentations at conferences and journal club will be expected. This rotation will not provide additional experience with routine deliveries. OB GYN R S

140.11. Advanced Gynecological Clerkship-UC. (1.5 per week) SS1, SS2, Su, F,W, Sp. Prerequisite: Obstetrics and Gynecology 110, Pediatrics 110, and either Medicine 110 or Surgery 110. Gates

Advanced clerkship focusing on benign gynecologic conditions. Includes experience in outpatient clinics, operating room, and emergency room. Duties will include presentations at conferences, journal clubs, and at least one review of a pertinent topic. OB GYN R S

140.15. Continuity Care Clinic. (1) Su, F, W, Sp. Prerequisite: Fourth-year standing. Restriction: No more than two students per block. Conference 1 hour. Clinic 3-4 hours. Learman, Grimes

Students see patients a minimum of one halfday per week over six to nine months in the Women's Health Center at SFGH, including women seeking primary reproductive health care and problem-oriented care. 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

160.01. First- and Second-Year Ob/Gyn Preceptorship. (1) Su, F.W, Sp. Field work 3 hours.

Robertson

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

170.02. Perinatal Elective. (1) E Prerequisite: none. Restriction: Medical students only. Lecture 1 hour. Clinic, patient contact 2 times each per month.

Flanagan and Staff

Medical and psychosocial issues of a normal pregnancy will be discussed in an interactive lecture format. A longitudinal clinical experience with a pregnant woman and a provider will be offered to a limited number of students. OB GYN R S

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

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

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

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

210. Molecular and Cellular Biology of Reproduction. (4) §W, Sp. Lecture 2 hours. Conference 2 hours. **Skinner**

The molecular, cellular, and physiological aspects of selected areas of Reproductive Biology will be reviewed. Emphasis will be to convey an appreciation of taking a system from a physiological level to a molecular level of understanding. Application of this information will be illustrated by investigating the molecular medicine aspects of each topic. OB GYN R S

400. Staff Conferences. (1) Su, F,W, Sp. Prerequisite: Practicing physicians only. Jaffe and Staff Ophthalmology

First-Year Coordinated Instruction-Medicine 131A-B-C. Lecture-demonstrations and section work devoted to the supervised examination of patients. 454. Clinical Ophthalmology. (1.5 per

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

455. Fourth-Year Residency. (1.5 per

eye cases. Residents consult for other hospital

Fourth-year residency taken at UC or at any

approved institution subject to the approval

of the chairperson of the department and the dean. OPHTHALMOL

457. Clinical Ophthalmology. (1.5 per

PH A. Schwartz, STM R.N. Shaffer,

Schatz, CHS, SRM Rathbun, DMC T.

Residents or fellows, under supervision, are

responsible for patient care, including diag-

nostic studies and treatment of medical eve

care, diagnosis, surgery, and follow-up treat-

490. Clinical Ophthalmology. (1.5 per

ment of surgical eye cases. OPHTHALMOL

Residents, under supervision of the attending

staff, are responsible for patient care on wards

and in the follow-up clinic, including diag-

nostic studies and consultation. This rotation

108.01. Intro to Caries & Perio. (1) Sp.

Introduction to the etiology, pathogenesis,

108.02. Micro/Immuno of Caries &

An in-depth study of the microbiology and

dental caries. The formation and pathogenic

immunology of periodontal diseases and

potential of dental plaques are discussed.

108.03. Cariology & Preventive Den-

108.01 & 108.02. Lecture 1 hour. Seminar 1

Advanced concepts of dental caries manage-

ment, including risk and activity assessment,

preventive and therapeutic strategies for unda-

vidual patients, the role of fluoride in caries

prevention, and aspects of community-based

111. First-Year Special Study. (2) F. Pre-

requisite: Passing placement examination and

Discussion of biological problems of interest

in dentistry including saliva, mineral metabo-

lism, hydroxylapatite crystal structure, con-

nective tissue, bacterial cell walls, oral bacte-

116. Intro to Oral Biology. (1.5) E Lecture

An introduction to the development.struc-

ing tooth enamel, dentin and pulp, and the

198. Supervised Study. (1-5) Su, F,W, Sp.

Library research and directed reading under

supervision of a member of the faculty with

the approval of the chairperson of the divi-

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

Prerequisite: Consent of instructor. Lab 3-15

A laboratory research project under direction

of a member of the faculty with the approval

oral mucosa. STOMATOL

Library research: 3-15 hours.

sion. STOMATOL

ture, and physiology of oral structures includ-

rial metabolism, and blood coagulation.

caries management. STOMATOL

consent of instructor. Lecture 2 hours.

tistry (2) W. Prerequisite: Oral Biology

Perio. (2) F. Prerequisite: Oral Biology

and diagnosis of dental caries and periodontal disease. STOMATOL

Prerequisite: Biochemistry 110A-B, Microbi-

is combined with patient-care.

UC Beard, CHMC E. Stern

services. OPHTHALMOL

week) Su, F,W, Sp.

week) Su, F, W, Sp.

week) Su, F, W, Sp.

week) Su, F, W, Sp.

OPHTHALMOL

Oral Biology

ology 116. Lecture 1 hour.

108.01. Lecture 2 hours.

Moore

Seiff

Ryder

Johnson

STOMATOL

hour.

Hume

Newbrun

STOMATOL

Ryder, Rowe

16 hours.

Staff

hours

Staff

S. Kramer

Core Clerkship–Surgery 110 and 111 include lectures and clinical experience in the diagnosis and care of eye diseases.

140.01A. Advanced Ophthalmology Clkshp-UC. (1.5 per week) Su, FW, Sp. Prerequisite: Medicine 110 and Surgery 110 or consent of instructor. M. Drake

Students will serve as subinterns on the oph-

thalmology wards. They will work up and present patients, and attend surgery and postoperative clinics. This is an intensive clerkship where students will be on twenty-four hour call the entire time. OPHTHALMOL

140.01B. Advanced Ophthalmology Clkshp--UC. (1.5 per week) Su, FW, Sp. Prerequisite: Consent of instructor. Hoyt

Students will observe, work up and present ophthalmology outpatients at the Eye Clinic. They will attend department rounds and conferences. OPHTHALMOL

140.02. Off-Campus Clerkship. (1.5 per week) Su, FW, Sp. Prerequisite: Consent of instructor.

Hoyt

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

140.03A. Advanced Clinical Clerkship-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 or consent of instructor. One student per block. Seiff, Good

Students serve as subinterns on the Ophthalmology Service. They work up and present cases in the outpatient clinic and on the wards; and have the opportunity to participate in the operating room. On-call and weekend responsibilities should be expected. OPHTHALMOL

140.06. Adv Ophthalmology Clerkship-VA. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of instructor. Stanley

Clinical observation of patients in clinics, wards and surgery. OPHTHALMOL

150.02. Ophthalmology Research. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of instructor and chairperson of the department.

S. Kramer

A research project under the direction of a member of the faculty carried out in the Department of Ophthalmology. OPHTHALMOL

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

S. Kramer

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

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 chairperson 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 visitors follows. Residents also present papers on various aspects of medicine and ophthalmology, which are discussed by faculty members. OPHTHALMOL

401. Staff Conference. (1) F.W. Sp. Prerequisite: First- and third-year residents. **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

402. Special Topics Seminar. (6) F,W, Sp.

S. Kramer

Course offers a hands-on experience with computers and programs that can be used for data management and statistical analysis. The benefits of considering options for data collection, entry, analysis, and preparing research strategy before data are collected is emphasized. PHYSIOL NURS

Nutrition

120. Nutrition and Health. (1) W. Lecture 10 hours.

S. Silverstein

An introduction to the basic principles of human nutrition. Emphasis is on the maintenance of normal nutrition throughout the life span and its preventive role in maintaining general health, specifically oral health. DENT PUB HLTH

200. Maternal & Infant Nutrition. (2-4) § Sp. Prerequisites: Consent of instructor. Lecture 2-4 hours.

Y. Gutierrez

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

Clinical experience in a subspecialty area or general obstetrics and gynecology under the direction of a member of the faculty. OB GYN R S

140.09. High-Risk Pregnancy-Advanced Senior Elective. (1.5 per week) SS1, SS2, Su, F.W. Sp. Prerequisite: Obstetrics and Gynecology 110. Kilpatrick and Staff

Advanced clerkship focusing on outpatient special obstetrical care clinics and inpatient management of high-risk antepartum patients. Duties will include presentations at conferences, journal clubs, and at least one review of a pertinent topic. OB GYN R S Conferences comprised of formal discussions by staff, faculty, and visiting lecturers. OB GYN R S

401. Surgical Pathology Seminar. (1) Su, F,W,Sp.

Gates, 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

402. Residents Core Lecture Series. (1) Su, F,W, Sp.

Gates

Seminars include presentations of special topics, literature reviews, and discussions. Discussions of resident staff functions also are held. OB GYN R S

450. Clinical Obstetrics & Gynecology. (10) Su, F.W. Sp. UC Laros, SFGH R. Sweet, C. Webb

UC Laros, SFGH R. Sweet, C. Webb Residents are responsible for the care of patients in the hospital and outpatient clinic. Formal and individual instruction is conducted. OB GYN R.S work covering pathology, neuro-ophthalmology, uveitis, physiological optics, refraction, ocular motility, glaucoma, and microbiology. OPHTHALMOL

Seminars include didactic lectures in practical

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

450. Clinical Ophthalmology. (1.5 per week) Su, F,W, Sp. **M. Drake**

Residents, under supervision, are responsible for patients in the Eye Clinic. First-year resi-

dents assist in eye surgery and the Eye Bank program. Specialty clinics include external diseases, extraocular muscles, medical ophthalmology, ophthalmoscopy, refraction, cataract, glaucoma, neuro-ophthalmology, plastic surgery, and tumor. OPHTHALMOL

of the chairperson of the division. STOMATOL

209. Connective Tissue Seminar. (2) § Sp. Seminar 2 hours.

Bhatnagar

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

210. Topics in Virology. (1) § Sp. Prerequisite: General knowledge of microbiology, immunology, molecular biology, or consent of instructor. Seminar 1 hour. Offered in alternate years. Contact Oral Biology office for next offering.

Pereira

Small group tutorial in which special topics in virology and correlated reading will be selected for discussion by students and staff members.STOMATOL

Oral Biology

211. Saliva and Salivary Glands. (2) § F Prerequisite: Consent of graduate advisor and instructor. Seminar 2 hours. Offered in alternate years; contact Oral Biology office for next offering.

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Recent information on the composition, regulation, and function of the secretions from the major and minor salivary glands. Special consideration will be given to salivary gland dysfunction and its consequences. STOMATOL

215. Laboratory Rotation. (4) § F,W, Sp. Prerequisite: 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

220. Current Topics. (1) § F,W, Sp. Seminar 1 hour.

Staff

A seminar series covering current advances in research in oral biology in a systematic manner. Current literature will be critically reviewed by students under faculty supervision, or by faculty or guest lectures. STOMATOL

221. Extracellular Matrices. (2) § F. Prerequisite: Consent of graduate advisor and instructor. Seminar 2 hours. Offered in alternate years. Contact Oral Biology office for next offering.

Damsky

Assembly and composition of extracellular matrices, including interactions that occur Between cells and matrices, Emphasis on the role of various extracellular matrices during development, function of cell-matrix interactions in the adult, and the perturbation of these relationships that accompanies various disease processes. STOMATOL

223. Cell Physiology. (2) § Su. Lecture 1.5 hours, Conference 0.5 hours. Offered in alternate years. Contact Oral Biology office for next offering.

Rothman, Sargent, A. Miller, Gruenert Survey of selected topics in cellular physiology, including a discussion of cell permeability, electrical properties of cells, muscle contraction, secretion, and stimulus-response coupling.STOMATOL

224. Host Response. (2) § W. Prerequisite: Consent of graduate adviser and instructor. Seminar 2 hours. Offered in alternate years. Contact Oral Biology office for next offering. Percira

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 and Virology. (2) § Sp. Prerequisite: Oral Biology 224 or consent of graduate advisor and instructor. Lecture 2 hours. Offered in alternate years. Contact Oral Biology office for next offering. Armitage, Pereira, and Staff

Current information on pathogenic mechanisms involved in oral infections, with emphasis on the structure, metabolism, genetics and ecological relationships of bacteria and viruses that affect oral tissues. STOMATOL

226. Advanced Oral Microbiology. (3) § F, W, Sp. Prerequisite: Oral Biology 224 & 225 or consent of graduate advisor and instructor. Lecture 3 hours. Offered in alternate years. Contact Oral Biology office for next offering. Armitage, Newbrun, Bramanti, Johnson, Richards

Continuation of studies in oral microbiology begun in Oral Biology 225. In-depth study of the structure, metabolism, genetics, and ecological relationships of bacteria, yeasts, and fungi that affect oral tissues. STOMATOL

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

270. Journal Club. (1.5) § F,W, Sp. Seminar

406A-B-C. Selected Topics. (1-1-1) F,W, Sp. Seminar 1 hour.

Staff A wide spectrum of selected topics related to oral biology is presented with emphasis on basic and applied research methodology, pertinence of problems, significance of findings, and critical evaluation of data. STOMATOL

Oral Diagnosis

189. Acute Dental Care Clerkship. (1-10) F.W, Sp. Angin

Advanced instruction and clinical experience

in the diagnosis and treatment of acute dental problems. STOMATOL

Oral & Maxillofacial

Surgery

109. Clinical Oral Surgery Rotation. (0-7) SS1, SS2, , F,W, Sp. Prerequisite: Third-year standing. For senior rotation, student must have passed Oral Surgery 120, 130.01, 130.02, 130.03, 131, and 132 or have consent from the course supervisor. Clinic variable. R. Smith, Gordon, Pogrel Students learn dentoalveolar surgery, suturing, sterile technique, prescription writing, how to take and interpret a medical history, and how to carry out a full physical examina-

tion. ORAL & MAX SURG

120. Local Anesthesia. (0.5) Sp. Lecture 1 hour.

R. Smith, Gordon

Course covers local anesthetics and techniques as they pertain to the dentition and oral cavity. ORAL & MAX SURG

130.01. Dentoalveolar Surgery. (1) SS. Prerequisite: Anatomy 117.01, 117.02, and Microbiology 116. Lecture 1 hour. Library research 1 hour.

Gordon, R. Smith An introduction to the basic principles of exodontia, dentoalveolar surgery, postopera-

tive care, hemorrhage control, and management of common complications. ORAL & MAX SURG 130.02. Pain & Anxiety Control. (1) F. Prerequisite: Anatomy 117.01, 117.02, and

Microbiology 116. Lecture 1 hour. Gordon, R. Smith

A didactic course outlining the basic principles and techniques of pain and anxiety control in the dental office. Emphasis is on nitrous oxide and oxygen and intravenous sedation. ORAL & MAX SURG

130.03. Diagnosis & Treatment of Orofacial Pain. (1) W. Prerequisite: Anatomy 117.01, 117.02, and Microbiology 116. Lecture 1 hour.

Gordon, R. Smith

A didactic course covering current advances in the field of pain and a variety of topics such as physical evaluation of the pained patient, temporomandibular joint dysfunction myofacial pain, and neuralgic pain. ORAL & MAX SURG

131. Reconstructive Oral & Maxillofacial Surgery & Implantology. (1) Sp. Prerequisite: Oral & Max. Surgery 130.01,

130.02 and 130.03 or consent of instructor. Lecture 1 hour. Gordon, R. Smith

Procedural skills and academic knowledge the general dentist should be familiar with: includes preprosthetic 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. Prerequisite: Third-year dental standing. R. Smith

This course covers the prevention and management of medical emergencies in the dental office. There is discussion on the management of the medically compromised patient. CPR training is also provided. ORAL & MAX SURG

199. Laboratory Project. (1-5) Su, F,W, Sp. Prerequisite: Approval of laboratory project by department chairperson. Lab 3-15 hours. Pogrel & Staff

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

200. Clinical Correlations. (2) SS1, SS2. Enrollment in master's or PhD program in Oral Biology. Seminar 20 hours per quarter. Offered in alternate years. Not offered 1996-97. Pogrel

Course focuses on critical analysis of theoretical, basic, and clinical concepts underlying the assessment and management of problems involving orofacial diseases, deformities, and dysfunctions. The application of research findings to clinical practice is stressed. ORAL & MAX SURG

410. Advanced Techniques in Pain Control. (1) F. Prerequisite: Two-week anesthesia rotations. Seminar 1 hour. Koppe

The trainees will attend seminars in the pharmacology and physiology of commonly used pain control medications. ORAL & MAX SURG

419. General Dentistry in the Operating Room. (1) Su, F,W, Sp. Patient contact 4 hours.

Koppe The trainees will provide general dental services in the operating room for patients requiring general anesthesia. ORAL & MAX SURG

470. Risk Management in Oral and

Maxillofacial Surgery. (1) Sp. Prerequisite: Enrollment in the Oral and Maxillofacial postgraduate training program. Lecture 2 hours

Pogrel & Staff

Course reviews malpractice insurance, risk management, and oral and maxillofacial procedures that are at high risk for litigation. ORAL & MAX SURG

471. Applied Surgical Anatomy. (0-1.5) F; W, Sp. Prerequisite: Course offered to firstyear residents in Oral & Maxillofacial Surgery, other OMFS residents by arrangement, UCSF School of Dentistry postdoctoral residents and students by arrangement, selected senior dental students by arrangement as an elective. Lab 2 hours.

Pogrel, Kearns, Tom

Relationships of gross anatomical structures of the head and neck are studied during laboratory dissections. Emphasis is placed on the correlations of cadaver dissection findings to diagnosis and on operating room surgery. Dissections will be approached as surgical procedures. ORAL & MAX SURG

473. Orthognathic Surgery Seminar. (1) F,W, Sp. Prerequisite: Enrollment in oral & max. surgery residency or general practice residency program. Seminar 1 hour. Pogrel

Residents will participate in evaluation and defining treatment options for patients with facial and dental deformities. ORAL & MAX SURG

474. Oral & Max Surgery Seminar. (1) F, W, Sp. Prerequisite: Limited to interns and residents. Seminar 1 hour.

Pogrel, N. Gordon, R. Smith, Kearns Seminar includes presentation of case studies, literature review, clinical pathology presentations, and occasional guest lectures. ORAL & MAX SURG

475. Adv Clin Oral & Max Surgery. (1.5 per week) Su, F,W, Sp. Prerequisite: Limited to

oral & max. surgery residents. Hospital and clinic 40 hours.

Pogrel & Staff

Interns and residents, under supervision, are responsible for preparation of case records, laboratory work, preoperative patient preparation, attendance at surgery, postoperative care, and attendance at follow-up clinics. In addition, senior residents have administrative. teaching and clinical responsibilities. ORAL

478. Oral & Maxillofacial Surg Practice Mgmt. (1) F. Prerequisite: Enrollment in a postgraduate specialty program or consent of instructor. Lecture 2 hours.

Pogrel, Staff

Provides OMFS residents a broad spectrum of practice management information such as association memberships, disability insurance, loans, OSHA requirements, computers, and billing. ORAL & MAX SURG

489. Advanced General Dentistry in the Hospital. (11) Su, F,W, Sp.

Pogrel, Grimaldi, and Staff

Under direct faculty supervision, the trainee will provide dental consultation to hospitalized patients, treat medically compromised patients in the operating room, provide routine and complex oral surgery services utilizing conscious sedation and other pain control techniques. ORAL & MAX SURG

489.01. Clinical Oral Surgery. (1) F,W, Sp. Prerequisite: Enrollment in general practice residency or advanced education program in general dentistry. Clinic 3 hours. **R. Smith**

Course is designed to teach dentoalveolar surgery, inhalation and intravenous sedation to residents in the oral surgery clinic. The trainee takes responsibility for care of the oral surgery patient including preoperative evaluation, surgery planning, and postoperative care. ORAL & MAX SURG

489.10. Advanced General Dental Care in the Hospital. (11) Su, F,W, Sp. Restriction: AEGD students enrolled in the secondyear program.

Grimaldi, Pogrel, and Staff

This course will provide supervision of the trainee in the evaluation and care of the dental patient on the consultation, surgical, and outpatient services of the hospital. ORAL & MAX SURG

Oral Medicine

122. Clinical Oral Medicine. (4) Sp. Prerequisite: Oral Pathology 127A and 127B. Lecture 4 hours.

D. Greenspan

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. STOMATOL

130. Clinical Oral Medicine. (2) Su. Prerequisite: Oral Medicine 122; second-year standing. Lecture 2 hours. Silverman

History taking, differential diagnosis, and therapeutics. Signs, symptoms, diagnosis, and treatment of oral mucosal diseases with emphasis on oncology. Management problems and solutions. STOMATOL

139. Clinical Oral Medicine. (0-1) Su, F,W, Sp. Prerequisite: Oral Pathology 127A-B, Oral Medicine 122. Clinic 30 hours. Chinn and Staff

One-week bloc rotation following patients in the Oral Medicine clinic. Students will be exposed to various aspects of oral medicine, including history taking, clinical examination, differential diagnosis, principles of diagnosis, treatment, and follow-up. STOMATOL

180A-B-C. Clinical Oral Medicine Conference. (1-1-1) F,W, Sp. Prerequisite: Fourth-year standing. Conference 1 hour. Lozada-Nur, Silverman and Staff Clinical pathology conference; biology, diagnosis, and treatment of various oral lesions and associated patient problems. Some oral conditions are critically reevaluated in the light of current research advances. Specific medical knowledge is related to patient care. STOMATOL

186. Special Issues in Oral Health. (1) Sp. Prerequisite: None. Lecture 8 hours over 1 day.

Lozada-Nur and Staff Illustrates by lecture and case presentations

206. Oral Medicine Seminar. (1-4) F.W. Sp. Seminar 1-4 hours. Staff

A wide spectrum of selected topics related to oral biology is presented with emphasis on basic and applied research methodology, pertinence of problems, significance of findings, and critical evaluation of data. STOMATOL

489. Advanced Oral Medicine. (0-6.5) Su, F,W,Sp.

ees will take histories, examine, diagnose, and

treat patients with a variety of oral signs and

489.10. Advanced Oral Medicine. (0-6.5)

Su, F,W, Sp. Restriction: AEGD students en-

This course will provide clinical supervision

of trainees in the diagnosis and management

of patients with a variety of signs and symp-

127A-B. Introduction to Oral Pathology. (0-5.5) F;W. Prerequisite: Oral Biology 126. Lecture 4.5 hours. Lab 3 hours.

Course correlates clinical oral pathology with

histologic changes. Emphasis is placed on the

microscopic and laboratory interpretation of

cellular, tissue, and chemical alterations. Labo-

ratory sessions concentrate on clinical presen-

198 Supervised Study. (1-5) Su, F,W, Sp.

Library research and directed reading under

supervision of a member of the faculty with

the approval of the chairperson of the divi-

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

Prerequisite: Consent of instructor. Lab 3-15

A laboratory research project under direction

of a member of the faculty with the approval

208A-B. Oral Pathology Seminar. (3-3) §

Lectures and seminars on diseases of the jaws,

oral mucosa and salivary glands. Disease enti-

and histopathological features, with emphasis

on pathogenesis, diagnosis and management.

408A-B. Oral Pathology Seminar. (3-3) F,

Lectures and seminars on diseases of the jaws,

oral mucosa and salivary glands. Disease enti-

and histopathological features, with emphasis

on pathogenesis, diagnosis and management. STOMATOL

110.01. Oral Radiographic Imaging. (2)

This course presents radiobiologic theory

and physical properties of ionizing radiation.

The application of radiographic methods in

dental practice, radiation safety, and normal

110.02. Advanced Oral Radiographic

Advanced oral and maxillofacial imaging

techniques and interpretation emphasizing

deviations from the normal are presented in

radiographic anatomy are described.

Imaging. (2) W. Lecture 2 hours.

Angin, Otis, Danford

this course. STOMATOL

ties are studied through review of current

literature and presentation of their clinical

ties are studied through review of current

literature and presentation of their clinical

of the chairperson of the division.

toms related to oral disease. STOMATOL

rolled in the second-year program.

symptoms. STOMATOL

Oral Pathology

tation of oral diseases.

sion. STOMATOL

Daniels, Regezi

STOMATOL

STOMATOL

Daniels

W. Seminar 3 hours.

Oral Radiology

Angin, Otis, Danford

F. Lecture 2 hours.

STOMATOL

Daniels

EW. Seminar 3 hours.

hours

Library research 3-15 hours.

Daniels, Regezi, J. Greenspan

STOMATOL

D. Greenspan

J. Regezi

Greenspan, Silverman, Lozada-Nur Under direct supervision of faculty, the train-

Staff

Staff

Students review a small group of related pa-

pers and examine intensively the most significant paper. Students will present four such Journal Club talks in their first two years. A written report will be required in the other quarters. STOMATOL

297. Special Study. (1-3) § F.W. Sp.

Reading and conferences under the direction of a member of the staff. STOMATOL

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

For graduate students engaged in writing the thesis for the master's degree. STOMATOL

300A-B-C-D. Teaching Practicum. (1-4, 1-4, 1-4, 1-4) § F,W, Sp, SS1. Prerequisite: Consent of instructor.

Staff

Practice in teaching in a course in oral biology under the supervision of the instructor in charge. STOMATOL

152. Oral & Maxillofacial Surgery. (0.5) F. Restriction: This course is offered for firstyear dental hygiene students. Lecture 1 hour. R. Smith, Walsh

This course offers the same lectures about prevention and management of common medical emergencies as are given to thirdyear dental students (OMFS 132). However, the prerequisites do not apply, and the academic standards are adjusted to the student's background. OMFS 152 does not include the CPR experience. ORAL & MAX SURG

189.04. Adv Clin Oral Surgery & Implantology. (0-16.5) F,W, Sp. Prerequisite: Fourth-year standing and approval of department chairperson.

R. Smith, Gordon

Clerkships at UC, affiliated or other institutions. Students participate in oral surgery care of ambulatory and hospitalized patients and attend seminars and conferences. ORAL & MAX SURG

198. Supervised Study. (1-5) Su, F,W, Sp. Library research 3-15 hours.

Pogrel & Staff

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

& MAX SURG

476. Clinical Methods. (4) Su. Prerequisite: Enrollment in a postgraduate specialty program or consent of instructor. Lecture 2 hours. Patient contact 2 hours.

Pogrel & Staff

A history, physical, and diagnosis course for patients admitted to a hospital or surgicenter. Module 1 will consist of a didactic course, and module 2 will be a lab session where students master the techniques of clinical examination on each other. ORAL & MAX SURG

477. Clinical Methods II. (1-2) F. Prerequisite: Completion of OMFS 476 and approval of course director. Restricted to students enrolled in a postgraduate specialty program. Lecture 2 hours, patient contact 4 hours, for 4-6 weeks.

Pogrel

Physical examination of hospitalized patients demonstrating a wide range of physical signs and symptoms. ORAL & MAX SURG

current issues in dental and oral health. Dental faculty will present clinical research and issues which will bring the dental professional and dental student up to date regarding information for clinical practice. STOMATOL

189. Clinical Oral Medicine. (1-6) Su, F,W, Sp. Prerequisite: Third- or fourth-year standing and consent of instructor. Clinic 3-18 hours

Staff

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 followup: hospital rounds and weekly seminar. STOMATOL

198. Supervised Study. (1-5) Su, F,W, Sp. Staff

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

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. STOMATOL

131. Radiographic Interpretation. (1) Sp Prerequisite: Oral Radiology 121. Lecture 1 hour.

Angin

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. STOMATOL

186.01. Advanced Oral Radiology. (0-3) F,

W, Sp. Prerequisite: Oral Radiology 121. Approval of Clinic Review Committee. Seminar 1-2 hours. Clinic 0-6 hours. Staff

Continuation of Oral Radiology 121 and 131 in a seminar teaching format. STOMATOL

198 Supervised Study. (1-5) Su, F, W, Sp. Library research 3-15 hours. Otis, Taylor, Angin

Library research and directed reading under supervision of a member of the faculty with the approval of the director of the program. STOMATOL.

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

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

Orthodontics

121. Development of Occlusion. (1) Sp. Lecture 1 hour. Boyd

Course describes the mode of growth of the craniofacial 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 DEVEL

131.01. Orthodontics in General Practice. (2) Su. Prerequisite: Orthodontics 121. Lecture 2 hours.

Boyd Recognition and treatment of orthodontic problems most commonly seen by the general practitioner. GR DEVEL

131.02. Orthodontics in General Practice. (1) F. Prerequisite: Orthodontics 121 and third-year standing. Lecture 10 hours. Boyd

This course demonstrates methods to recognize and treat orthodontic problems most commonly seen by the general practitioner. GR DEVEL

131.03. Orthodontics in General Practice. (1) W. Prerequisite: Orthodontics 121 and Orthodontics 131.02. Lecture 10 hours. Boyd

This course demonstrates methods to recognize and treat orthodontic problems most commonly seen by the general practitioner. GR DEVEL

139. Clinical Orthodontics. (0-1) Su, F,W, Sp. Prerequisite: Orthodontics 121, 131.01 and 131.02. 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 problems and refer others to specialists. GR DEVEL

160. Orthodontic Concepts. (1) Sp. Lecture 1 hour.

R. Lee

A discussion of recognition, etiology, and principles of orthodontics for the dental hygienist. GR DEVEL

174. Biomechanics & Tooth Movement.

(2) W, SS1, SS2. Prerequisite: Enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 2 hours.

R. Boyd

Fundamental concepts of force systems will be presented. Included are equilibrium, force equivalency, and free-body analysis. Concepts will be related to orthodontic tooth movement, appliance design, and biological response to force application. GR DEVEL

186. Orthodontic Journal Club. (1.5) Su. F.W. Sp. Prerequisite: Enrolled in 3rd- and 4th-year dentistry program or consent of instructor. Limited to the first 20 students. Seminar 15 hours.

Gorczyca

This course will review the current orthodontic literature in a seminar format for 3rd and 4th year dental and dental hygiene students. GR DEVEL

189. Adv Orthodontics in Gen Practice. (1-2) Su, F,W, Sp. Prerequisite: Fourth-year standing. Clinic 3-6 hours.

R. Boyd Fourth-year dental students will work closely with second-year orthodontic residents in the clinical management of patients requiring comprehensive orthodontic treatment delivered by the orthodontic specialist. GR DEVEL

400. Orthognathic Surgery Conference. (1.5) Su, F,W, Sp. Enrolled in 1st, 2nd, or 3rd year of postdoctoral orthodontic program or consent of instructor. Seminar 15 hours. Boyd, Nielsen, Pogrel

Orthodontic students and oral surgery residents learn to outline and evaluate alternative treatment possibilities for patients with facial and occlusal deformities that may require combined therapy. Review and presentation of the literature and of the records of previously treated patients is included. GR DEVEL

401. Clinical Orthodontic Research. (1)

403. Orthodontic Literature Review.

(1.5) Su, F,W, Sp. Prerequisite: Enrolled in 1st, 2nd, or 3rd year of postdoctoral orthodontic program or consent of instructor. Seminar 15 hours.

Miller

Students will review pertinent literature related to orthodontics and related fields emphasizing papers important to developing the modern concepts of orthodontic treatment. **GR DEVEL**

404. Treatment and Diagnosis. (2.5) Su, F, W, Sp. Prerequisite: Enrolled in 2nd or 3rd year of postdoctoral orthodontics or pediatric dentistry program or consent of instructor. Seminar 15 hours. Clinic 30 hours. Nielsen

The various approaches to using orthodontic fixed and removable appliances will be taught. GR DEVEL

406. Journal Club. (1) Su, F,W, Sp. Prerequisite: Enrolled in 1st, 2nd, or 3rd year of postdoctoral orthodontic program or consent of instructor. Seminar 10 hours. Boyd and Staff

A participation course in the review, analysis, and critical evaluation of the professional literature dealing with orthodontics and related fields GR DEVEL

410. Orthodontics for the General Den-

tist. (0-8) Su, F,W, Sp. Prerequisite: Enrolled in Advanced Education in General Dentistry program or consent of instructor. Lecture 40 hours.

Iezman

Lectures will emphasize diagnosis and treatment planning for patients requiring minor tooth movement. GR DEVEL

411. Clin Ortho for Ped Dentists. (2) Su, F,W, Sp. Prerequisite: Enrolled in postdoctoral pediatric dentistry program or consent of instructor. Seminar 10 hours. Clinic 30 hours. Lee

Seminar focuses on evaluation and treatment of clinical orthodontic problems as experienced in pediatric dental practice. Postdoctoral students will diagnose and treat orthodontic problems. Emphasis is on the relationship between the pediatric dentist and the specialist in orthodontics. GR DEVEL

412. Biology of Tooth Development.

(1.5) F. Prerequisite: Enrolled in 1st year of postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Seminar 15 hours.

Kahn, Kapila, Boyd

The course will review in detail the principles associated with factors that modify bone and effect craniofacial growth at the cellular level. GR DEVEL

413.10. Biomechanics in Orthodontics. (0-3) W, Sp. Prerequisite: Enrolled in 1st year of postdoctoral orthodontic program or consent of instructor. Seminar 30 hours. Kapila

This course covers the biomechanical properties of edgewise appliances and wires. GR

413.20. Orthodontic Biomaterials. (1.5) Su. Prerequisite: Enrolled in 1st year of postdoctoral orthodontic program or consent of instructor. Seminar 15 hours.

Kapila

The course will provide a background in mechanical properties of orthodontic materials and the clinical use and interpretation of their material properties. GR DEVEL

414.10. Orthodontic Appliances. (2.5) Su, E Prerequisite: Enrolled in 1st year of postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Seminar 15 hours. Clinic 30 hours. Nielsen

Course is designed to familiarize the postdoctoral student with orthodontic appliances and their fabrication and adjustment. GR DEVEL

414.20. Facial Growth & Development. (1.5) W, Sp. Prerequisite: Enrolled in 1st year of postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Seminar 15 hours. Conference 10 hours. Nielsen

The course will provide information on how facial morphology changes and develops, using full head radiographs both with and without treatment. GR DEVEL

417.10. Prin Growth, Devel and Occlu-

sion. (3) Su. Prerequisite: Enrolled in 1st year of postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Seminar 30 hours. Bosch

The course will discuss several methods of applying cephalometric analysis for assessing growth of the cranioskeleton. GR DEVEL

417.20. Orthodontic Removable Appliances. (1) F. Prerequisite: Enrollment in postgraduate professional program in School of Dentistry. Seminar 10 hours. West

The theory of removable orthodontic appliances, primarily of the Hawley type, will be taught and demonstrated. The design of various appliances and the fabrication of a typical retainer will be demonstrated. GR DEVEL

419. Clinical Orthodontics I. (8) Su, F,W, Sp. Prerequisite: Enrolled in 1st year of postdoctoral orthodontic program. Seminar 40 hours. Clinic 120 hours

R. Boyd and Staff

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 specialists in the management of orthodontic problems. GR DEVEL

426. Periodontics and Orthodontics. (2) Su. Prerequisite: Enrolled in the 2nd year of postdoctoral orthodontic, pediatric dentistry, periodontic, prosthodontic or advanced general dentistry program. Seminar 20 hours. Boyd

The course describes periodontal disease with emphasis on current research and its relationship to orthodontic treatment. GR DEVEL

429. Clinical Orthodontics II. (8) Su, F,W, Sp. Prerequisite: Enrolled in the 2nd year of postdoctoral orthodontic program. Seminar 40 hours. Clinic 120 hours.

Boyd and Staff

Students will gain familiarity with the diagnosis, treatment, and evaluation of more advanced clinical postdoctoral orthodontic problems experienced in orthodontic practice. Students will treat patients with a broad spectrum of orthodontic problems. Students will work with other specialists in the management of complex orthodontic problems. GR DEVEL

436. Orthodontic Practice Management. (2) Su. Prerequisite: Enrolled in 3rd year of

postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Seminar 10 hours.

D. Johnson, K. Moawad, M. Meyer A survey course intended to prepare the student to deal with the realities of managing an orthodontic practice. Thirty-six topics are discussed by the students and faculty. Several guest lecturers represent different areas. Office visits to established orthodontic practices

439. Clinical Orthodontics III. (8) Su, F,W, Sp. Prerequisite: Enrolled in 3rd year of postdoctoral orthodontic program. Seminar 40 hours. Clinic 120 hours

Boyd and Staff

biweekly. GR DEVEL

Diagnosis, treatment, and evaluation of advanced clinical postdoctoral orthodontic problems experienced in orthodontic practice. Students will work with other specialists in the management of complex orthodontic problems and the instruction of first-year orthodontic students. GR DEVEL

Orthopaedic Surgery First-Year Coordinated Instruction-

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

Core Clerkship-Surgery 110 and 111 include seven to eight orthopaedic lectures, case presentations, and outpatient clinic assignments. Students are given instruction in methods of examination of patients with musculoskeletal disorders, with emphasis on diagnosis and principles of treatment.

140.01A-B-C-D-E-F. Orthopaedic Surgery Clinical Clerkship–UC-SFGH-SFGH ER-VA-PMC-SSE (1.5 per week) Su, 150.01. Research in Orthopaedic Surgery. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110 and 111 and permission of instructor.

490. Clinical Orthopaedics-SFGH. (1.5

wards and follow-up clinics. They are respon-

sible for patient care under the direction of

the attending staff, including history-taking,

physical examinations, X-ray conferences,

First-Year Coordinated Instruction-Medicine 131A-B-C. Lecture-demonstra-

tions and section work devoted to the super-

Core Clerkship-Surgery 110 and 111 in-

examination and diagnosis of otolaryngo-

logical diseases, particularly those related to

trauma and infection. Instruction is given in

the examination and diagnosis of ward and

clinic patients with otolaryngological surgical

140.01A. Adv Otolaryngology Clerkship.

A practical course in general otolaryngology

including diagnosis and treatment of com-

inpatient and outpatient experiences will be

140.01B. Adv Otolaryngology Clerkship.

A practical course in general otolaryngology

including diagnosis and treatment of com-

inpatient and outpatient experiences will be

140.01C. Adv Otolaryngology Clkshp-

SFGH. (1.5 per week) Su, F,W, Sp. Prerequi-

site: Medicine 131A-B-C and Surgery 110.

A practical course in general otolaryngology

including diagnosis and treatment of com-

mon ear, nose, and throat problems; both

inpatient and outpatient experiences will be

140.01F. Clinical Clerkship-MZ. (1.5 per

week) Su, F,W, Sp. Prerequisite: Surgery 110.

This clerkship is in general otolaryngology

and includes the diagnosis and treatment of

common ear, nose, and throat problems. Both

inpatient and outpatient experiences will be

140.02. Off-Campus Clerkship. (1.5 per

Clinical clerkships in off-campus hospitals

approved by the chairperson of the depart-

140.03. Otology and Neurotology. (1.5

per week) Su, F,W, Sp. Prerequisite: Third or

A course in basic audiometric 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

140.04. Introduction to Facial Plastics-

UC-VA. (1.5 per week) Su, F, W, Sp. Prerequi-

This clerkship in otolaryngology-facial plas-

otolaryngologic problems associated with the

150.01. Research in Otolaryngology. (1.5

per week) Su, F,W, Sp. Prerequisite: Must be

third- or fourth-year medical student. Must

have approval of Chairman, Dean, and re-

Research project under the direction of a

Otolaryngology. OTOLARYN

tic and reconstructive surgery will include

the diagnosis and treatment of common

facial area. Both inpatient and outpatient

experiences will be offered. OTOLARYN

week) Su, F.W, Sp. Prezequisite: M 131A-B-C and Surgery 110.

ment and the dean. OTOLARYN

fourth year (fourth preferred)

neoplasms. OTOLARYN

site: IDS 110.

Maas

Jackler, Schindler

mon ear, nose, and throat problems; both

mon ear, nose, and throat problems; both

(1.5 per week) Su, F,W, Sp. Prerequisite:

Medicine 131A-B-C and Surgery 110.

offered. OTOLARYN

offered. OTOLARYN

offered. OTOLARYN

offered. OTOLARYN

(1.5 per week) Su, F,W, Sp. Prerequisite:

Medicine 131A-B-C and Surgery 110.

clude lectures and case demonstrations on the

and consultations. ORTHO SURG

Otolaryngology

vised examination of patients.

Résidents-I rotate through orthopaedic

per week) Su, F,W, Sp.

Staff

diseases

Lee

Lanser

Lee

Singer

Schindler

Diao, Lotz

Research project under direction of a member of the faculty. ORTHO SURG

401. Orthopaedic Pathology. (1) W, Sp. Prerequisite: Third- and fourth-year residents. UCJ. Johnston

A lecture series covering tumors and infections of the musculoskeletal system, illustrated by microscopic slides and photographs of gross specimens. ORTHO SURG

402. Musculoskeletal System Physiol. (1) EW, Sp. Staff

Seminars cover 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. (1) Su. Staff

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 C, DMC, SFGH, SSF, UC and VA.

Staff

Seminars are student presentations of selected orthopaedic surgery subjects featuring historical review complete with bibliography. They are moderated by an assigned faculty member. ORTHO SURG

406. Orthopaedic Medical Staff Conf. (1) Su, F,W, Sp.

UC D. Bradford

Clinical instruction 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.

SFGH Staff Selected problems are illustrated by cases treated or under treatment. Cases are presented by the resident staff and discussed by members of the attending staff. ORTHO SURG

409. Orthopaedic Surgical Conference. (1) Su, F,W, Sp. SSF Skinner

Conference with emphasis on children's problems in which residents make case presentations of inpatients for review and of new patients for consideration of diagnosis and

therapeutic plan. ORTHO SURG 411. Orthopaedic Surgical Conference. (1) Su, F,W, Sp.

Conference includes review of admissions

attending and consulting staffs. Cases are

and discharges of hospitalized patients by the

presented by the residents. ORTHO SURG

412. Orthopaedic Clinical Seminar. (1)

Seminars are held in rotation at each of these

hospitals with residents from all three hospi-

tals attending. They include literature review

and demonstrations related to surgical ap-

proaches, anatomical dissections, diagnosis,

414. Hand Surgery Conference. (1) Su, F,

Conference includes presentation of case

for each session. ORTHO SURG

(1.5 per week) Su, F,W, Sp.

studies in hand surgery with central subject

and treatment. ORTHO SURG

CHMC Debenham, H Slabaugh, SM

VA Maurer

Su, F,W, Sp.

Jensen

W, Sp. Staff

or 3rd year of postdoctoral orthodontic program or consent of instructor. Seminar 10 hours.

Miller, Baumrind, Kapila

An introduction to the logic and methodology of clinical craniofacial research is presented and discussed with illustrations from the literature and from current research activities within the department. GR DEVEL

402. Treatment Progress Seminar. (1) Su, F,W. Prerequisite: Enrolled in 1st, 2nd, or 3rd year of postdoctoral orthodontic program or consent of instructor. Seminar 10 hours.

Boyd, Nielsen, Kapila

Postgraduate students will present individual cases that are in ongoing treatment for analysis of the diagnosis, treatment planning, and evaluation of growth and developmental changes. The purpose is to develop a critical analytical approach to treatment. GR DEVEL

415. Intro Clinical Orthodontics. (8.5) Su. Prerequisite: Enrolled in 1st year of postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 24 hours. Lab 90 hours. Seminar 20 hours. Clinic 30 hours.

Boyd, Fullmer and Staff

This course prepares the postdoctoral orthodontic student for clinical orthodontic treatment of patients. Introductory lectures, seminars, clinical demonstrations, and a typodont experience will provide the information necessary for students to treat their patients. GR DEVEL

416. Orthodontic Diagnosis. (2) Su, F,W, Sp. Prerequisite: Enrollment in 1st year of postgraduate orthodontic program. Seminar 10 hours

R. Boyd

Classification, etiology, and diagnosis of malocclusion. The various diagnostic modalities used in patient evaluation and treatment planning will be presented. GR DEVEL

F,W, Sp. Prerequisite: Surgery 110 and Specialties 110. Must be a senior. D. Bradford, G. Paiement, R. Maurer Students 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.

D. Bradford

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 rheumatoid patient, orthopaedic rehabilitation, hazards of bed rest, and acute and chronic low back pain. ORTHO SURG

C L. Larsen, CHMC Debenham, SSF Ashley

451. Clinical Pediatric Orthopaedics.

Residents are responsible for patient care in the wards and outpatient clinics including history-taking, physical examinations, laboratory tests, elective surgery, fracture treatment, plaster techniques and consultations. ORTHO SURG

452. Traumatic & Adult Orthopaedics. (1.5 per week) Su, F,W, Sp. SFGH L. Day, SM Jensen, VA Maurer, H Slabaugh

Residents are responsible for patient care in the wards and outpatient clinics including history-taking, physical examinations, laboratory tests, elective surgery, fracture treatment, plaster techniques, and consultations. ORTHO SURG

455. Clinical Sports Medicine. (1) Su, F,W,

J. Glick and Staff

Clinical instruction in the care and management of orthopaedic problems in athletic injuries. Course consists of clinical practice under supervision as well as didactic lectures every third week. ORTHO SURG

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

member (or members) of the Department of

R. Schindler

search faculty involved.

Cheung, Lalwani

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

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

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

400. Didactic Lectures. (2) Su, F,W, Sp. Boles

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 dissections included. OTOLARYN

Otolaryngology

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, EW, Sp. UC Kaplan

Conference includes presentation of patients, study of histories, and discussion of the treatment of the patient in light of modern progress in the field. OTOLARYN

407. Head & Neck Plastic Surgery. (1) Sp. Seminar 2 hours.

Maas

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. Slide presentations, videotape movies, didactic lectures, and anatomic dissections constitute the curriculum. OTOLARYN

410. Temporal Bone Anat & Pathology. (0.5-0.5) F. 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 diagnosis and recommendations for treatment.

OTOLARYN

413. Audiology Conference. (1) Su, F,W,

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) W. Seminar 2 hours.

Jackler, Kaplan, Sooy 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, Sp.

UC Boles, SFGH Wildes, 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 resident has certain administrative, teaching, and clinical responsibilities. OTOLARYN

490. Clinical Otolaryngology-SFGH. (1.5 per week) Su, F,W, Sp. Lee

Interns, under supervision of the attending staff, are responsible for patient care on wards and in the follow-up clinic, including history-taking, examination, and consultation. This rotation is combined with patient-care assignments in the Ophthalmology Service. OTOLARYN

Parasitology

135. Medical Parasitology. (2) Sp. Lecture 2 hours.

Heyneman, Lim

An introduction to the protozoa, helminths, and anthropods that parasitize man. Parasite ecology and disease epidemiology, clinical and diagnostic aspects of parasite diseases and their treatment are considered. EPID & BIOSTAT

102. Systemic Pathology. (3) W. Prerequisite: Pathology 101, Lecture 3 hours, Lab 2 hours.

Ursell

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.

Ursell

Recent advances and clinical concepts of diseases as they affect the following organ systems are presented: reproductive systems, skeletal system, hematopoietic system, and lymph nodes. Emphasis will be on correlation of functional and morphologic characteristics of diseases of organ systems. PATHOLOGY

126. General Pathology. (4) F. Prerequisite: Substantive courses in biochemistry, physiology, histology, microbiology (first quarter, concurrent) or an introduction to immunol-

ogy. If in doubt as to adequacy of preparation, consult the instructor. Lecture 3 hours. Lab 2 hours. Sanchez

Mechanisms and language of disease are discussed, with emphasis on the dynamic nature of fundamental disease processes: cell injury, immunopathology, inflammation, responses to infectious agents, repair, regeneration, hemodynamic derangements, genetic disorders, disturbances of cell growth, and neoplasia. PATHOLOGY

135. General Pathology. (3) E 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 Friend

This course is identical to the lecture portion of Pathology 126. PATHOLOGY

135.01. General Pathology. (3) F. Prerequisite: Completion of prerequisite coursework in human physiology and microbiology or by consent of program director. Lecture 3 hours. Sanchez

Mechanisms and language of diseases are discussed, with emphasis on the dynamic nature of fundamental disease processes such as cell injury, immunopathology, inflammation, response to infectious agents, repair and regeneration, hemodynamic arrangements, genetic disorders, disturbances of cell growth and neoplasia. PATHOLOGY

140.22R. Selected Issues in Geriatrics. (6) Sp. Prerequisite: Forth-year standing. Lecture, seminar, independent study 40 hours/ week.

Bainton

This course examines selected issues in geriatrics: spectrum/continuity of care; cognitive impairment; geropharmacology; problems with mobility, instability, and incontinence. Case presentations and discussion of relevant scientific, clinical, and policy issues occur weekly. Students do literature review, discussion, and presentations. PATHOLOGY

150.01. Surgery and Autopsy Pathology. (1.5 per week) Su, F,W, Sp. Prerequisite: Pathology 101. Consent of instructor. Enrollment limited.

Gelb, Montgomery, Kerschmann, Finkbeiner

This clerkship is designed to acquaint students in the available techniques of tissue analysis and their application to diagnosis and patient care. The student is given training and responsibilities in surgical and/or autopsy pathology similar to those of first-year residents

150.02. Off-Campus Pathology Clerkship. (1.5 per week) Su, F,W, Sp. Prerequisite: Pathology 101 and 102. Bainton

Clinical clerkships in off-campus hospitals approved by the chairperson of the depart150.07. Pathology Research/Service (1.5) Su, F,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. Ferrell

This one-year course, with stipend (starting in Summer quarter), acquaints student-fellows with techniques in autopsy and surgical pathology and their application to diagnosis and patient care, as well as research. The training and responsibilities are similar to residents'. PATHOLOGY

160. General Pathology. (1) F. Prerequisite: Courses in biochemistry, physiology, histology, microbiology, and an introduction to immunology. Lecture 1 hour for ten weeks. Friend

Mechanisms of disease with emphasis on dynamic nature of fundamental disease processes: cell injury, immunopathology, inflammation, responses to infectious agents, repair. regeneration, hemodynamic derangements, disturbances of cell growth, and neoplasia. DENT PUB HLTH

170.01. Clinical Cytology. (3) Sp. Prerequisite: Anatomy 102, Pathology 101 and 102. E. King, E. Hill

Lectures on basic fundamentals of cytology, normal cells, malignant cells, abnormal nonmalignant cells, collection, and preparation methods. Microscopic examination of specimen and correlation of cellular and tissue pathology with colposcopic and clinical findings on examination of the patient. PATHOLOGY

170.04. Anatomy Pathology Conference. (1) F,W, Sp. Prerequisite: Medicine 110 and Surgery 110. Conference 1 hour. Staff

Presentation of selected current cases seen in the hospital pathology laboratory. Discussion of pathological findings, and correlation with clinical and radiologic findings and treatment. PATHOLOGY

170.05. Neuropathology. (2) W. Prerequisite: Pathology 102. Third- or fourth-year standing. Lecture and seminar 2 hours.

D. Davis, DeArmond Emphasis is placed on clinicopathological correlation of neurological diseases by means of study of gross and microscopic material and participation in conferences. PATHOL-OGY

170.08. Studies in Pathology. (1-5) Su, F, W, Sp. Prerequisite: Consent of instructor and chairperson of the department. Staff

Studies in pathology at other institutions with the approval of the chairperson of the department. PATHOLOGY

170.09. Clinicopathological Weekly

Case. (1) W, Sp. Prerequisite: Pathology 101, enrolled in Pathology 102/103. Restriction: Second-year medical students. Seminar 1

Margaretten, Isenberg.

A weekly case discussion conference at which students will generate a differential diagnosis, examine gross and microscopic pathologic specimens, and discuss the pathophysiology of the case. PATHOLOGY

170.10. Immunological Mechanisms in Human Disease. (1.5) F. Prerequisite: one year basic science courses (graduate, medical, or dental) or consent of instructor. Lecture 1 hour. Seminar 0.5 hour. McKerrow

An introductory course in immunopathology and clinical immunology that will review how basic immunological research is applied to diagnosing and understanding human disease. Topics will include transplant immunology, immunoparasitology, immune deficiency diseases, tolerance, and autoimmune diseases. PATHOLOGY

170.11. Problems of Medical Delivery in White Androcentric Society. (1) W. Seminar 1 hour.

Stern Feminist readings: how language can be a tool of oppression: how power structure of society maintains hegemony by defining "pathology"; how women, people of color, and gays are marginalized in this context. Explores how doctor-patient dialogue interferes with medical care. PATHOLOGY

209. Applied Pathology. (3) §W. Prerequisite: Microbiology 126A-B and Pathology 126 or equivalents. J. Greenspan

Weekly seminars are designed to provide students with an understanding of the basic principles of pathology. Emphasis is placed on research; students will critically review current literature in the field, under faculty supervision. PATHOLOGY

215. Laboratory Rotation. (3) § F,W, Sp. Prerequisite: Consent of instructor. Lab 9 hours. Parslow

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

225. Connective Tissue Research Sem. (4) § F,W, Sp. Seminar 4 hours. 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 matrix, interactions in developmental biology and morphogenesis. PATHOLOGY

230. Experimental Pathology Seminar. (2) § F,W, Sp. Prerequisite: Permission of the graduate advisor of the department. Lecture 1 hour. Seminar 1 hour. Parslow

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. PATHOL-OGY

240. Concepts in Parasitic Diseases. (4) § W. Lecture 2 hours. Seminar 2 hours. Bainton, Sakanari, Deneris

This course is for students interested in learning current issues on parasitic diseases (drug design, public health aspects, biochemical parasitology). Invited speakers give seminars on their area of expertise. Students evaluate papers relevant to concepts presented by the speakers. PATHOLOGY

250. Research. (1-8) § F,W, Sp. Staff

PATHOLOGY

297. Molecular Biology of Human Disease. (3) § Sp. Prerequisite: Open to graduate students, housestaff, and MSTP students. Lecture 1 hour, seminar 2 hours: McKerrow

The course is designed to provide students with an up-to-date summary of our knowledge of atherosclerosis with particular emphasis on application of techniques of molecular and cell biology to understand both the pathogenesis and genetics of the disease. PATHOLOGY

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

For graduate students engaged in writing the thesis for the master's degree. PATHOLOGY

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

For graduate students engaged in writing the dissertation for the PhD degree. PATHOL-OGY

301. Teaching Practicum. (3) § F,W, Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 2 hours.

Ferrell

Practice in teaching pathology under faculty supervision. Students supervise laboratory work, conduct conferences, and assist in preparing and grading examinations. Responsibilities are assigned according to the individual's stage of development. PATHOLOGY

405. Dermatopathology. (2) F,W, Sp. Prerequisite: Pathology 101 or equivalent by consent of instructor. Lab 2 hours. Seminar 1 hour

Sagebiel

Survey of inflammatory and neoplastic skin diseases by study of histopathological changes and discussion with emphasis on clinicalpathologic correlations. PATHOLOGY

450. Pathologic Anatomy. (5-10) Su, F, W, Sp. Required for interns; elective for residents. Staff

Theory and methodology of pathologic anatomy, interpretation and correlation of data, and study of literature. PATHOLOGY

455. Electron Microscopy Seminar. (1) W. Prerequisite: Medicine 110 and Surgery 110 and consent of instructor. Lecture 1 hour. Elective for interns and residents Staff

Course covers basic electron microscopic techniques, indications for use of electron microscopy in pathologic diagnosis, and the specific ultrastructural features of normal and diseased tissue. Emphasis is placed on renal biopsy and tumor diagnosis. Documented attendance is required. PATHOLOGY

495. Pathologic Anatomy. (1.5 per week) Su, F,W, Sp. Required for interns. Staff

Theory and methodology of pathologic anatomy, interpretation and correlation of data, and study of literature. PATHOLOGY

106. Clinical Pediatric Dentistry. (1-4) Su,

F,W, Sp. Prerequisite: Satisfactory completion

of Pediatric Dentistry 120 and attainment of

third-year standing. Lab 9 hours, seminar 5

A comprehensive introduction to clinical

pediatric dentistry. Initial techniques will be

taught in Sim. Lab. emphasizing behavioral

management, examination, and treatment

planning. The complexity of the cases will

be supplemented by clinical seminars. GR

increase as skills develop. Clinical practice will

120. Introduction to Pediatric Dentistry.

(1) Sp. Prerequisite: Enrollment and satisfac-

An overview of the physical, psychological,

and dental growth and development of the

pediatric patient from birth through adoles-

proaching the child as an individual in its own

cence, emphasizing the importance of ap-

right rather than as a miniature adult. GR

130. Introduction to Clinical Pediatric

Dentistry. (1) Su. Prerequisite: Satisfactory

completion of Ped Dent 120 and third-year

An intensive review of clinical pediatric den-

will stress the importance of sound diagnosis

definitive comprehensive dental care. Specific

139. Clinical Pediatric Dentistry. (0-4) Su,

F,W, Sp. Prerequisite: Ped Dent 130 and third-

year standing. Clinic 110 hours, seminar 5

A comprehensive introduction to clinical

pediatric dentistry in general dental practice.

Sound behavior management, examination,

and treatment planning will be stressed. The

complexity of cases will be increased as the

supplement clinical practice. GR DEVEL

students' skills develop. Clinical seminars will

186.Adv Pediatric Dent Seminars (1) F,

W, Sp. Prerequisite: Completion of third-year

Pediatric Dentistry Lecture Course 130.

Approval of instructor in charge of course.

and treatment planning as a prerequisite to

attention will be paid to parent and patient

tal procedures and techniques. The course

standing. Lecture 9 hours per quarter.

tory standing in second-year dental class.

Lecture 10 hours per quarter.

Braham and Staff

Braham and Staff

management. GR DEVEL

hours per quarter.

Braham and Staff

hours, clinic 110 hours per quarter.

Braham and Staff

DEVEL

DEVEL

Pediatric Dentistry

Pathology

Horney and the set of the set of

100. Medical Parasitology. (1) Sp. Lecture 1 hour. Lab 4 hours (optional). Sakanari

An introduction to parasitic protozoa and helminths and the human disease they produce. Parasite epidemiology, biology, and life cycles, diagnosis, clinical aspects, treatment, and control are discussed in the lectures and labs. Laboratory demonstrations keyed to the lectures are displayed and an instructor is available for small group discussions. EPID & BIOSTAT

101. General & Systemic Pathology. (4) F. Prerequisite: 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. Ursell

Mechanisms and language of disease are discussed, with emphasis on cell injury, inflammation, infectious agents, repair, regeneration, hemodynamic derangements, neoplasia. Recent advances and classical concepts of diseases as they affect the heart and blood vessels. lungs, gastrointestinal tract are presented. PATHOLOGY

ment and the dean, PATHOLOGY

150.05. Research. (1.5 per week) Su, F,W,

McKerrow, Parslow, Yen

The staff of the Pathology Department have various ongoing research interests and have a number of projects for students to work on. Requires approval of the Dean and the Department. Obtain necessary forms from the Office of Curricular Affairs. PATHOLOGY

150.06. Surgical Pathology-VMC. (1.5 per week) F,W, Sp. Prerequisite: Pathology 102 and consent of instructor H.M. Price, Bezmalinovic

Clerkship is designed to acquaint students with available techniques of tissue analysis, from light microscopic to micromolecular levels, and their application in diagnosis and surgical care. Experience includes postmortem examination, review of surgical biopsies and frozen sections, electron microscopy. PATHOLOGY

180.01. General Pathology. (3) E 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. Staff

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

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

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

400. Pathology & Lab Med Seminar. (1)

F.W. Sp. Interns and residents. Prerequisite: Medicine 110 and Surgery 110 or consent of instructor. Seminar 1 hour.

Staff

Recent developments in diagnosis and research in pathology and laboratory medicine are discussed by faculty and guest speakers. PATHOLOGY

401. Special Topics Seminar. (Units to be arranged) Su, F,W, Sp. Interns and residents. Staff

Seminars focusing upon the pathology of specific organ systems are conducted by specialists. Emphasis is on the correlation between clinical manifestations of the disease and pathologic findings. PATHOLOGY

402. Pathology Research. (1-8) Su, F,W, Sp. Interns and residents.

Staff

Students, under supervision, pursue original investigation in pathology and allied subjects. Investigators review the literature, make observations, and correlate physiological with pathological concepts. PATHOLOGY

or 1 hour for 8, 10 wee

Ramos

Seminars on advanced pediatric dentistry, covering behavior and behavioral management techniques, advances in pediatric dental restorative techniques and materials, dental management of the special patient, preventive orthodontics. Emphasis on literature reviews. Course is of particular interest for students interested in the specialty of Pediatric Dentistry. GR DEVEL

187. Pediatric Hospital Dentistry. (1-1.5)

Su, F,W, Sp. Prerequisite: Completion of 3rdvear Pediatric Dentistry 130. Approval of instuctor. 30-50 hours in O.R.

Braham

Experience is provided in history-taking, admissions procedures, hospital dental protocol, laboratory tests, and chart documentation. Opportunity to work with the instructor in the hospital operating room providing care for handicapped and other refractory management cases, using general anesthetic. GR DEVEL

406. Adv Pediatric Dentistry Seminar.

(1) F,W, Sp. Prerequisite: Enrollment in postdoctoral pediatric dentistry programs or consent of instructor. Seminar 10 hours.

Pang and Staff

This course involves discussion on all aspects of clinical practice of pediatric dentistry, case presentations by the students and faculty from 407. Literature Review. (1.5) Su, F,W, Sp. Prerequisite: Enrollment in postdoctoral pediatric dentistry programs or consent of instructor. Seminar 15 hours. Pang and Staff

Students will review the basic literature that is the foundation for the clinical practice of pediatric dentistry. The course will assist students in developing skills to evaluate literature and analyze research methods critically. **GR DEVEL**

408. Pediatric Physical Diagnosis. (2) Su, F,W, Sp. Prerequisite: Enrollment in 1st or 2nd year of postdoctoral pediatric dentistry program or consent of instructor. Seminar 10 hours. Clinic 30 hours. Offered in alternate years. Offered 1996-97.

Pang and Staff

This course is designed to provide knowledge of clinical pediatrics and will include didactic and clinical experience in history-taking and physical diagnosis. GR DEVEL

409. Pediatric Dentistry Clinic. (4-6) Su, F,W, Sp. Prerequisite: Enrollment in postdoctoral pediatric dentistry programs or consent of instructor. Clinic 120-180 hours.

Pang and Staff

This course will provide direct clinical care with the child patient in which the student will learn to diagnose the patient's problem, design a treatment approach, carry out the necessary records, treat the patient, and complete final records for discharge. GR DEVEL

409.10. Hospital Dentistry. (1-3) Su, F,W, Sp. Prerequisite: Enrollment in postdoctoral pediatric dentistry programs or consent of instructor. Clinic 30-90 hours. Pang and Staff

The student will learn to prepare patients for treatment and perform dental rehabilitation under general anesthesia in the operating room in both inpatient and outpatient settings according to hospital protocols. GR DEVEL

409.20. Conscious Sedation. (1.5) Su, F,W, Sp. Prerequisite: Enrollment in postdoctoral pediatric dentistry programs or consent of instructor. Clinic 45 hours. Pang and Staff

The course is designed to teach methods and rationale for administering medications, and the use of monitoring techniques during conscious sedation. The student will administer the medications and monitor the patients before, during, and after the procedure under the direct supervision of a member of the

410. Advanced Pediatric Dentistry (1) F. Lecture 1 hour.

Ramos-Gomez

faculty. GR DEVEL

This lecture series will focus on behavior management of children in the outpatient and inpatient settings. GR DEVEL

411. Intro Advanced Pediatric Dentistry. (1) Su. Prerequisite: Enrollment in 1st-year postdoctoral pediatric dentistry program or consent of instructor. Seminar 10 hours.

Pang and Staff This course is an introduction to the philosophies and techniques of rendering clinical treatment to patients in pediatric dentistry. GR DEVEL

110. Ped Core Clerkship-UC-SFGH-L-C. (1.5 per week) Su, F,W, Sp. Prerequisite: Core curriculum in basic sciences. Loeser

Practical experience in the ward, newborn nursery, and outpatient clinics with emphasis on case assignments. Teaching and supervision by attending and resident staffs. Required seminars cover aspects of pediatrics, infectious diseases, and child psychiatry. PEDIATRICS

140.01A. Ambulatory Pediatrics-UC. (1.5 per week) F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Pantell

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 emergency room. PEDIATRICS

140.01B. Ambulatory Pediatrics-SFGH (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Brown, Coulter

Students evaluate and treat children with a variety of acute and chronic conditions. Patients with a high degree of acuity. There are morning conferences and ER case reviews. Supervision is provided by senior residents, chief resident, and faculty. PEDIATRICS

140.01D. Outpt Pediatric Clerkship-CHMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor.

Wright

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 Clkshp-

CHMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Wright

Students are assigned patients. They are supervised by attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences when their patients are being discussed, as well as all daily formal teaching conferences. PEDIAT-RICS

140.01F. Outpt Pediatric Clkshp-KP. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Applebaum

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 Clkshp-K. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Applebaum, Mohr

Students are assigned patients under supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for

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

Clinical clerkship in off-campus hospitals approved by the chairperson of the department and the dean. PEDIATRICS

140.03. Outpatient Pediatrics-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110.

Bayatpour

Experience caring for sick and well children with 27,000 patient visits/year. Preventive medicine and anticipatory guidance along with principles of growth and development. All activities closely supervised by either senior residents or faculty. Daily morning conferences, chart rounds, assigned readings. PEDIATRICS

140.04. Pediatric Cardiology. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Open to UCSF students only.

Brook

Experience in clinical evaluation of children with cardiac abnormalities is emphasized. Daily ward rounds on pediatric cardiology patients, attendance at designated cardiac surgical procedures, catheterization, weekly catheterization conference, extensive reading assignments, and daily attendance in private office setting are included. PEDIATRICS

140.05. Pediatric Private Practice. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Open to UCSF students only.

L.P. Smith and Staff

Working experience with a pediatrician on the clinical faculty as the pediatrician sees patients in the office and in the hospital. Student may select time in small group, large group, or subspecialty practice, or a combination of these. PEDIATRICS

140.07. Developmental Pediatrics in Fresno. (1.5 per week) W, Sp. Prerequisite: Pediatrics 110 D.M. Snyder

Students learn to identify children with developmental disabilities and direct their remediation to allow for achievement of their greatest potential.Various settings are used in acquiring skills in developmental assessment. PEDIATRICS

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. Continuity of care is encouraged and opportunity exists to follow patients admitted to ward. PEDIATRICS

140.10. Pediatric Hematology/Oncology-UC-SFGH-CHMC. (1.5 per week) Su. F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. Open to UCSF students only. Koerper, Lubin, Mentzer The student will participate in outpatient

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 instructors. PEDIATRICS

140.17. Genetics-UC. (1.5 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor. C. Epstein, M. Golabi, S. Packman

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. PEDIAT-RICS

140.21. Pediatric Pulmonary & Allergy. (1.5 per-week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. **Cropp**, Shames

Students participate in the activities of the pulmonary and allergy service, in the outpatient and inpatient settings, as well as conferences, journal clubs, etc. The course will emphasize clinical experience with common pediatric pulmonary problems, e.g., asthma, cystic fibrosis. PEDIATRICS

140.22H. Developmental Cardiopulmonary Pathophysiology. (1.5 per week) W. Prerequisite: Fourth-year standing. Soifer, Bristow, Froh

This course is designed to provide students with an understanding of the development of the cardiovascular and pulmonary systems by studying diseases in the premature (respiratory distress syndrome), newborn (pulmonary hypertension syndrome), infant (congenital heart disease), and child (cystic fibrosis). PE-DIATRICS

140.26. Comprehensive Pediatric Care-KP. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Shum

Within the country's largest prepaid health care program, students will participate in office visits, urgent ambulatory care, health education, and inpatient care. They will work with staff and resident physicians, nurse practitioners and health educators. PEDIATRICS

140.27. Inpatient Pediatrics-KP. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Shum

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

140.30. Gastroenterology & Nutrition. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Heyman

140.35. Infectious Disease-UC & SFGH (1.5 per week) Su, F,W, Sp. Prerequisite: Pediatrics 110. S. Kohl

Students will learn principles of diagnosis and management of common infectious conditions, infectious complications in the immunocompromised host, and neonatal infections; will learn to properly interpret microbiologic data and use the microbiology laboratory. 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, Shafer

Clinical rotation on outpatient/inpatient adolescent medical service. Clinical experience will include general adolescent clinic, adolescent gynecology clinic, and inpatient consultation on adolescent medical and psychiatric wards. PEDIATRICS

140.38. Behavioral & Developmental

Pediatrics. (1.5/week) Su, F,W, Sp. Prerequisite: Pediatrics 110 and consent of instructor. Lecture 1 hour. Conference 10 hours. Clinic 4 hours. Tanner

Students are included in all phases of a comprehensive evaluation for a child with school and learning problems. Physical, neurological, psychological, speech and language, and educational assessments as well as child and family interviews provide a truly biopsychosocial perspective. PEDIATRICS

140.39. Continuity Care Chinic. (1) Su, F, W, Sp. Prerequisite: Third year or Core Clerkship completed.

Loeser

Students see patients one half day per week over 6-9 months, following a primary care panel of patients. Approximately 4-6 positions are available: Parnassus, Mount Zion, SFGH, Kaiser-SF East Bay Children's, Kaiser-Oakland, or community-based practice. This course is not scheduled through the elective lottery nor at individual sites; contact the Department of Pediatrics to schedule. PEDI-ATRICS

150.04. Research in Pediatrics-UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 and Pediatrics 110. Shapiro and Staff

Student research projects under guidance of faculty members. Programs must be approved by instructors. Students may initiate or continue research programs under supervision of faculty members. PEDIATRICS

160.01. Clinical Correlation in Peds-UC. (2) Su, F, W, Sp.

Shapiro .

Students prepare case presentations weekly from patients on the pediatrics wards. Course correlates patients' problems with work 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

Pediatrics

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420. Family Interviewing Seminar. (1) Su, F, W, Sp. Prerequisite: Graduate-level student in health sciences health care providers only. Consent of instructor. Seminar 2 hours Tanner and Staff

Seminar topics include family systems, communication patterns, family interviewing, presenting a difficult diagnosis, psychosomatic illness, chronic illness, and common behavioral problems. Teaching methods include group discussion, role play, and video taping. Emphasis is placed on learning through experience. PEDIATRICS

422. Behavioral/Developmental Core

Curriculum. (1.5) F,W, Sp. Prerequisite: Post-MD or graduate nursing students and consent of instructor. Seminar 6 hours. Tanner and Staff

Lectures and discussion of child development theory, clinically relevant research, and related common behavioral issues. Emphasis is on applicability of behavioral pediatrics in clinical practice. Includes screening, temperament, attachment, and hospitalization. Supervised experiences at daycare centers and schools. Reading assignments. PEDIATRICS

424. Neurodevelopmental Assessment and Therapy. (1) W. Prerequisite: By instruc-

tor approval; pediatric residents and fellows in behavioral/developmental pediatrics. Lecture 1 hour. Lab 1 hour

Tanner and Staff

Overview of theories and principles of neuromotor development and treatment modalities available for children with developmental disabilities. Includes assessing normal and abnormal sensory-motor development, neurodevelopmental therapy, sensory integration, pre-speech, and feeding therapy. Lecture, discussion, audiovisual aids, and patient demonstration. PEDIATRICS

451. Clinical Pediatrics-SFGH (1.5 per week) Su, F, W, Sp. Residents. Taeusch

Residents, under supervision, are responsible for patient care in the wards, communicable disease section, and outpatient clinic including history-taking, physical examination, laboratory tests, diagnosis, and treatment. Emphasis is on diagnosis and management of infection trauma, and pediatric emergencies. PEDIATRICS

490. Clinical Pediatrics-SFGH (1.5 per week) Su, F,W, Sp. Taeusch

Interns rotate through newborn nursery, pediatric wards and clinic, communicable diseases ward, and emergency room. They are responsible for the care of patients, under the direction of the attending staff, including history taking, physical examination, laboratory tests, and consultation. PEDIATRICS

Periodontology

130. Introduction to Periodontal Therapy. (1) Su. Prerequisite: Oral Biology 108.01, 108.02, 108.03. Lecture 10 hours per quarter.

Armitage

Introduction to the diagnosis and treatment of periodontal diseases. Emphasis will be placed on examination, diagnosis, and treatment planning. The rationale and techniques for treatment of gingivitis and early periodontitis will be discussed. STOMATOL

131. Principles of Periodontal Therapy. (1) F. Prerequisite: Perio 130. Lecture 10 hours per quarter.

Armitage

Principles of periodontal maintenance therapy. Role of local and systemic factors in the pathogenesis of periodontitis. Epidemiology and natural history of periodontal diseases. The rationale and techniques for the treatment of advanced periodontitis will be dis-cussed. STOMATOL

132. Introduction to Periodontal Surgery. (1) W. Prerequisite: Perio 131. Lecture 2

Armitage

Introduction to the role of surgical interven-

162. Periodontal Therapy. (1) W. Prerequisite: Perio 161. Lecture 1 hour. Armitage

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. STOMATOL

170A-B. Histopathology of Periodontium. (2) Su, F. Lecture 1 hour. Lab 3 hours.

Dienstein Dynamics of inflammation and its role in the periodontal tissues. STOMATOL

177. Periodontal Surgery Seminar. (2) F, W, Sp. Prerequisite: DDS degree and consent of instructor. Lecture 2 hours. Raust

Study in depth with literature review and seminar discussions on surgical techniques used to treat lesions involving the hard and soft tissue of the periodontium. STOMATOL

180. Periodontics in General Practice.

(1) W. Lecture 1 hour. Nathan Implementation of the skills and knowledge

of periodontology in the private practice environment. STOMATOL 180.01. Advanced Perio Lit. (1) F. Prereq-

uisite: Perio 130 and consent of instructor. Seminar 1 hour. Abe

Study in depth, with literature review and seminar discussions of areas of periodontology having major clinical significance. STOMATOL

180.02. Advanced Perio Lit. (1) W. Prerequisite: Perio 131 and consent of instructor. Seminar 1 hour.

Abe Study in depth, with literature review and seminar discussions of areas of periodontology having major clinical significance. STOMATOL

180.03. Advanced Perio Lit. (1) Sp. Prerequisite: Perio 132 and consent of instructor. Seminar 1 hour.

Abe

Study in depth, with literature review and seminar discussions of areas of periodontology having major clinical significance. STOMATOL

181. Periodontal Surgical Techniques. (1) F. Prerequisite: Perio 132 or consent of instructor. Lecture 1 hour.

Levine Surgical techniques are presented which may be used to treat lesions occurring in the hard and soft tissues of the periodontium. STOMATOL

182. Multidisciplinary Case Management (1) W. Prerequisite: Periodontology 132. Two hours/week over 5 sessions.

Engert, Pasquinelli An introduction to the concept of comprehensive dental care through the integration of the clinical disciplines. The relationship between periodontics, orthodontics, and restorative dentistry will be emphasized. Predictable long-term results are the therapeutic objective of this approach. STOMATOL

189.01. Clinical Periodontics. (0-9) F,W, Sp. Prerequisite: Perio 139. Clinic variable. Taggart

Continuation of clinical experience beyond the level of Periodontology 139 and Periodontology 149. Diagnosis, treatment planning, management and care of patients with advanced periodontal disease or the need for advanced therapy, including periodontal surgery. STOMATOL

198. Supervised Study. (1-5) Su, F,W, Sp. Armitage, Johnson, Richards, Bramanti, Levine, Taggart

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

401.01 Clinical Periodontics: Examination and Treatment Planning. (1) Su. Prerequisite: Enrollment in postgraduate dental program. Seminar 10 hours. Kao, Ancell, Zingale, Fagan This is a didactic course that will introduce various aspects of recognizing, diagnosing, and managing patients with periodontal disease. Factors that influence the treatment and management of these patients will be reviewed.STOMATOL

401.02 Clinical Periodontics: Examination and Treatment Planning. (1) F. Prerequisite: Enrollment in postgraduate dental program. Seminar 10 hours. Kao, Ancell, Zingale, Fagan This course will review the diagnosis and managment of periodontal disease patients in a clinical case presentation format. STOMATOL

401.03 Clinical Periodontics: Examination and Treatment Planning. (1) W. Prerequisite: Enrollment in postgraduate dental program. Seminar 10 hours.

Kao, Ancell, Zingale, Fagan This course will review the diagnosis and managment of periodontal disease patients in a clinical case presentation format. STOMATOL

401.04 Clinical Periodontics: Examination and Treatment Planning. (1) Sp. Prerequisite: Enrollment in postgraduate dental program. Seminar 10 hours. Kao, Ancell, Zingale, Fagan This course will review the diagnosis and managment of periodontal disease patients in a clinical case presentation format. STOMATOL

404. Applied Anatomy. (1) Sp. Prerequisite: Enrollment in postgraduate specialty program. Lecture 1 hour. Ryder

Course covers anatomy as it relates to anesthesia and periodontal surgery. STOMATOL

406.01. Hospital Anesthesiology. (6) Su. Prerequisite: Consent of instructor. Seminar 1 hour. Clinic 16 hours. Navarro

Practical course in operating room anesthesia. Instruction in hospital administration, physical and preanesthesia evaluation of the patient, monitoring of vital signs, administration of intravenous psychosedation, general anesthesia, and handling of resultant medical emergencies. Clinical instruction is supplemented by seminars. STOMATOL

406.02. Hospital Periodontics. (4) F. Prerequisite: Perio 419.01. Lecture 4 hours. Navarro

Clinical periodontics integrated into the regular medical and rehabilitative activities of MZ. Course provides patients with quality dental care, appreciation for preventive dentistry, and concept of total health care. Students are exposed to various medical conditions. STOMATOL

406.03. Hospital Periodontics. (4) W. Prerequisite: Perio 419.02. Lecture 4 hours. Navarro

Clinical periodontics integrated into the regular medical and rehabilitative activities of MZ. Course provides patients with quality dental care, appreciation for preventive dentistry, and concept of total health care. Students are exposed to various medical conditions. STOMATOL

406.04. Hospital Periodontics. (4) Sp. Prerequisite: Perio 419.03. Lecture 4 hours. Navarro

Clinical periodontics integrated into the regular medical and rehabilitative activities of MZ. Course provides patients with quality dental care, appreciation for preventive dentistry, and concept of total health care. Students are exposed to various medical conditions. STOMATOL

413.01. Treatment Planning & Surgery. (1) F. Seminar 1 hour.

Wirthlin Students present and discuss management of their cases that are either planned for treat413.04. Treatment Planning & Surgery. (1) SS1. Seminar 1 hour. Wirthlin

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. STOMATOL

416. Advanced Periodontology. (0-2) Su, F,W, Sp. Seminar 1 hour.

Levine Each student will attend 20 literature-review sessions on topical issues in periodontology. STOMATOL

416.01. Original Investigation. (1-5) F. Prerequisite: Enrollment in postgraduate specialty program or consent of instructor. Lab 3-15 hours. Armitage

Original research under the supervision of a mentor, STOMATOL

416.02. Original Investigation. (1-5) W. Prerequisite: Enrollment in postgraduate specialty program or consent of instructor. Lab 3-15 hours.

Armitage Original research under the supervision of a

mentor. STOMATOL

416.03. Original Investigation. (1-5) Sp. Prerequisite: Enrollment in postgraduate specialty program or consent of instructor. Lab 3-15 hours.

Armitage Original research under the supervision of a mentor. STOMATOL

419.01. Clinical Periodontics. (5) E Prerequisite: Enrollment in postgraduate specialty program. Clinic 15 hours. Wirthlin

Clinical procedures in periodontology therapy. STOMATOL

419.02. Clinical Periodontics. (5) W. Prerequisite: Enrollment in postgraduate specialty program. Clinic 15 hours.

Wirthlin Clinical procedures in periodontology therapy. STOMATOL

419.03. Clinical Periodontics. (5) Sp. Prerequisite: Enrollment in postgraduate specialty program. Clinic 15 hours. Wirthlin

Clinical procedures in periodontology therapy. STOMATOL

419.04. Clinical Periodontics. (5) SS1. Prerequisite: Enrollment in postgraduate specialty program. Clinic 15 hours. Wirthlin

Clinical procedures in periodontology therapy. STOMATOL

423.01. Adv Treatment Planning & Surgery. (1) F. Seminar 1 hour. Wirthlin

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. STOMATOL

423.02. Adv Treatment Planning & Surgery. (1) W. Seminar 1 hour. Wirthlin

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. STOMATOL

423.03. Adv Treatment Planning & Surgery. (1) Sp. Seminar 1 hour. Wirthlin

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.

429.04. Periodontal Therapy. (6) Sp. Prerequisite: Perio 429.03. Clinic 18 hours. Wirthlin

Advanced surgical techniques in management of periodontal lesions. STOMATOL

Pharmaceutical Chemistry

111. Organic Chemistry. (2) F. Lecture 2 hours.

Miller

Survey of basic concepts and topics in pharmaceutical chemistry, including acid/base behavior, stereochemistry, reaction mechanisms, carbohydrates, amino acids, and peptides. PHARM CHEM

112. Organic Chemistry. (2) W. Prerequisite: PC 111. Lecture 2 hours. Miller

CHEM

CHEM

Kahl

Wang

ture 3 hours.

134. Lecture 2 hours.

Oppenheimer

E. Lin, W. Sadée

Staff

fluids. PHARM CHEM

Gibson

Ortiz de Montellano

Continuation of PC 111 with emphasis on oxidation/reduction reactions, lipids, heterocyclic compounds, molecules containing sulfur and phosphorus and biopolymers. PHARM CHEM

113. Bioanalytical Chemistry. (2) Sp. Lecture 1 hour. Lab 4 hours. Kahl Lecture and laboratory experiments in iden-

tification and quantification of drugs and

metabolites in biological fluids. PHARM

120. Principles of Pharm Chem. (3) § F.

A study of physicochemical and biological

factors which contribute to drug action; in

and related organic compounds. PHARM

Chemistry. (2) W. Prerequisite: Pharmaceu-

tical Chemistry 120 and concurrent enroll-

ment in Pharmacology 121. Lecture 2 hours.

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 & Cardiovasc Drugs. (3)

Sp. Prerequisite: Pharmaceutical Chemistry

A systematic survey of the chemical features

of synthetic drugs, including correlations

between chemical structure and biological

activity. Emphasis on drugs affecting the au-

tononic nervous and cardiovascular systems

132. Drugs Acting on CNS. (3) W. Prereq-

uisite: Pharmaceutical Chemistry 120. Lec-

A systematic survey of the chemical features

of synthetic drugs, including correlations

tral nervous system. PHARM CHEM

between chemical structure and biological

activity. Emphasis on drugs affecting the cen-

134. Antibiotics/Anticancer Drugs. (2) F.

Prerequisite: Pharmaceutical Chemistry 120

and concurrent enrollment in Pharmacology

A systematic survey of the chemical features

of synthetic drugs, including correlations

neoplastic drugs. PHARM CHEM

(3) W. Lecture 2 hours. Lab 3 hours.

between chemical structure and biological

activity. Emphasis on anti-infective and anti-

157. Bioanalytical Theory & Techniques.

Analytical theory and techniques for deter-

mining drugs and metabolites in biological

170. Group Studies. (1-4) § F,W, Sp. Prereq-

Group studies of selected topics in pharma-

uisite: Consent of instructor and adviser.

as well as renal function. PHARM CHEM

120. Lecture 3 hours.

121. Principles of Pharmaceutical

vivo and in vitro biotransformations of drugs

Prerequisite: Chemistry 113. Lecture 3 hours.

tion in the treatment of periodontal diseases Emphasis will be placed on the rationale for surgical intervention. Advantages and disadvantages of various surgical approaches will be discussed. STOMATOL

133. Advanced Periodontal Treatment. (1) Sp. Prerequisite: Perio 131. Lecture 2 hours

Armitage

Advanced periodontal therapy for the general practitioner. Topics covered include: manage ment of occlusal problems, mucogingival defects, periodontal therapy in medically compromised patients, and periodontal regenerative techniques. STOMATOL

139. Clinical Periodontal Therapy. (0-4) Su, F.W. Sp. Prerequisite: Perio 129. Clinic 3 hours. Seminar 1 hour.

Armitage

Treatment of a variety of periodontal diseases under the direct supervision of faculty. Small seminar and discussion groups will review diagnosis and treatment modalities. STOMATOL

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

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

202A-B. Molec & Biochem Basis of Disease. (2-2) § F.W. Prerequisite: Biochemistry

100A-B or equivalent introduction to biochemistry. Lecture 2 hours. Seminar 1 hour. Bhatnagar

Course reintroduces students to the principles of biochemistry and molecular biology in relation to current concepts in the molecular basis of major disease entities including cancer, metabolic disorders, fibrotic and degenerative disorders of connective tissues, inflammation, and wound healing. STOMATOL

209. Literature Review. (2) § F,W, Sp. Seminar 2 hours.

Staff

Seminar designed to correlate basic sciences with problems in periodontology and evaluate concepts in the direction of research. clinical application, and teaching. Selected papers in the literature are reviewed and evaluated. Other instructors are invited to participate. STOMATOL

ment or currently under treatment. They are expected to defend their treatment plan and therapeutic procedure based on relevant literature and clinical experience. STOMATOL

413.02. Treatment Planning & Surgery. (1) W. Seminar 1 hour.

Wirthlin

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. STOMATOL

413.03. Treatment Planning & Surgery. (1) Sp. Seminar 1 hour. Wirthlin

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. STOMATOL

STOMATOL

423.04. Adv Treatment Planning & Surgerv. (1) SS1. Seminar 1 hour. Wirthlin

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. STOMATOL

429.01. Periodontal Therapy. (6) Su. Prerequisite: Perio 419.01 or 419.02 or 419.03 or 419.04. Clinic 18 hours. Wirthlin

Clinical procedures in periodontal therapy. This course is an enlargement on earlier clinical experience. STOMATOL

429.02. Periodontal Therapy. (6) F. Prerequisite: Enrollment in postgraduate periodontal therapy. Clinic 18 hours. Wirthlin

Clinical procedures in periodontal therapy. STOMATOL

429.03. Periodontal Therapy. (6) W. Prerequisite: Perio 429.02. Clinic 18 hours. Wirthlin

Advanced surgical techniques in management of periodontal lesions. STOMATOL

ceutical 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 chairperson of the department. PHARM CHEM

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

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

202A. Macromolec Struc & Molec De-

sign. (3) § Sp. Prerequisite: Consent of instructor. Offered in alternate years (alternates with 202B). Offered 1996-97. Lecture 3 hours.

Kuntz, Cohen, Shafer

Principles of protein engineering, small molecule design and genetic engineering as applied to pharmaceutical chemistry and the design of bioactive materials. Discussion of small molecules, oligopeptides, oligonucleotides, and macromolecules as potential drugs will be included. PHARM CHEM

202B. Topics in Nucleic Acid Structure.

(2) § W. Prerequisite: Consent of instructor. Offered in alternate years (alternates with 202A). Not offered 1996-97. Lecture 2 hours. Shafer, Shetlar

Principles and recent advances in nucleic acid

204. Introduction to Computer Programming. (3) § W. Prerequisite: Consent of Instructor. Lecture 3 hours. 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

206. Laboratory Rotation in Pharma-

ceutical Chemistry. (1-5) § F,W, Sp. Prerequisite: Consent of instructor. Lab 3-15 hours. Staff

A laboratory rotation course to familiarize new departmental graduate students with various approaches to research in the pharmaceutical sciences. PHARM CHEM

214. Adv Kinetics of Absorp & Disposn.

(3) §W. Prerequisite: Pharmaceutical Chemistry 213 and Biochemistry 202 or equivalents. Lecture 2 hours. Lab 3 hours. Benet and Staff

Advanced consideration of pharmacokinetics including multicompartment models, assessment of intrinsic absorption and disposition parameters, nonlinear kinetics, and correlation of pharmacological response with the concentration-time course of a drug. Conference involves problem-solving exercises. PHARM CHEM

215. Biotechnology Industrial Rotation. (1-4) § F,W, Sp. Prerequisite: Graduate student standing/maximum of 20 students/consent of instructor. Lab 3-12 hours. Hunt and Staff

The primary research and scientific goals of this course are to develop relevant problemsolving skills by exposing students to the differences in research and academic and industrial settings. The student and the instructor will formulate written goals and objectives; the industrial mentor will provide evaluations to both the student and the instructor. PHARM CHEM

217. Fundamentals of Targeted Drug

Delivery. (2) § Sp. Prerequisite: One quarter of physical chemistry, kinetics and pharmacology, or consent of instructor. Hunt

The physical, chemical, biotechnological, and other techniques that are proposed to deliver active molecules to specific target sites in vivo are selectively explored in conjunction with toxological motivations for achieving targeted drug delivery. Feasibility and optimization are discussed. PHARM CHEM

219. Enzyme Mechanisms. (3) § Sp. Lecture 3 hours Santi

In-depth examination of specific enzyme reactions or systems, with emphasis on structure-function. PHARM CHEM

220. Research Conf in Pharmaceutics. (1) § F,W, Sp. Lecture 1 hour. Benet, Szoka

A program involving the presentation of core material in pharmaceutical chemistry in the pharmaceutics pathway. The presentations are made by graduate students and examination is by a series of cumulative examinations. PHARM CHEM

221. Research Conf in Pharm Chem. (1) § F,W, Sp. Prerequisite: Graduate standing in the Department of Pharmaceutical Chemistry. Lecture 1 hour. lames

A series of weekly research conferences in medicinal chemistry given by visiting lecturers, faculty, and advanced graduate students. PHARM CHEM

222. Physical Chemistry Seminar. (1) § F. W, Sp. Prerequisite: Consent of instructor. Lecture 1 hour. Kuntz and Staff

Topics of current research interest in physical and biophysical chemistry. PHARM CHEM

225A-B. Graduate Research Opportunities. (1-1) § F.W. Prerequisite: Graduate standing in the Department of Pharmaceutical Chemistry. Lecture 1 hour. Craig

A series of weekly presentations of the research interests of the basic science faculty. he purpose is to acquaint new grad students with the research in the Departments of Pharmacy and Pharmaceutical Chemistry. PHARM CHEM

236. Transport & 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. Prerequisite: Pharm Chem 236, Chemistry 260. Lecture 2-3 hours. Szoka, Guy

Biophysical consideration of membrane structure; passive and active transport mechanisms and implications for targeted and controlled drug delivery. PHARM CHEM

238. Chemistry and Physics of Poly-

meric Systems. (2-3) §W. Prerequisite: Pharm Chem 236, Chemistry 260. Lecture 2-3 hours

Siegel and Staff

Chemistry and physics of polymers relevant to the design and function of programmable drug delivery systems. PHARM CHEM

239. Biotechnology Seminar. (1) § F,W, Sp. Prerequisite: Graduate student standing/ maximum of 20 students/consent of instructor. Seminar 1 hour. Hunt and Staff

This course will include lectures at UCSF from faculty and visiting scientists on topics at the cutting edge of biotechnology research in the Bay Area. Students will be able to observe and participate in exchanges of information that have the potential to redirect their research and their careers. PHARM CHEM

244. Scientific Communications. (2) § F. Lecture 2 hours.

Klein, Babbitt, Hawkes

Verbal and written scientific communications skills for poster presentations, oral presentations and research proposal writing. Subject material will be based on literature relevant to each student's interest and on the student's own thesis research PHARM CHEM

250. Research. (1-8) § F,W, Sp. Staff

PHARM CHEM

260. Introduction to Molecular Modeling. (3) Sp. Prerequisite: Familiarity with UNIX. Lecture 3 hours.

Ferrin, Klein, Huang, Howard

Introduction to methods used in molecular modeling, including molecular visualization, molecular mechanical force fields and their application, structure-based drug design, and a review of the uses and limitations of molecular modeling tools. 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 students' interests by faculty within the area of specialization. PHARM CHEM

271. Pharmacokinetics in Clinical Drug Development. (4) §W. Prerequisite: Consent of instructor. Lecture 3 hours. Benet, Øie, Upton, Sheiner, Sambol Although significant time will be devoted to theoretical aspects of the various topics, the focus will be on practical examples (real data) in how to design and interpret pharmacokinetic studies for use as a component of the regulatory drug approval process. PHARM CHEM

272. Advancerd Drug Delivery. (1-5) § Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Workshop 1 hour. Project 1 hour. Siegel, Hunt, Szoka, Cullander, Heller This course is focused on topics in advanced graduate seminar, covering topics in drug delivery. Specific topics will be announced prior to the beginning of the class. PHARM CHEM

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

For graduate students engaged in writing the thesis for the master's degree. PHARM CHEM

299. Dissertation. (0) § F,W, Sp. Prerequisite: acy and permission of the graduate adviser.

100C. Medical Pharmacology. (3) Sp. Prerequisite: Pharmacology 100A and 100B or consent of instructor. Lecture 3-4 hours. Conference 2 hours.

Masters, Trevor, Mitchison, Vale Pharmacology of the central nervous system and selected topics in endocrine and cancer drug therapy. PHARMACOL

121. Pharmacology. (1) W. Prerequisite: Concurrent enrollment in Pharmaceutical Chemistry 121. Lecture 1 hour. Masters Systematic survey of action and uses of drugs

with emphasis on steroids, hormones, and drugs for metabolic disorders. PHARMACOL

125. Pharmacology & Toxicology. (4) Sp. Prerequisite: Biochemistry 120A-B and Physiology 120 and 125. Lecture 3 hours. Conference 2 hours. Lansman

Systematic survey of action and uses of drugs acting on autonomic nervous and cardiovascular systems and the kidneys. PHARMACOL

126B-C. Dental Pharmacology. (2, 4) W, Sp. Prerequisite: Physiology 110. Lecture 2 hours W; 3 hours Sp. Lab 3 hours Sp. Weiss

Objective of the course is to acquaint dental and dental hygiene students with the fundamentals of pharmacology. Various classes of drugs are examined in regard to actions, absorption, fate, excretion, and toxicity. Agents useful in dentistry are emphasized. PHARMACOL

130. Clinical Toxicology. (2) Sp. Prerequisite: Pharmacology 125 and 136. Lecture 2 hours.

Burkhalter

The occurrence, mode of action, recognition, and treatment of poisoning by environmental chemicals and therapeutic agents. PHARMACOL

134. Pharmacology. (2) F. Prerequisite: Pharmacology 125 and concurrent enrollment in Pharmaceutical Chemistry 134.

Lecture 2 hours. Masters, Guglielmo

Systematic survey of action and uses of antiinfective and anti-neoplastic drugs. PHARMACOL

136. Pharmacology & Toxicology. (4) W. Prerequisite: Pharmacology 125 and concurrent enrollment in Pharmaceutical Chemistry 136. Lecture 3 hours. Conference 2 hours Masters

Systematic survey of action and use of drugs acting on the central nervous system. PHARMACOL

150.01, Pharmacology Research. (1.5 per week) Su, 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. PHARMACOL

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

Group studies of selected topics in pharmacology. PHARMACOL

198. Supervised Study. (1-5) § F,W, Sp. Staff

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

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. PHARMACOL

206A. Mechanisms of Drug Action. (3) § W. 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.

Bourne and Staff

Lecture/seminar dealing with fundamental aspects of interactions between chemical nd components of biological systems. Mechanisms of drug action at molecular, biochemical, and membrane levels are considered. PHARMACOL

250. Research. (1-8) § F,W, Sp. Staff

PHARMACOL

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

111. Neurology & Rehab Diag/Treat-

ment. (3) § W. Prerequisite: completion of PT 200, Anatomy 103.01, and Pathology

135.01 or by consent of program director.

Course presents the diagnostic and medical

principles which guide decision making and

Contraindications, precautions, and diagnosis

of the different neurological diseases are dis-

112. Pediatrics: Diagnosis & Treatment.

(1) § W. Prerequisite: Upper division course-

work in human development and Pathology

Course presents the diagnostic, developmen-

clinical management for normal youngsters

Contraindications, precautions, and prognosis

are discussed as they impact physical therapy

198. Supervised Study. (1-5) § Su, F,W, Sp.

This course is designed to permit physical

therapy students to do 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 cur-

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

Sp. Prerequisite: Approval of student faculty

adviser and project faculty or by consent of

project under direction of a faculty member

with the approval of the chairperson of the

200. Neuromusculoskeletal Anatomy. (6)

anatomy and human physiology or consent of

§ Su. Prerequisite: Upper division human

instructor. Lecture 3 hours. Lab 9 hours.

Dissection and functional anatomy of the

neuromusculoskeletal system from a develop-

mental and biomechanical perspective, with

vascular and lymphatic systems related in a 3-

dimensional perspective. Principles and rela-

tionships reinforced through lecture, dissec-

tion laboratories, studies of presections, and

weekly integrative clinical seminars. PHYS

201. Kinesiology & PT Assessment. (3) §

Su. Prerequisite: Completion of prerequisite

coursework in kinesiology, exercise physiol-

program director. Lecture 1 hour. Lab 6

ogy, anatomy, and physiology or by consent of

Application of surface anatomy, structural and

biomechanical principles to normal trunk

and extremity motion within the physical

therapy assessment. Principles of measure-

ment, instrumentation, administration, and

interpretation of standardized and clinical

evaluation techniques reviewed in a lecture

202. Therapeutic Exer and Modalities.

(2) § W. Prerequisite: Completion of prereg-

uisite coursework in exercise physiology and

human physiology or by consent of program

In lecture and laboratory setting, physiologi-

cal, theoretical, and administrative principles

are applied to the application of therapeutic

modalities and the design and implementa-

tion of therapeutic exercise programs to pre-

vent disability, maintain positive health, and

204. Advanced PT Practice & Theory II.

(5) § W. Prerequisite: Concurrent enrollment

in the Kaiser Orthopedic Physical Therapy

and Clinical Residency Program or by con-

Course includes prioritizing patient com-

plaints, progressing treatment at optimal rates,

discharge planning, home exercise programs,

ergonomic analysis, function assessment and

sent of program director. Lecture 3 hours. Lab

restore function. PHYSTHER

director. Lecture 1 hour. Lab 3 hours

and lab setting. PHYSTHER

Student conducts a laboratory research

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tal, behavioral, and medical principles of

and those with acute/chronic disease.

Prerequisite: Approval by instructor.

riculum coursework. PHYSTHER

program director.

department. PHYSTHER

Staff

Topp

THER

hours.

Richards

Richards, Byl

management. PHYSTHER

135.01 or by consent of program director.

clinical management by the neurologist.

cussed to guide decision making by the

physical therapist. PHYSTHER

Lecture 2 hours.

Lecture 1 hour.

Kaufman

Staff

Garcia

For graduate students engaged in writing the thesis for the master's degree. PHARMACOL

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

For graduate students engaged in writing the dissertation for the PhD degree. PHARMACOL

300A-B-C. Teaching Practicum. (1-3, 1-3, 1-3) § F,W, Sp. Prerequisite: Advancement to candidacy for the PhD degree. Staff

Opportunity is provided to participate in a formalized way in the teaching of pharmacology under the direction of the faculty. PHARMACOL

Pharmacy Administration

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. CL PHARM

112. Pharmacy Laws. (2) Sp. Lecture 2 hours.

J.R. Nielsen

A detailed examination of federal and state drug, cosmetic, and narcotic laws; their promulgation, enforcement, and effect upon the practice of pharmacy. Course involves some administrative work. CL PHARM

150. Marketing. (4) W. Lecture 4 hours. Lucaccini

An analysis of the marketing functions that facilitate the flow of pharmaceutical products from production to consumption, and of the decision-making processes of marketing institutions. Emphasis is given to the environmental factors affecting marketing decisions. **CL PHARM**

154. Community Pharmacy Management. (4) Sp. Prerequisite: Basic economics or consent of instructor. Lecture 4 hours. Lucaccini

Principles of management, specially directed toward developing familiarity with current problems peculiar to community pharmacy operation. Emphasis is given to elements in locating, organizing, operating, and adapting a pharmacy. CL PHARM

155. Accounting. (3) F. Lecture 1 hour. Discussion 2 hours.

Lucaccini

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. CL PHARM

160. Hith Prof Family & Business Law.

A survey of laws relating to landlord-tenant

dissolution, property division, support pay-

ments, probate and decedent's estates, with

particular emphasis on how pharmacists may

expect their practice to be affected by these

170. Group Studies. (1-4) F,W, Sp. Prereq-

Group studies of selected topics in pharmacy

180A-B-C. Legal Problems in Health

Care. (2-2-2) F,W, Sp. Prerequisite: Third-

year standing and consent of instructor.

library research on current legal (statuto

laws, and some practical preventive legal tech-

(2) Sp. Lecture 2 hours.

niques. CL PHARM

uisite: Consent of instructor.

administration. CL PHARM

J.R. Nielsen

Staff

I.R. Nielsen

230. Spectroscopy. (2) §W. Lecture 3 hours. Lab 3 hours. (Five weeks.) Basus

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.

Basus

Theory and application of nuclear magnetic resonance for biomolecular structure determination. PHARM CHEM

235. Mass Spectrometry in Life Sci. (2) §

F. Prerequisite: Consent of instructor. Lecture 2 hours.

Falick

Elucidation of molecular structure, characterizations of mixtures, and quantitative measurements. Presentation of basic tools, concepts, and strategies in the complementary usage of currently available techniques in present biochemical and biomedical research. PHARM CHEM

Staff

For graduate students engaged in writing the dissertation for the PhD degree. PHARM CHEM

Pharmacology

100A. Medical Pharmacology. (2) F. Prerequisite: Medical school 1st-year standing or consent of instructor. Lecture 2 hours. Conference 1 hour.

Katzung, Benet, Trevor, Bourne, White, Masters

General principles of pharmacology, pharmacodynamics, and pharmacokinetics. Pharmacology of antimicrobal drugs. PHARMACOL

100B. Medical Pharmacology. (3) W. Prerequisite: Pharmacology 100A or consent of instructor. Lecture 2 hours. Conference 2 hours.

Katzung, Bourne, Burkhalter, Boushey, Olson, Ives, Masters

Pharmacology of the autonomic nervous system, the cardiovascular-renal system, the airways, and the GI tract. Introduction to toxicology PHARMACOL

206B. Mechanisms of Drug Action. (3) § Sp. Prerequisite: Pharmacology 206A. Seminar 3 hours.

Lansman

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. PHARMACOL

208. Oxidative Drug Metabolism. (2) § W. Prerequisite: Consent of instructor. Lecture 2 hours.

Correia, Ortiz de Montellano

The biochemical, regulatory, and chemical aspects of mixed function oxygenases with particular emphasis on cytochrome P-450. PHARMACOL

220. Seminar. (0) § F,W, Sp.

Correia

Presentations by guests and staff on current research in pharmacology PHARMACOL and case law) issues affecting the delivery of pharmacy services. Discussion and paper. CL PHARM

Selected problems with directed readings and

198. Supervised Study. (1-5) F,W,Sp. Staff

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

Physical Therapy

110. Ortho & Rehab Diag/Treatment.

(2) § F. Prerequisite: Completion of PT 200, PT 201, PT 202 and concurrent enrollment in Pathology 135.01 or by consent of program director. Lecture 2 hours. Hoaglund

Course presents the diagnostic, medical, and surgical principles and techniques which guide decision making and management by the orthopedic surgeon. Contraindications, precautions, and prognosis are discussed to guide the decision making of the physical therapist. PHYSTHER

advanced treatment techniques for the neck, thoracic, lumbar spine, foot/ankle, wrist/ hand, shoulder, sacroiliac, and lower extremity joints. PHYSTHER

205. Functional Anatomy Review. (1.5) § Su. Prerequisite: PT 200 or equivalent. Lecture 1 hour. Lab 1.5 hours.

Topp

6 hours.

Staff

This course is designed for physical therapists. Using prosected (and/or dissected) cadavers, the student is expected to relate the structures to clinical kinesiology, biomechanics, and the pathological state. Students are expected to critically review research in applied anatomy. PHYSTHER

206. PT Diagnosis of Physical Dysfunction. (1-4) § F,W, Sp. Prerequisite: Consent of program director. Lab 3-12 hours. Byl, Melnick, Richards, McKenzie, Radtka, Arriaga

Using clinical case examples, patient care situations, directed observation, screening, lectures, demonstrations, and clinical measurements, the students will learn how to apply the principles of problem solving and classifying problems of physical dynfametrom PHYSTHER

Physical Therapy

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210. Pharmacology & Radiology for PTs. (2) § W. Prerequisite: Consent of program director. Lecture 2 hours. **Byl and Staff**

Survey course of pharmacology and radiology of common psychological, social, and neuromusculoskeletal disability. Pharmacological topics include principles, indications, adverse reactions. Radiological topics include principles, indications, advantages and disadvantages of appropriate radiological techniques for assessing skeletal and soft tissue lesions. PHYSTHER

218. Principles of Isokinetic Exercise. (3) §W, Sp. Prerequisite: Permission of instructor. Lecture 2 hours. Lab 3 hours.

Sadowsky

Principles of isokinetic exercise applied to the identification, assessment, and significance of normal and abnormal muscle performance. Patient preparation, exercise and testing protocols, test result interpretation, and equipment maintenance will be emphasized.Variable lecture/laboratory ratio. PHYSTHER

220. Current Topics (1) § Su, F,W, Sp. Seminar 2 hours.

Staff

Students, staff, or guest lecturers present selected topics, reflecting developing directions in physical therapy (e.g., pain control, rehabilitation engineering, mobilization, neuroplasticity, premature high-risk infants, TMJ problems, craniosacral therapy). May be repeated for credit when topics vary. PHYS THER

252. Research Seminar: Critique of

Physical Therapy Literature. (1) § W. Prerequisite: Completion of a course in statistics or by consent of program director. Seminar 3 hours.

Byl, Sadowsky

The first seminar of a research series focusing on problems of research in physical therapy, practical statistics, writing abstracts and critiques of research publications, and learning how to organize a literature review for a research topic. PHYSTHER

253. Research Seminar: Proposal Writing. (1) § F,W, Sp. Prerequisite: grade B or better in PT 252 or by consent of program director. Seminar 3 hours.

Byl

Converting the research question to a research hypothesis, and proposal writing including preparation of a proposal for a research project. PHYSTHER

254. Research Seminar: Data Analysis.

(1) § Sp. Prerequisite: Completion of PT research seminars 730, 252 and 253 or by consent of program director. Seminar 1 hour. Byl

This is the last seminar in the research series, and includes data analysis, data interpretation, problem solving, manuscript preparation, and presentation of results to class and other professionals. PHYSTHER

300. Practicum in Teaching. (1-4) § F.W. Sp, SS3. Prerequisite: Enrolled in Graduate Program in Physical Therapy and satisfactory completion of PT 200. Consent of instructor. Staff

Training in teaching in a course offered by the Graduate Program in Physical Therapy under the supervision of instructor in charge Laboratory teaching, presentation of lecture material, experience in setting up and correcting of examinations, and participation in course. PHYSTHER

410. Clinical Clerkship. (0) § W. Prerequisite: Completion of academic coursework with overall B average or by consent of program director. Clinic 1 day/week. S. Richards

Students observe and assist the physical therapy clinician in the provision of assessment, evaluation, and physical therapy treatment services in one practice setting, one day a week for 11 weeks. PHYSTHER

411. Clinical Clerkship. (0) § Sp. Prerequisite: Enrolled in Graduate Program in Physical Therapy and satisfactory completion of academic coursework with overall B average to enter the clinical clerkships. Open only to students enrolled in the Graduate Program, or by consent of program director. Clinic 1 day/ week.

The following courses are offered at San Francisco State University and are part of the required core curriculum of the joint UCSF/ SFSU Graduate Program in Physical Therapy. Please note that these courses are assigned semester units.

700. Comprehensive Physical Therapy Management. (3) Prerequisites: PT 201, 202, Path135.01.

Principles of physical therapy management in acute care, emergencies, dermatological conditions, wound care, adaptive procedures and equipment, communication disorders, basic fitness testing and promotion, and rehabilitation of medical problems resulting in physical disabilities. Classwork, one unit; laboratory, two units.

701. Musculoskeletal Pathokinesiology I. (4) Prerequisites: PT 200.201, Anatomy 103.

Normal/abnormal musculoskeletal function; therapeutic approaches to prevention, assessment, remediation of pathokinesiological conditions. Topics: overuse syndromes, traumatic conditions, fractures, arthritis patient management, therapeutic exercise, mobilization, techniques for soft tissue injuries, specialized equipment. Classwork, two units; laboratory, two units.

702. Musculoskeletal Pathokinesiology II. (3) Prerequisite: PT 701.

Advanced methods of assessment and therapeutic techniques in management of patients with musculoskeletal problems. Evaluation and application of current research. Emphasis on problem solving. Patient presentation; evaluation of new techniques. Individual and group projects. Classwork, two units; laboratory, one unit.

704. Education, Learning, and Memory in Physical Therapy. (2)

Principles of communication, attention, learning, and memory affecting physical therapist's role as an educator in individualized patient and caregiver instruction, staff development programs, community health promotion, and education. Emphasis on setting objectives, instructional strategies, documentation, measurement of progress and evaluation.

705. Administration and Organization in Physical Therapy. (2)

Specific administrative and planning skills required for physical therapy practice in various settings. Topics include: quality assurance, documentation, personnel and fiscal management, planning, contracting, health services administration, health care team, various professional and medical-legal issues affecting physical therapy.

710. Neurological Pathokinesiology I.

Pathokinesiological and neuromotor principles applied to assessment and treatment of neurological dysfunction across the life span. Includes physical rehabilitation of patients with neurological impairments from trauma, infection, congenital defects, vascular and degenerative diseases. Classwork, two units; laboratory, two units.

711. Neurological Pathokinesiology II: Assessment, Prevention, and Remedia-

tion. (3) Prerequisite: PT 710. Neuromotor and pathokinesiological principles applied to advanced techniques in management of patients with neurological disorders. Evaluation and application of research. Laboratory practice and patient demonstrations. Specialists invited to teach new techniques. Classwork, two units; laboratory, one unit.

720. Cardiopulmonary Pathokinesiology I. (2)

Principles of physical therapy in assessment and treatment of kinesiological/physiological dysfunction of cardiac and pulmonary systems. Physical rehabilitation or training for cardiac and/or pulmonary limitations arising from trauma, disease, congenital defect, or life style. Classwork, one unit; laboratory, one

721. Cardiopulmonary Pathokinesiol-

736. Ecological and Organizational Issues in Rehabilitation.

Cultural, environmental, and legislative issues affecting accessibility of physical therapy and related services. Sociocultural issues relative to quality of health as a right; influences of political and fiscal climates on trends in models of health care delivery.

737. New Dimensions in Physical Therapy. (2)

Prerequisites: PT 200 and 201. Topic to be specified in the Class Schedule.

Selected topics reflecting developing directions in physical therapy (e.g., pain control, rehabilitation engineering, analysis of pathological movement, mobilization, neuroplasticity, premature high risk infants, TMJ problems, craniosacral therapy. May be repeated for a total of four credits when topics vary. CR/NC grading.

890. Research Seminar in Physical

Therapy. (3) Prerequisite: PT 253. Research designs, problem solving, methodologies, and data analysis for specific topics in basic and clinical physical therapy research. Implementation of one facet of an ongoing project, under guidance of the principal investigator. CR/NC grading only.

899. Special Study. (1-3) Prerequisite: consent of major adviser and supervising faculty member.

Independent study or research planned, developed, and completed under the direction of a faculty member. Open only to graduate students who have demonstrated ability to do independent work. May be repeated twice for a total of six units.

Physiology

100. Organ System Physiology. (6) § W. Prerequisite: Anatomy 100 and Interdepartmental Studies 100 and concurrent enrollment in Biochemistry 100; or by consent of instructor. Lecture 4 hours. Lab 4 hours. Conference 2 hours.

Bunnett

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) § Sp. Prerequisite: Anatomy 100A-B, Bio-

chemistry 100, Physiology 100, Interdepartmental Studies 100, or consent of instructor. Lecture 1 hour. Conference 4 hours Lingappa

Within the framework of endocrine and gastrointestinal physiology, the course will strive to teach the information necessary to achieve an understanding of key physiologic principles. PHYSIOLOGY

110. Integrative & Nutritive Systems. (6) § Sp. Prerequisite: College-level biology,

physics, and chemistry, or consent of instructor. Lecture 4 hours. Lab 1 hour. Conference 1 hour A. Miller

To provide understanding of the mechanisms and processes in various organ systems. Provide necessary background for learning about human disease and its treatment. Enhance understanding of the function of organs and cells. Provide knowledge for realization that oral functions and disease involve exactly the same processes as other human functions and disease. Help prepare skills necessary to understand and evaluate clinical literature. PHYSIOLOGY

120. Mammalian Physiology. (2.5) §W.

Prerequisite: Physiology 125 required for students in School of Pharmacy; may be taken separately by graduate students with consent of instructor only. Lecture 2 hours. Conference 0.5 hour.

Reid and Staff

Study of the integrative systems of the mammalian organism, particularly the gastrointestinal and endocrine systems. PHYSIOLOGY

125. Mammalian Physiology. (6) F. Prereq-

150.01. Research in Physiology. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of instructor. Lecture and lab to be arranged. Staff

Individual research in endocrinology, respiratory physiology, neurophysiology, cardiovascular physiology, cell physiology, or other areas offered by individual staff members. PHYSIOLOGY

170.01. Medical Scholars Program

Workshops. (1) W. Prerequisite: Consent of instructor (this course is offered as part of the UCSF Medical Scholars Program, which endeavors to encourage students to pursue careers in academic medicine). Dallman.

Workshops in organ system physiology, offered concurrently to the first-year course, which will present challenging material in the form of problem sets which students will solve in groups. Material geared toward highachieving students will augment basic coursework with clinical and basic science information. 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 chairperson 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 chairperson of the department. PHYSIOLOGY

201. Advanced Integrative Physiology. (4) § Sp. Prerequisite: Physiology 100 or equivalent. Lecture 2 hours.

Reid and Staff The purpose of this course is to review in depth selected topics in regulatory and inte-

grative physiology. The emphasis will be on cardiovascular, renal, and respiratory physiology, but other systems will also be covered. PHYSIOLOGY

203. Adv Topics in Cell Physiology. (4) § Sp. Seminar 4 hours.

Korenbrot, Verkman

Study of cellular and molecular mechanisms of membrane transport. Course will be based on lectures and discussions of current literature on both active and passive transport of electrolytes and non-electrolytes across biological cell membranes. PHYSIOLOGY

204. Topics in Physiology. (2-3) § Sp. Prerequisite: A minimum of six units of introductory physiology. Seminar 2 hours. Optional term paper for additional unit. Rothman

This seminar discusses selected topics in cellular and integrative physiology. Readings are drawn from primary and secondary sources. PHYSIOLOGY

223. Physiology Research Seminar. (1) § F,W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour. Hall

Seminar presentations by guest speakers,

alternating with discussion by Physiology staff members of their current research. Each quarter, a different topic of physiological interest is the subject of guest presentations. Students may enroll for any number of quarters. PHYSIOLOGY

224. Molec Biol of Lipid Metabolism. (2) § Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Offered in alternate years. Offered 1996-97. **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

227. The Scientific Method. (2) § W. Pre-

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

For graduate students engaged in writing the thesis for the master's degree. PHYSIOL-OGY

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

Staff

For graduate students engaged in writing the dissertation for the PhD degree. PHYSIOL-OGY

300. Teaching Practicum. (0) § F,W, Sp. Prerequisite: Previous training in physiology and consent 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. (0) § W. Prerequisite: Consent of instructor. Seminar 4 hours. Coleridge, Zeiger

A seminar designed to teach postdoctoral fellows and graduate students how to best put into words, tables and figures work done in the laboratory, and how to do so clearly, simply, precisely, convincingly, and briefly, so that others may understand. PHYSIOLOGY

302. Teaching Techniques. (0) § F,W. Prerequisite: Consent of instructor. Lecture 1.5 hours. Enrollment limited. Staub

A course in teaching techniques. Students present short lectures, and videotapes of these presentations are analyzed by self- and group criticism. PHYSIOLOGY

First-Year Coordinated Instruction-This

course provides a first opportunity to inter-

guided by experienced clinicians. Useful

medical information is gathered in a com-

fortable, professional interchange, and one's

identity as a physician also begins emerging

PGY I Courses-The Department of Psy-

chiatry is currently developing new courses

for PGY I residents. Please refer to the quar-

terly Schedule of Classes for a listing of those

100A. Psychological Foundations of

Medical Practice I. (2) F. Lecture 2 hours.

Introduction to psychological principles influencing health behaviors and the physi-

cian-patient relationship. The life cycle and

100B. Psychological Foundations of

Medical Practice II. (1) W. Prerequisite:

Psychiatry 100A. Two hours per week total

will vary with lectures, panels, and seminars.

The life cycle in health and illness, personality

110. Psychiatry Core Clerkship. (1.5 per

Six-week assignment to a psychiatric service

at UC orVAF. Students, under supervision,

participation in treatment planning for inpa-

tients, outpatients, and consultation/liaison.

They attend seminars related to clinical work,

and make field visits to other types of psychi-

131A-B. Intro to Clinical Psychiatry. (2-

are responsible for patient evaluation and

week) Su, F,W, Sp. Prerequisite: Medicine 131A-B-C, Psychiatry 100A, 100B and

131A-B. Open to UCSF students only.

style, emotion and psychotherapy will be

cross-cultural factors are explored. PSY-

view medical patients in small group settings,

Psychiatry

in the process.

courses in the 400 series.

Seminar 1 hour.

CHIATRY

Cohen, Feder

Martin

covered. PSYCHIATRY

Cohen, Minninger

S. Richards

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 treatment. PHYSTHER

414. Clinical Clerkship. (0) § SS3, F,W, Sp. Prerequisite: PT 410, PT 411. Open only to students enrolled in the Graduate Program. Forty hours/week for 6-12 weeks S. Richards

Students provide patient care under the guidance and supervision of a clinical preceptor in a clinical facility affiliated with UCSEThe student is expected to progress to increased independence of physical therapy practice. PHYSTHER

418. Advanced Clinical Clerkship. (0) § Su, F, W, Sp.

S. Richards

Strawn Synt St

This advanced clinical clerkship is specifically arranged to enable the student to develop advanced clinical skills under the supervision of a clinical preceptor in one clinical setting. Setting and emphasis will vary. PHYSTHER

ogy II. (3) Prerequisites: PT 720; valid CPR certification credentials.

Principles of cardiopulmonary physical therapy applied to the identification, assessment, and significance of normal and abnormal responses to exercise. Emphasis on use of specific testing protocols, test result interpretation, and equipment maintenance. Classwork, two units; laboratory, one unit.

730. Scientific Inquiry and Research. (3) Logic of inquiry, principles of research design. and methodologies appropriate to scholarly activity in physical therapy. Includes review and critical appraisal of current literature, problem solving in conception, design, and execution of research.

735. Psychosocial Aspects of Physical Disability. (3)

Psychosocial factors which may interact with physical therapy and affect independent functioning of disabled persons. Topics include: sexuality, loss, dependency, secondary gain, motivation, anger, providing constructive support to disabled persons, and coordination of services.

uisite: Consent of instructor. Lecture 4 hours. Lab 4 hours. Conference 2 hours.

Thrasher

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 or by consent of instructor. Lecture 4 hours. Conference 2 hours.

Thrasher

Physiology of the human cardiovascular, respiratory and renal systems is stressed, with special attention to developing problem solving skills using the material. PHYSIOLOGY

126. Neuroscience for Pharmacy. (4) W. Prerequisite: Physiology 125 or consent of instructor. Lecture 3 hours. Lab 1.5 hours. Conference 1 hour.

Korenbrot and Staff

Course is designed primarily for students in the School of Pharmacy. The course will present an integrated approach to the physiological operations of the nervous system and the morphological or anatomical substrates in which these occur. PHYSIOLOGY

requisite: Graduate or professional education in at least two of the following: biochemistry, microscopic anatomy, cellular physiology or biophysics, systems physiology, microbiology, or equivalent, or by permission of instructor. Seminar 2 hours. Offered in alternate years. Contact Oral Biology Office. Rothman

Focus on the evaluation of modern research in the biological sciences, in terms of the consonance of particular experimental efforts with the historical and philosophic basis of scientific investigation. STOMATOL

228. Secretion. (2) § W. Lecture 1 hour. Offered in alternate years. Contact Oral Biology Office Rothman

Origins and experimental basis of vesicular and non-vesicular theories for the secretion of organic cell products. Goodness of fit of data to theoretical models and the role of scientific test in evaluating hypothetical constructs will be emphasized. STOMATOL

250. Research. (1-8) § F,W, Sp. Prerequisite: Consent of instructor. Lab variable.

Staff PHYSIOLOGY

2) W, Sp. Lecture 1 hour. Seminar 2-3 hours. Elkin (A), Vinogradov (B)

atric facilities. PSYCHIATRY

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. PSYCHIA-TRY

140.01. Advanced Psychiatry Clerkship. (1.5 per week) Su, F,W, Sp. Prerequisite: Psychiatry 110 and consent of instructor.

P. Martin

Participation in psychiatric assessment and treatment, with supervision of attending and resident staff. Options include consultationliaison service, or inpatient adult or child service. Other special focus experiences such as outpatient, AIDS, geriatrics, may be arranged with instructor. PSYCHIATRY

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

Department of Psychiatry. P. Martin

Clinical clerkship in off-campus hospitals, approved by the chairperson of the department and the dean. PSYCHIATRY

140.06, Behavioral Medicine: Biopsychosocial Approach to Patients-VAE (1.5 per week) Su, F,W, Sp. Prerequisite: Psychiatry 110.

Leigh, Glenn, Khan, Osborne

A 4-6 week elective rotation at the Behavioral Medicine Center and the Psychiatric Consult Service. Students given opportunity for comprehensive patient evaluation using the biopsychosocial treatment plan; participation in psychosomatic medicine research, work with interdisciplinary team. Housing provided by UCSE PSYCHIATRY

140.07. Advanced Adult Inpatient Fo-

rensic Psychiatry-AS. (1.5 per week) Su, F, W, Sp. Prerequisite: Completion of core curriculum in Psychiatry and approval of Dean's Office. Restriction: Must be by prior arrangement only. Make arrangements with Department of Psychiatry, UCSF Fresno, 2615 E. Clinton Avenue, Fresno, CA 93703. Lecture 5 hours. Seminar 2 hours. Library research 8 hours.

Leigh, Saunders

In world's largest forensic hospital, students will observe admissions, evaluations, interviews of patients with a wide spectrum of psychopathology. Will participate in treatment planning and forensic seminars. Emphasis on legal aspects of psychiatry. Room and board provided through Atascadero State Hospital. PSYCHIATRY

140.08 Consultation Clerkship-VMC.

(1.5/wk) Su, F,W, Sp. Prerequisite: Psychiatry 110 and consent of Department of Psychia-

Ahles

Supervised evaluation and treatment of patients on the Psychiatry Consultation Service, Liaison Units, Psychosomatic Clinic, and Emergency Room. Learning opportunities include teaching rounds, consultation seminar, biopsychosocial rounds, and consultation syllabus. PSYCHIATRY

140.09 Combined Family Practice/ Psychiatry Elective-VAF (1.5/wk) F.W. Sp. Prerequisite: Psychiatry 110. Leigh, Zweifler

Integrated hands-on Family Practice and Psychiatric evaluation and treatment of patients in both Family Practice and Psychiatric Services. Geared to a comprehensive evaluation and treatment of patients. PSYCHIA-TRY

140.15 Continuity Care Clinic. (1) Su, F, W. Sp. Prerequisite: Fourth-year standing. Clinic 4 hours.

Martin

Students work in clinics/residential treatment centers 4 hours/week for 3-9 months. The specialty areas include outpatient psychotherapy, geriatrics, adolescence, substance abuse treatment, trauma, psychopharmacology. Please contact Dr. Martin for arrangements. PSYCHIATRY

150.01, Psychiatric Research. (1.5 per week) Su, F, W, Sp. Prerequisite: Consent of Department of Psychiatry. Kaltreider

Participation according to students' level of experience in experimental work in areas such as neurophysiology, operant conditioning, psychophysiology, immunochemistry, and nonlexical communication. All work is under the close supervision of members of the faculty. PSYCHIATRY

170.02. Alcoholism. (1) W. Lecture 1 hour. P. Stewart

General issues in substance abuse as well as the pharmacologic, 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. PSYCHIATRY

170.17A. Issues in Psychiatry. (1-3) F.W. Sp. Prerequisite: Consent of Department of Psychiatry, Seminar 1-3 hours, Kaltreider

Explores focal psychiatric issues in systematic format. Current electives include substance abuse, women's psychological health, the development of physician identity, crosscultural issues. New topics are designed according to faculty/student interests. PSY-CHIATRY

170.19. Cultural Considerations in Health Care. (1) F, Sp. Lecture: 1 hour. Lee

Introduction to the values and beliefs of various minority cultures regarding health and illness, with an emphasis on practical clinical skills in working with a diverse patient population, understanding particular psychosocial stressors relevant to minority patients, and an understanding of the historical factors which impact on the health of minority populations. PSYCHIATRY

170.20. Topics in the Psychology of Women: Feminist Persp. (1) W. Prerequisite: Open to medical students and graduate nursing students. Seminar: 1 hour.

Gartrell, Johnson

In this seminar, there are small-group discussions based on readings from feminist perspectives on the following topics: women's moral development; dominance/subordination; eating disorders/body image; multiple discriminations against women. PSYCHIA-TRY

170.22. Life-Threatening Illness. (1) § W. Prerequisite: Seminar 4 hours Garfield

Seminar presents an effective clinical model for professionals caring for patients and families facing life-threatening illness. The format is interactive; the focus is on the sequence of events generally encountered by professional and patient from diagnosis through death. PSYCHIATRY

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

N. Kaltreider and Staff

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

214. Practice of Clinical Social Work.

(1.5) § F,W, Sp. Prerequisite: 1 year of clinical social work. Restricted to interns in clinical social work. Lecture 1.5 hours. H. Roth

This course aims at integrating developmental and clinical theories with clinical social work practice toward enhancing clinical, conceptual, and consultative knowledge and skills. PSYCHIATRY

400. Com Mental Health System. (1) Su,

W. Required for first-year residents in Psychiatry. Seminar 1 hour. Surber

Focus is on special treatment issues involved in the care of the chronically disabled patient and of patients of various ethnic and minority backgrounds. PSYCHIATRY

401. Intro to Clinical Interviewing. (1) Su, W. Prerequisite: Required for first-year residents in Psychiatry. Seminar 1 hour. Jacobs, Goldfinger

Course teaches the rudiments of interviewing psychiatric inpatients. PSYCHIATRY

402. Introduction to Psychopathology. (1) Su, W. Required for first-year residents in Psychiatry Seminar 1 hour.

Lu Course provides a grounding in phenomenology and descriptive diagnostic features of the major psychopathologies, including the following types of disorders: schizophrenic, 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. Batki

Course addresses basic issues in prescribing, including patient compliance, the placebo effect, and the dynamic significance of medications. Also includes a review of basic neurochemical processes. PSYCHIATRY

404. Intro to Child Development. (1) Su, W. Required for first-year residents in Psychiatry. Seminar 1 hour.

Hanson

An introduction to developmental framework, with emphasis on ages 0-3 years. PSY-CHIATRY

411. Forensic Psychiatry. (1.5) W.Re-

quired for second-year residents in Psychiatry. Seminar 1.5 hours.

417. Child Psychopath/Psychotherapy. (1) Su, F. Prerequisite: Required for secondyear residents in Psychiatry. Seminar 1 hour.

Binger, I. Philips Seminar covers the theory and implementation of the technique of psychotherapy with children. Emphasis is placed on play therapy. The seminar will also cover psychopathology as manifested in children, including descriptions and possible ideologies. PSYCHIATRY

421. Psychoanalytic Psychotherapy. (1) F, W, Sp. Required for third-year residents in Psychiatry, Seminar 1 hour.

Amini, Baumbacher

Course explores the application of psychoanalytic theory to psychotherapy. PSYCHIA-TRY

422. Social Psychiatry. (1.5) F,W, Sp. Prerequisite: Required for third-year residents in Psychiatry, or consent of instructor. Seminar 1.5 hours.

F.A. Johnson, Pearlin

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. PSY-CHIATRY

423. Group Therapy. (1) F.W. Required for third-year residents in Psychiatry. Seminar 1 hour.

Zeitlin

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. Palatucci

Review of clinical neurology with emphasis on neurological disorders that may have psychiatric implications. PSYCHIATRY

451. Psychiatric Grand Rounds. (1.5) F,W, Sp. Lecture 1.5 hours. Freimer

Members of the Department of Psychiatry and distinguished guests make clinically centered presentations reflecting diverse areas of the field. PSYCHIATRY

458. Research on Mental Processes. (1.5) Su, F,W, Sp. Prerequisite: Graduate standing in Psychology, or PGY 2-5 in Psychiatric Residency. Minimum commitment of one year, exception to some medical students for a one-quarter commitment. Seminar 1.5 hours Horowitz, Marmar, Weiss

Guided research using an apprenticeship model involving recorded information from psychotherapy, research interviews, and experimental procedures using cognitive science methods. Systematic readings in the literature on meaning structures and defensive processes, including issues of motivation, attention, learning, and emotion. PSYCHIA-TRY

459. Evaluation of Psychotherapies. (1.5) F,W, Sp. Prerequisite: Resident in Department of Psychiatry or consent of instructor. Seminar 1.5 hours

Marmar

Course provides framework for residents which will enable them to take a systematic and rational approach in evaluation of various psychotherapies, including a method of assessing the conceptual consistency and validity of a given approach. PSYCHIATRY

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 application to the behavioral sciences, and research potentials. Parallel reading is required. PSYCHIA-TRY

462. Psychol Aspects Medication Usage. (1) F,W. Prerequisite: Consent of instructor. Seminar 1 hour. Nevins

Course explores the psychological implications of prescribing medications. PSYCHIA-TRY

481. Child Observation. (1) Su. Prerequisite: Required for first-year child and adolescent residents, or consent of instructor. Seminar 1 hour. Child observation 2 hours. Hanson

492. Ped Consultation Orientation. (1.5)

Su. Prerequisite: Required for second-year

child psychiatry fellows, or consent of in-

Discussion of goals, attitudes, and skills re-

493. Pediatric Consultation Seminar.

(1.5) F. Prerequisite: Required for second-

year child psychiatry fellows, or consent of

Discussion of formal consultations of cases

requested by the Pediatric Inpatient Service,

Child Study Center, Family Medicine Clinic,

494. Com Consultation Literature Sem.

(1) Su. Prerequisite: Required for second-

year child psychiatry fellows, or consent of

Review of literature and discussions on com-

495. Child Continuous Case Seminar.

(1.5) F,W, Sp. Prerequisite: Required for sec-

ond-year child psychiatry fellows, or consent

of instructor for others. Seminar 1.5 hours.

Participation with senior staff member to

therapeutic work with a preschool or la-

496. Teaching & Supervision Seminar.

(1) Su, F,W, Sp. Prerequisite: Required for

second-year child psychiatry fellows, or con-

Discussion of supervision of general psychia-

try residents and medical students. PSY-

497. Adolescent Psychiatry. (1) F.W. Sp.

Prerequisite: Required for second-year child

Discussion of clinical problems of adolescents.

498. Biological Basis of Child & Adoles-

cent Psychiatry. (1) SS2. Prerequisite: Re-

quired for first-year child psychiatry fellows.

Review of biological bases and psychophar-

macological approaches to child and adoles-cent psychiatry PSYCHIATRY

Seminar. (0.75) Su. Prerequisite: Required

A seminar discussing the major aspects of

forensic child and adolescent psychiatry rel-

evant to the practice of the clinician. Topics

trauma, court evaluations, and custody issues.

Required for Child Psychiatry Fellows. PSY-

180.09. Neuropsychology of Dissocia-

tion. (3) § F. Prerequisite: Prior consent of

Topics in Neurological Disconnection and

Psychological Dissociation: an advanced

seminar considering cognitive and neuro-

psychological aspects of integration and frag-

mentation of the whole person. Topics will

vary from year to year. Examples are split-

sonality disorder. PSYCHIATRY

brain syndromes, hypnosis, and multiple per-

181.02. Cerebral Hemispheric Special-

ization. (2) § Sp. Prerequisite: Background in

neurophysiology, anatomy, cognitive psychol-

quires prior consent of instructor. Seminar 2

ogy; intended for advanced students. Re-

Group discussions of readings in seminar

format of neuropsychology of hemispheric

psychiatric, and educational implications;

specialization and integration: developmental.

evaluation of data from study of brain lesions,

electrophysiological recordings, and behav-

11

covered include childhood sexual abuse,

499. Child and Adolescent Forensic

for second-year child psychiatry fellows.

psychiatry fellows, or consent of instructor.

discuss ongoing dynamics of psycho-

tency-aged child. PSYCHIATRY

sent of instructor. Seminar 1 hour.

munity consultation. PSYCHIATRY

quired in child psychiatry consultation/liai-

structor. Seminar 1.5 hours.

son work. PSYCHIATRY

instructor. Seminar 1.5 hours.

Shatkin

Shatkin

etc. PSYCHIATRY

Reece, Sikorski

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O'Byrne

CHIATRY

Seminar 1 hour.

PSYCHIATRY

Seminar 1 hour.

Binger, Lowe

Seminar 2 hours.

CHIATRY

Galin

hours

Galin

Psychology

instructor. Seminar 3 hours.

Terr

M. Schwartz

instructor. Seminar 1 hour.

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Provides knowledge and experience in systemic child observation. Observe child behavior/development at Child Care/Study Center. Seminar presentation of observation and experiences. PSYCHIATRY

482. Growth & Development Seminar. (1) F,W, Sp. Prerequisite: Required for firstyear child psychiatry fellows, or consent of instructor. Seminar 1 hour. Siegel, Lieberman

Provides theoretical understanding of normal growth and development. Format is primarily presentations and group discussions. PSY-CHIATRY

483. Interviewing Techniques and Psychotherapy of Children. (1) Su, F, W, Sp. Prerequisite: Required for first-year child and adolescent psychiatry residents, or consent of instructor. Seminar 1 hour. Hanson

This course will consist of observation of interviews of children with instructor's comments; pertinent readings will be discussed. Presentations on specific topics will be made by faculty and trainees. PSYCHIATRY

484. Family Therapy Techniques. (1) SS1, SS2, Su, F,W, Sp. Prerequisite: Required for first-year child and adolescent psychiatry residents, or consent of instructor. Lecture 1.5 hour.

Hanson, Epstein

Family therapy seminar focuses on teaching the history, theory, and practice of family therapy. The course includes didactic material. videotape of past and current cases and teaching with families using the one-way mirror. 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. **Rubenstein and Staff**

Extensive review of pertinent readings in child and adolescent psychiatry. PSYCHIA-TRY

486, Devel Disabilities Seminar. (2) Su. Prerequisite: Required for first-year child psychiatry fellows, or consent of instructor. eminar 2 hours.

Hanson

Lectures focus on mental retardation, deafness, blindness, and cerebral palsy, with emphasis on the developmental, family, 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 psychotherapeutic work with adolescents. PSY-CHIATRY

488. Child Psychiatry Clinical Conf.

(1.5) F,W, Sp. Prerequisite: Required for firstand second-year child psychiatry fellows, or consent of instructor for others. Conference 1.5 hours.

Sikorski

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 fel-

lows; others with the consent of the instruc-

Covers current social and legal issues, policy

questions, mental health legislation, and ma-

clinical practice and services. Areas included:

divorce and child custody/support, domestic

and cross-cultural psychiatry. PSYCHIATRY

jor court decisions which have impact on

violence, day care, juvenile justice, schools.

490. Psychological & Educational

170.17B. Issues in Psychiatry. (1-3) F.W. Sp. Prerequisite: Consent of Department of Psychiatry. Seminar 1-3 hours.

Kaltreider

Explores focal psychiatric issues in systematic format. Current electives include substance abuse, women's psychological health, the development of physician identity, crosscultural issues. New topics are designed according to faculty/student interests. PSYCHIATRY

170.17C. Issues in Psychiatry. (1-3) F,W, Sp. Prerequisite: Consent of Department of Psychiatry. Seminar 1-3 hours.

Kaltreider

Explores focal psychiatric issues in systematic format. Current electives include substance abuse, women's psychological health, the development of physician identity, crosscultural issues. New topics are designed according to faculty/student interests. PSY-CHIATRY

Terr

An elective seminar discussing the major aspects of forensic psychiatry relevant to the practice of the clinician. Topics covered include competency, commitment, and criminal responsibility. PSYCHIATRY

413. Psychol Aspects of Psychr. (1) F.W. Prerequisite: Required for second-year residents in Psychiatry. Seminar 1 hour. Marmar

Examination of neurotic and character disorders from a psychodynamic perspective. PSY-CHIATRY

415. Intro to Clinical Research. (1) W. Prerequisite: Psychiatry Resident II standing. Seminar 1 hour.

Zegans, Temoshok

Course will introduce residents to clinical research as an essential body of knowledge and skills which can be integrated into present and future clinical work. Consideration of research within four broad paradigms: intrapsychic, sociocultural, behavioral psychological, and psychobiological. PSY-CHIATRY

465. Psychobiography & Creativity. (2-5) F,W, Sp. Prerequisite: Consent of instructor. Lecture 2-5 hours.

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 compared. Students will be encouraged to select individual subjects for research. PSYCHIATRY

466. Behavioral Sciences Research. (1.5) Su, F,W, Sp. Prerequisite: Consent of instructor. Lab 4.5 hours

Callaway, Halliday, and Staff

Course consists of supervised clinical and basic research in behavioral abnormalities, psychopathology, and experimental psychiatry. Specific subjects for research are chosen in conjunction with members of the staff. PSY-CHIATRY

Evaluation. (0.5) Su. Prerequisite: Required for first-year child psychiatry fellows or consent of instructor for others.

D. Morrison

tor. Seminar 1 hour.

Hanson, Simpson

Seminar is focused on the most common and prevalently used methods of assessing intelligence, educational achievement, perceptualmotor integration, and personality in children. Actual testing materials as well as supporting research are covered. Participation is required. PSYCHIATRY

491. Res Methodology in Child Psychr.

(1) F,W, Sp. Prerequisite: Required for second-year child psychiatry fellows, or consent of instructor. Seminar 1 hour.

D. Morrison

Review of basics of experimental design and methodology such as reliability and validity of measuring techniques, statistical inference, control group designs, and pre- and post-test designs. Clinical research with children provides a focus for discussion of relevant issues. PSYCHIATRY

ioral testing. PSYCHIATRY

198. Supervised Study. (1-5) § F,W, Sp. Staff

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

212. Psychological Stress & Coping. (4) § Sp. Prerequisite: Consent of instructor. Seminar 4 hours. Offered in alternate years. Offered 1996-97.

F. Cohen

Course examines stress and coping theory and research from clinical, field, and laboratory settings; measures of stress; issues in stress research; the nature of coping and coping processes. PSYCHIATRY

236A-B-C. Human Neurophysiology. (1-1-1) § F,W, Sp. Prerequisite: Consent of instructor. Seminar 1 hour.

Yingling

A journal club format seminar course which will examine the current literature in human EEG and evoked potentials, with emphasis on identification of cerebral sources. Students will make oral class presentations. PSY-CHIATRY

Psychology

237. Neurophysiological Mech of EEG. (3) § W. Prerequisite: At least one course in physiological psychology or neurobiology, or consent of instructor. Lecture 1 hour. Seminar 2 hours.

Yingling

Course will examine the neuroanatomical and neurophysiological mechanisms underlying the generation and regulation of EEG and Event-related Potentials, their measurement and clinical uses. Emphasis on the nature and limitations of inferences concerning brain activity obtainable from scalp recordings. PSYCHIATRY

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 250. Research. (1-8) § F.W. Sp.

Staff PSYCHIATRY

254A. Research Methods. (4) § W. Prerequisite: Consent of instructor. Lecture 4 hours. N. Adler, J. Tschann

An overview of research strategies and their associated strengths and weaknesses, experimental and quasi-experimental designs, correlational approaches, interview techniques, survey and questionnaire construction, uses of archival data, and observational techniques PSYCHIATRY

254B. Research Methods. (4) § Sp. Prerequisite: Consent of instructor. Lecture 4 hours. Offered in alternate years. Offered 1996-97. N. Adler

An in-depth study of the research process with emphasis on quasi-experimental design, ethics of research and grant writing. PSY-CHIATRY

265. Stress & Bodily Disease. (4) § Sp.

Prerequisite: Consent of instructor. Seminar 4 hours. Offered in alternate years. Not offered 1996-97.

F. Cohen

Examination of the psychological and physiological models and empirical research linking stress and other psychological factors to the development of bodily disease, PSY-CHIATRY

266. Reproductive Behavior. (3) § Sp.

Prerequisite: Consent of instructor. Seminar 3 hours. Offered in alternate years. Not offered 1996-97.

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 nonuse, spontaneous and induced abortion. PSYCHIATRY.

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

Staff

For graduate students engaged in writing the dissertation for the PhD degree. PSYCHIA-TRY

309. Teaching Practicums. (0) § F.W. or Sp. Prerequisite: Consent of instructor. Lecture and lab variable.

Staff Supervised classroom or totorial teaching experience. PSYCHIATRY

Radiation Oncology

140.01. Radiation Oncology Clerkship-UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 131A-B-C. Larson

Participation in examination of cancer patients under treatment in radiation oncology. Students participate in rounds, conferences, and clinics, and see demonstrations on the use of newer radiotherapeutic techniques. RA-DIOLOGY

140.06. Radiation Oncology Clerkship-MZ. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 131A-B-C. Margolis, Meyler

423. Therapeutic Treatment Planning. (10) Su, F, W, Sp. Prerequisite: Residents assigned to therapeutic radiology. One-month workshop course. V. Smith

A workshop course to provide residents in

therapeutic radiology with the elements of treatment planning and dose calculations. RADIOLOGY

424. Therapeutic Radiology Physics. (1) F,W, Sp. Prerequisite: Residents assigned to therapeutic radiology. Lecture-seminar 1 hour.

Weaver A lecture-seminar course with practical sessions to provide the resident with a basic knowledge of radiological physics with special reference to those aspects relating to therapeutic radiology. RADIOLOGY

454. Clinical Therapeutic Radiology. (1.5 per week) Su, F,W, Sp. T. Phillips

Residents, under supervision, are responsible for diagnosis, treatment, and follow-up of patients referred to radiation therapy from the wards and outpatient clinics. Radiation therapy rounds include discussion of newly referred patients; chart rounds include the discussion of patients under treatment. RADIOLOGY

Radiology

100. Intro to Clinical Radiology. (2) W. Prerequisite: Anatomy 100, 100B, 103, and Pathology 102. Concurrent enrollment in Medicine 131A-B-C. Lecture 2 hours. Lab 1

H. Goldberg

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

140.02. Off-Campus Clerkship. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 131A-B-C.

H. Goldberg Clinical clerkship in approved hospital by special arrangement and approval of the chairperson 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. H. Goldberg, Colangelo Clerkship in radiology for third- and fourthyear students. Observation of procedures, review of pathology, pathophysiology, diagnosis, and natural history of selected diseases through study of roentgenograms with case histories. Potentials and limitations of radiologic method included. RADIOLOGY.

140.04. Nuclear Medicine. (1.5 per week) Su, F.W. Sp. Prerequisite: Medicine 131A-B-

Hattnes

Observation of basic nuclear medicine procedures and participation in diagnostic tests employing radioisotopic tracers. RADIOL-OGY

140.09. Diagnostic Radiology-SFGH. (1.5 per week) Su, F, W, Sp. Prerequisite: Fourth-year standing or consent of instructor.

Minagi 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 tomo-

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 medi-

cine H. Goldberg A research project under the direction of a member of the faculty. RADIOLOGY

170.02. Clinical Application of Anatomy & Pathology. (1-3) W, Sp. Second-year standing. Lecture 1-3 hours. Colangelo, Goldberg

A lecture course limited to small groups, with active participation on selected aspects of pathological anatomy and its usefulness in understanding disease, its origins, development, and clinical manifestations. RADIOL-OGY

170.08. Nuclear Medicine Physics &

Imaging. (2) F,W. Prerequisite: BA or MD degree. Given concurrently with Radiology 170.09. Lecture 2 hours a week for 6 weeks. Independent study 10 hours. Perez-Mendez

Introduction to the physics of radioactivity, nuclear instrumentation and gamma-ray imaging techniques. RADIOLOGY

170.09. Introduction to Nuclear Medicine. (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. D. Price

Introduction to basic nuclear medicine diagnostic procedures, both in vivo and in vitro, and therapy with radiopharmaceuticals. RA-DIOLOGY

170.11. Emergency Radiology. (1) Su. Lecture 1 hour. Minagi

An elective course for fourth-year medical students. Consideration of the role of the radiologist as a consultant in the emergency room. Topics covered include head injuries. fractures, dislocations, chest, abdominal and genito-urinary trauma, and management of contrast reactions. RADIOLOGY

198. Supervised Study. (1-5) F.W. Sp.

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

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

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

402. Diagnostic Specialty Seminar. (3) F. W, Sp. Required for UC residents in diagnostic radiology.

Thoeni

Seminars require preparation and presentation of roentgen findings on patients under discussion at medical, surgical, pediatric, obstetric and gynecologic departmental conferences and seminars on congenital heart disease, disease of the gastrointestinal tract, and orthopaedics. RADIOLOGY

403. Emergency Radiology. (1) F.W. Prerequisite: Required for first-year residents in radiology. Lecture 1 hour. Minagi

Role of radiologist as consultant in the emergency room; head injuries, fractures, dislocations, blunt and penetrating chest trauma, blunt and penetrating abdominal trauma, trauma to genito-urinary system; management of contrast reactions; indications for, conduction of, interpretation of special radiologic procedures. RADIOLOGY

405. Radiological Research. (1-8) Su, F,W,

Sp. Elective. H. Goldberg

Numerous research projects are conducted in the department and facilities are available for new ones. Residents are encouraged to take advantage of these opportunities. RADIOL-OGY

408. Radiology Specialty Seminar-

451. Clinical Diagnostic Radiology. (1.5 per week) Su, F, W, Sp. Prerequisite: Radiology 450.

115.10. Operative Dentistry Laboratory.

Laboratory course provides the fundamentals

of preparing teeth to receive restorations

120A. Procedures in General Restor

Dent. (4) F. Prerequisite: RD 111C, RD

112C, RD 113C, RD115.10C. Concurrent

enrollment in RD 125A required. Lecture 6

Lecture course on the materials and proce-

dures used in the dental casting process and

how to use the casting process to fabricate

materials and procedures for tooth-colored

120B. Procedures in General Restor

Dent. (1) W. Prerequisite: RD 120A, RD

125A. Concurrent enrollment in RD 125B.

Lectures on the indications for and consider-

ations in the use of partial veneer crowns as

single restorations. Lectures will also be pre-

sented on the design, material selection, and

construction of pontics for fixed partial den-

120C. Procedures in General Restor

Dent. (1) Sp. Prerequisite: RD 120B, 125B.

Lectures on the composition, physical prop-

erties, and appropriate selection of porcelains

used in PBM restorations, the basis for shade

selection and control when using PBM por-

121B. Introduction to Removable Pros-

Lectures introduce the second-year dental

student to the theory and clinical rationale of

complete dental prosthodontics and prepare

the student for the clinical practice phase of

121C. Introduction to Removable Pros-

Continuation of introductory lectures on the

thodontics. (2) Sp. Prerequisite: RD 121B.

Concurrent enrollment in RD 125.10C

theory and clinical rationale of complete

denture prosthodontics. RESTOR DENT

123. Occlusion. (1) Sp. Prerequisite: R.D

RD 125C required. Lecture 1 hour.

120B, RD 122B. Concurrent enrollment in

Course goal is to gain knowledge of the field

current state of the art of occlusion and TMJ.

124.01 Biomaterials Science. (1) F. Lec-

Lectures on adhesion and bonding to tooth

structure, enamel and dentin bonding, glass

ionomer materials, and porcelain fused to

for intracoronal and extracoronal castings;

discussion of methods for hardening and

manipulation of properties. RESTOR

ture 1 hour. Prerequisite: R.D 124.01.

metal bonding. Introduction to metal alloys

124.02 Biomaterials Science. (1) W. Lec-

Lectures focus on failure mechanisms of re-

storative materials and biocompatibility. Poly-

merization reactions and polymer properties

will be discussed as related to impression

materials and acrylic systems cement and

materials used in removable partial and full

125A. Techniques in General Restorative

ture 1 hour, Prerequisite: RD 114.

of temporomandibular disorders, and the

celains, and esthetic alternatives to PBM

thodontics. (1) W. Lecture 10 hours.

restorations. RESTOR DENT

dentistry. RESTOR DENT

required. Lecture 2 hours.

Concurrent enrollment in RD 125C. Lecture

retainers for fixed partial dentures and as

high-quality cast restorations. Additional

lectures will provide information on the

restorations. RESTOR DENT

hours/week for 4 weeks Pre-F, 2 hours/week

emphasizing proper placement of amalgam

(0-2) W, Sp. Concurrent enrollment in RD

112B/C required. Lab 60 hours.

restorations. RESTOR DENT

Graham

for 10 weeks F.

Lecture 1 hour.

1 hour

Dellinges

Dellinges

McNeill

Marshall

DENT

Marshall

RESTOR DENT

Kahl, Mendoza

Kahl, Mendoza

tures. RESTOR DENT

Davis

Goldberg

Residents, under supervision, carry out radiological examination and interpretation of X-rays of patients referred from wards and outpatient clinics. The chief resident has certain administrative duties relative to the resident training program. RADIOLOGY

452. Clinical Diagnostic Radiology. (1.5 per week) Su, F,W, Sp. Prerequisite: Radiology 450. VA Akin

Residents, under supervision, are responsible for the diagnostic activities of the department, including diagnostic consultations and reports, history-taking, and physical examinations. In addition, the chief resident has certain administrative duties relative to the resident training program. RADIOLOGY

453. Clinical Radiology. (1.5 per week) Su, F,W, Sp. Prerequisite: Radiology 450. SFGH Minagi

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

400. Approaches to Maxofac Prosthod. (1) F,W, Sp. Lecture 1 hour. Sharma

Course is designed to acquaint residents with multidisciplinary aspects of maxillofacial prosthetics. Lectures will be given on maxillofacial prosthetic techniques, oncology, head and neck surgery, plastic surgery, oral surgery, therapeutic radiology, psychology and related oral biology. RESTOR DENT

489.01. Clinical Maxillofacial Prosthod. (1-6) F,W, Sp. Lab variable. Sharma

Residents and advanced prosthodontic students will observe and perform maxillofacial prosthodontic services for patients in the Maxillofacial Clinic. A detailed case history will be required each quarter. Attendance at related tumor board conferences and field trips to other therapy centers. RESTOR DENT

Restorative Dentistry

110A. Introduction to Dental Morphology. (1) F. Prerequisite: Concurrent enrollment in RD 115A. Lecture 1 hour Douglass

Introductory lecture topics include tooth morphology, development and form of primary and permanent dentition. RESTOR DENT

110B. Diseases Affecting Tooth Morphology. (1) W. Lecture 10 hours per quarter.

Hume

The morphological consequences of dental caries on tooth structure, risk factors in dental caries related to tooth morphology, and general concepts of restoration of carious defects in teeth. RESTOR DENT

112. Procedures in Operative Dentistry. (0-2) W, Sp. Restriction: Concurrent enrollment in RD 115.10. Lecture 20 hours. D. Graham

Lectures on the fundamentals of preparing teeth to receive restorations with emphasis on the placement of amalgam restorations. RE-STOR DENT

113B. Occlusion. (1) W. Prerequisite: RD 110A, RD 115A. Lecture 1 hour. Douglass

Introductory lecture course. Topics include the application of individual tooth and arch forms to interarch relationships. RESTOR DENT

113C. Occlusion. (1) Sp. Prerequisite: RD 113B. Lecture 1 hour.

Participation in examination of cancer patients under treatment in the Claire Zellerbach Saroni Tumor Institute at MZ. Students participate in rounds, conferences, and clinics, and see demonstrations on the use of newer radiotherapeutic techniques, RA-DIOLOGY

403. Radiation Oncology Grand Rounds. (1) Su, F,W, Sp. Lecture 1 hour. T. Phillips

Rounds include presentation of problem cases with discussions of diagnosis and treatment as well as biologic implications. Frequent guest lectures are used to cover important aspects of oncology. RADIOLOGY

404. Cancer Specialty Seminar. (3) Su, F, W, Sp. Seminar 3 hours.

T. Phillips

NABLAR SAM JAN BARREDTAL TE

Seminars include discussions of the diagnosis, treatment, and results of specialty oncology problems, including head and neck, gynecologic, otolaryngologic, pediatric, dermatologic, lymphomatous, and general malignancies. RADIOLOGY

graphic scanning, angiography, other special procedures, conventional X-ray examination, fluoroscopy, and provides an introduction to "routine" film interpretation. Students have assignments atVAF, VMC, community hospitals. RADIOLOGY

140.17. Clinical Radiology. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of instruc-

McCowin

Students may be involved in clinical diagnostic procedures such as body and neuro computed tomography, ultrasound, fluoroscope, 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. RA-DIOLOGY

140.22A. Cardiovascular Imaging Problems. (1.5 per week) F.Restriction: 4th-year medical students only. Lecture, seminar, and independent study 40 hours per week. Lull, Lim

Lectures, student observation of imaging procedures, library research, case discussion, seminars, and problem-oriented student reports and presentations are used to demonstrate the physiological basis for logical selection of imaging procedures to solve clinically common cardiovascular problems. RADI-OLOGY

SFGH. (3) Su, F,W, Sp.

Minagi

Interdepartmental seminars in which the radiological picture of problem cases either of diagnostic or therapeutic nature is presented. This course includes surgical and medical radiological rounds, consultative tumor board, clinicopathological conferences, and other department grand rounds. RADIOL-OGY

409. Radiology Specialty Seminar-VA. (3) Su, F,W, Sp. Seminar 3 hours Akin

Interdepartmental seminars in which the radiological picture of problem cases either of diagnostic or therapeutic nature is presented. These include medical-surgical, clinicopathological, chest, medical X-ray, rheumatology, neurology, and neurological surgery conferences; consultative tumor board; and surgical and orthopaedic grand rounds. RA-DIOLOGY

419. Growth Kinetics-Cells & Tumors.

(2) Sp. Prerequisite: Consent of instructor. Lecture 2 hours.

Cleaver, Patt

An analysis of cell population growth in tissues, tumors, and cultures. Emphasis is given to radioactive tracers such as thymidine and its biochemistry, and experimental methods for studying cell proliferation in vivo and in

C. McNeill

Continuation of introductory lectures on the topic of the application of individual tooth and arch forms to interarch relationships. RESTOR DENT

114 Introductory Biomaterials Science. (1) Sp. Lecture 1 hour. S. Marshall

Lectures focus on characteristics of the oral environment, basic properties of materials and teeth, and study of simple materials used to restore intracoronal defects in teeth to function. RESTOR DENT

115A-B. Dental Morphology. (0-2) F.W. Lab 60 hours

Mendoza

Laboratory course to study tooth morphology, occlusion, and the relationship of tooth form and function. RESTOR DENT

115C. Dental Morphology. (1) Sp. Concurrent enrollment in RD 113C required. Lab 3 hours

Douglass

Continuation of RD115A/B to include laboratory experience in mounting dental casts, centric relation, and adjustments of cast to appropriate anatomical relationships. RE-STOR DENT

Dentistry. (5) F. Kahl, Graham

dentures. RESTOR DENT

Laboratory instruction on preparing teeth to receive restorations, the basic principles of cavity design and preparation for amalgam, tooth-colored, and cast gold inlay and onlay restorations, preparing teeth for single unit partial and full metal crowns, design and fabrication of metal pontics, techniques in assembly and soldering of components of fixed partial dentures. RESTOR DENT

125B-C. Fixed Prosthodontics Labora-

tory. (3) W, Sp. Prerequisite: Concurrent enrollment in RD 120B and 120C (Sp). Lab 3 hours spring, 6 hours winter. Kahl, Mendoza

Laboratory instruction on preparation for and construction of maxillary posterior fixed partial denture and a provisional bridge; preparing anterior teeth for partial crowns; casting metal copings for porcelain bonding; applying porcelain to metal copings. RE-STOR DENT

125.10B. Introduction to Removable Prosthodontics. (2) W. Lab 60 hours. Dellinges

Laboratory course introduces second-year dental students to the clinical rationale and laboratory procedures of complete denture prosthodontics and prepares the student for the clinical practice of this phase of dentistry. RESTOR DENT

125.10C. Removable Prosthodontics

Lab, Complete Dentures. (2) Sp. Prerequisite: RD 121B, 125.10B. Concurrent enrollment in RD 121C required. Lab 6 hours. Dellinges

Continuation of introductory laboratory instruction on the fabrication and repair of complete dentures. RESTOR DENT

126.01. Introduction to Endodontics. (2) E Lecture 1 hour. Lab 3 hours. Goodis

Introductory lectures and laboratory in endodontics. Lectures discuss nonsurgical endodontics and the rationale of endodontic treatment. Laboratory introduces students to the armamentarium and clinical techniques of nonsurgical endodontics. RESTOR DENT

126.02.Introduction to Endodontics. (2) W. Lecture 1 hour. Lab 3 hours. Graham, Braly

Lectures discuss selection of appropriate treatment for the build-up of missing tooth structures in vital and pulpless teeth, identification and removal of caries from infected teeth, and selection of appropriate bases, liners, and interim restorations. Laboratory provides experience with the armamentarium and clinical techniques. RESTOR DENT

127.Tooth-Colored Restorations. (1.5) Sp. Lecture 10 hours. Lab 15 hours. Graham

Lectures describe esthetic alternatives in dentistry including indications and contraindications for various materials and procedures, emphasizing porcelain veneers and conservative posterior restorations. Laboratory instruction demonstrates tooth preparation for esthetic restorations and familiarizes students with various materials and clinical techniques. RESTOR DENT

130.01. Clinical Procedures in General Restor Dent. (2) SuS1,SS2. Prerequisite: RD 120C, 121C, 123, and 126C. Lecture 1 hour.

Pelzner

Lecture taken concurrently with RD 139 intended to supplement the beginning clinician's knowledge of materials, techniques, and management of the situations most frequently encountered early in the student's clinical experience. RESTOR DENT

130.02. Clin Procedures in General Restor Dent. (1) F. Prerequisite: RD 130.01,

130.02. Lecture 1 hour. J.White

Course is designed to provide clinically relevant material in conjunction with clinical practice. Major topics include the biological and mechanical basis of operative dentistry, preparation design, clinical considerations in using composite resin, recurrent caries and bonding to tooth structure, and clinical considerations in using dental amalgam. RE-STOR DENT

130.03. Clin Procedures in General Restor Dent. (1) W.Prerequisite: RD 130.02. Lecture 1 hour.

Eakle Lecture series covering the basic procedures and materials used for single-tooth restorations using direct filling gold and cast gold.

RESTOR DENT

130.04. Clin Procedures in General Restor Dent. (1) Sp. Lecture 1 hour. Prerequisite: RD 130.03.

Lacy Survey of new dental materials and clinical techniques in esthetic restorative dentistry, i.e. esthetic posterior restorations, anterior veneers, bonded bridges, and intraoral porcelain repair. Discussion includes advantages, disadvantages, indications, and contraindications of treatment options presented. RESTOR DENT

131. Biomaterials Science. (1) E. Prerequisite: RD 130.01. Lecture 1 hour. Lacy

Lectures will emphasize clinical application and behavior of dental materials presented in first and second years. Students are expected to develop a working knowledge of specific products by name, type, and application. RE-STOR DENT

131.01 Clinical Procedures in Remov-

131.03. Clin Procedures in Removable Prosthodontics. (1) W. Prerequisite: RD 131.02. Lecture 1 hour.

Yonemura Course describes the clinical procedures

Course describes the clinical procedures involved in removable partial denture fabrication. It reviews and reinforces design concepts previously given during the second and third years. RESTOR DENT

131.04. Clin Procedures in Removable Prosthodontics. (1) Sp. Prerequisite: RD 131.03. Lecture 1 hour. Curtis

Course presents various topics in the field of prosthodontics. Areas pertinent to removable partial dentures are covered along with the subjects of dental implants, maxillofacial, and geriatric prosthodontics. RESTOR DENT

132.01. Endodontics: Theory. (1) E Prerequisite: RD 130.01. Lecture 1 hour. **Goodis**

Course is designed to teach the third-year dental student proper diagnostic procedures for non-surgical endodontic cases and to instruct in proper methods of emergency treatment. Course includes pulpal and periapical pathological entities, and correlates those entities with diagnostic methods. RE-STOR DENT

132.02. Endodontics: Theory. (1) Sp. Prerequisite: RD 132.01. Lecture 1 hour. **Barkhordar**

Course is designed to expose third-year dental students to adjunctive endodontic procedures necessary to supplement their knowledge of endodontic procedures. RESTOR DENT

133.01. Clin Procedures in Fixed Prosthodontics. (1) E Prerequisite: RD 130.01, 131.01. Lecture 1 hour. Giblin

Lecture series designed to assist the student in the clinical management of patients undergoing fixed partial denture construction. The lectures will amplify, extend, and update the theoretical and laboratory experience and provide clinical relevance to the material covered in the previous two years. RESTOR DENT

133.02. Clin Procedures in Fixed Prosthodontics. (1) W. Prerequisite: RD 133.01. Lecture 1 hour. Giblin

Lecture series designed to assist the student in the clinical management of patients undergoing fixed prosthodontic treatment. Topics will include technical and biologic considerations for completing the clinical and laboratory steps of shade selection, impressions, fabricating provisional restorations, and cast articulation. RESTOR DENT

133.03. Clin Procedures in Fixed Prosthodontics. (1) Sp. Prerequisite: RD 133.02. Lecture 1 hour. Giblin

Continuation of lecture series to assist the

student in the clinical management of newer and more complex fixed prosthodontic techniques. The traditional will be compared to the contemporary and the rationale for specific treatments in specific situations will be discussed. RESTOR DENT

135. Removable Partial Dentures Laboratory. (2) Su. Lab 60 hours per quarter. Dellinges

Laboratory course introduces third-year dental students to the clinical rationale and laboratory procedures of removable partial denture prosthodontics and prepares the student for the clinical practice of this phase of dentistry. RESTOR DENT

137. Endodontics Clinic. (0-4) Su, F,W, Sp. Prerequisite: RID 126.01 and 126.02. Clinic 120 hours per quarter. Goodis

Clinical instruction and practice in the discipline of endodontics. Students will provide endodontic diagnosis, emergency care, and treatment of teeth with single and multiple root canal systems. RESTOR DENT

138. Prosthodontics Clinic. (0-7) Su, F,W, Sp. Prerequisite: R.D 120C, 125C, 126C. Concurrent enrollment in R.D 130 lecture series required. Clinic 210 hours per quarter. Finzen

inical instruction and practice in the disc

172A-B-C-D-E-F-G-H. Prosthodontic Procedures. (0-2) A, E: Su. B, F: E C, G: W.
D, H: Sp. Prerequisite: Enrollment in Postgraduate Prosthodontics Program. Lecture 1 hour. Seminar 1 hour. Two-year course. Finzen

Staff and program consultants will present lectures on various aspects of fixed and removable prosthodontics and related subjects on a graduate level. RESTOR DENT

174. Nutrition. (1) SS1. Prerequisite: DDS, DMD or equivalent degree. Enrollment in a postdoctoral specialty program. Seminar 1 hour.

M.Wilkins

Course will emphasize the dietary requirements for the geriatric prosthodontic patient. A dietary analysis of the student and a prosthetic patient currently under treatment will be required. RESTOR DENT

175B-C. Biomaterials Science. (2-2) W,

Sp. Prerequisite: DDS degree. Open to dental residents, postdoctoral and postgraduate students only. Seminar 2 hours. Jendresen Course covers biomaterials science as applied to clinical restorative dentistry with emphasis

to clinical restorative dentistry with emphasis on restorative material selection and use, based on acceptable physical and biological properties. Current research and new restorative materials will be discussed. RESTOR DENT

176. Craniofacial Pain–TMJ Seminar. (0-8) Su, F,W, Sp. Prerequisite: Enrolled postdoctoral specialty students. Fourth–year dental students may take this course as an elective with permission of the instructor. Seminar 2 hours.

McNeill

Allows residents to finish their training with a basic ability to recognize, diagnose, and treat craniofacial pain and TMJ dysfunction in an interdisciplinary environment. The treatment team will include medical and dental specialties. RESTOR DENT

179.03. Temporomandibular Joint

Clinic. (0-4) Su, F,W, Sp. Prerequisite: DDS degree. With consent of instructor, fourthyear students may take this course as an elective. Clinic 3 hours per week. McNeill

Participation in the Temporomandibular Joint Clinic applying knowledge of history-taking and differential diagnosis and utilizing such diagnostic techniques. RESTOR DENT

180. New Applic in Restor Dent: Materials & Techniques. (1) F.W. Sp. Prerequisite: Fourth-year standing. Lecture 1 hour. Lacy

Survey of new materials and clinical techniques used in contemporary dental practice with particular emphasis on cosmetic dentistry. Topics may include, but are not limited to, dentin-bonding systems, etched porcelain restorations, methods of intraoral repair of fixed restorations, esthetic posterior restorations, alternative designs for fixed bridgework, and newly introduced products. RE-STOR DENT

180.05. Prosthodontic Procedures. (1) W, Sp. Lecture 1 hour.

Brigante

An elective course offering instruction in procedures and materials other than those normally used in the clinic. RESTOR DENT

181. Scientific Writing in Dentistry. (2) W. Prerequisite: Registered dental student in good standing. Limited to 20 students. Conference 2 hours. White, Goodis

Students will produce student research journal containing literature reviews and overviews of research done by dental and dental hygiene students. Topics include writing review articles, word processing techniques, communication skills, and the steps involved in the production of a journal. RESTOR DENT

181.02. Advanced Endodontics Concepts. (1) W. Lecture 1 hour. Barkhordar

Diagnosis, case selection, and management of pain and infection in endodontically-involved teeth; advanced techniques for treating difficult root canal system anatomy; re**183. Lasers in Dentistry.** (1) SS1, SS2. Prerequisite: Third- or fourth-year standing and satisfactory progress in all required Restorative Dentistry courses. Lecture 1 hour or lab 3 hours.

J. White, Goodis

Course will provide an understanding of laser physics, tissue interaction, safety considerations, clinical research methodology, and applications of the Nd:YAG laser for intraoral hard and soft tissue. Laboratory exercises provide hands-on experience. RESTOR DENT

183.05. Advanced Complete Prosthodontics. (1) E Prerequisite: Fourth-year standing. Seminar 1 hour.

Finzen

Seminar to discuss concepts of complete denture fabrication and maintenance reviewing the rationale for procedures normally used in the clinic, and the selection of the appropriate alternate procedures where indicated. RESTOR DENT

188. Orofacial Pain. (1) F.W. Prerequisite: Third and fourth-year standing. Seminar 10 hours per quarter. **Plesh**

Discussion of various clinical problems associated with the differential diagnosis of orofacial pain. The course will also review new scientific information on trigeminal pain. RESTOR DENT

188.02. Advanced Clinical Endodontics. (0-4) Sp. Prerequisite: Fourth-year standing. Clinic variable.

Barkhordar

Advanced instruction in the field of clinical endodontics. RESTOR DENT

199.01. Biomaterials Laboratory

Project. (1-5) F.W.Sp. Prerequisite: Consent of instructor and approval of the chairperson of the department. Lab 3-15 hours. **G.W. Marshall, S. Marshall, Lacy**

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

199.02. Endodontics Laboratory

Project. (1-5) F,W,Sp. Prerequisite: Consent of instructor and approval of the chairperson of the department. Lab 3-15 hours. **Goodis, Barkhordar, Srinivasan**

of a member of the faculty with the approval of the chairperson of the department. RE-STOR DENT

199.03. Fixed Pros Laboratory Project. (1-5) F.W, Sp. Prerequisite: Consent of instructor and approval of the chairperson of the department. Lab 3-15 hours. **Tueller, Davis**

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

199.04. Oper Dent Laboratory Project. (1-5) FW, Sp. Prerequisite: Consent of instructor and approval of the chairperson of the department. Lab 3-15 hours. White, Lacy

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

199.05. Remov Pros Laboratory Project. (1-5) F,W, Sp. Prerequisite: Consent of instructor and approval of the chairperson of the department. Lab 3-15 hours. **Finzen, Hutton**

A laboratory research project under direction

of a member of the faculty with the approval of the chairperson of the department. RE-STOR DENT

210. Advanced Concepts in Bio-

materials. (1) § Sp. Prerequisite: DDS, DMD, or equivalent degree. Must be enrolled in a postdoctoral specialty program. Lecture 1 hour.

Marshall

This graduate core course in biomaterials science introduces the student to the broad scope of the biomaterials field. A basic knowledge of dental materials is assumed and biomaterials principles are emphasized during discussion of current methods and prob412. Advanced Removable Prosthodontics. (0-2) Su, F,W, Sp. Green

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The series will cover the rationale and methodology in using removable prosthetics in the care of patients with complex oral problems. RESTOR DENT

416. Emergency Dental Care. (0-2) Su, F, W, Sp. Must be first-year student in the AEGD program.

Nakahara, Kirkland

A seminar series will provide information on the diagnosis and management of dental and medical emergencies. The trainee will provide consultations and care for patients presenting at the Emergency Room in the Dental Clinics Building. RESTOR DENT

418. Prosthodontics Clinic. (0-40) Su, F,W,

Sp. Prerequisite: Must be 1st-year student in

the postgraduate prosthodontics program.

Advanced prosthodontic clinical treatment

utilizing a variety of treatment philosophies,

419. Advanced Comprehensive Dental

Care. (0-41) Su, F,W, Sp. Must be enrolled in

Residents will provide advanced comprehen-

Generalist. (2.5) Su, F. Must be second-year

student in the AEGD program. Seminar 1.5

This seminar and clinical course will focus on

the diagnosis and management of advanced

427. Advanced Restorative Dentistry for

the Generalist. (0-5) F,W, Sp. Must be sec-

ond-year student in the AEGD program.

This seminar and clinical demonstration

course will provide instruction and supervi-

sion in the most recent advances in the man-

agement of restorative dental problems. RE-

428. Prosthodontics Clinic. (0-40) Su, F,W,

Sp. Prerequisite: Must be 2nd-year student in

the postgraduate prosthodontics program.

Advanced prosthodontic clinical treatment

utilizing a variety of treatment philosophies,

articulating instruments, and techniques.

429. Complex Comprehensive Dental

Care. (0-16.5) Su, F,W, Sp. Must be second-

Provision of comprehensive dental care for

patients with complex medical and dental

438. Prosthodontics Clinic. (0-40) Su, F.W.

Sp. Prerequisite: Must be 3rd-year student in

the postgraduate prosthodontics program.

Advanced prosthodontic clinical treatment

articulating instruments, and techniques.

utilizing a variety of treatment philosophies,

486.TMD & Facial Pain. (0-11.5) Su, F,W,

Sp. Must be first-year student in the AEGD

The seminar will focus on the rationale and

techniques used in the diagnosis and treat-

ment of patients with TMD or facial pain.

This will include history-taking, imaging

techniques, and behavioral modification.

489. Advanced TMD for the Generalist.

(0-12) Su, F,W, Sp. Must be second-year stu-

This experience will allow the second-year

AEGD trainee to provide direct services to

patients with temporomandibular dysfunc-

program or by permission of instructor.

year student in the AEGD program. Clinic 10

Seminar 1 hour. Clinic 2 hours.

endodontic problems. RESTOR DENT

the AEGD program. Clinic 24 hours/week

articulating instruments, and techniques.

Clinic rotation 300-1200 hours.

Kirkland, Nakahara, Chin

hours. Clinic 4 hours.

sive dental care. RESTOR DENT

426. Advanced Endodontics for the

Weir

RESTOR DENT

for 50 weeks

Casanova

Lacy

Weir

hours.

Weir

STOR DENT

Clinic 300-1200 hours.

RESTOR DENT

Nakahara, Kirkland

needs. RESTOR DENT

Clinic 300-1200 hours.

RESTOR DENT

McNeill, Becker

RESTOR DENT

McNeill

dent in the AEGD program.

tion (TMD). RESTOR DENT

RD 121C and 125.10C. Lecture 20 hours per quarter.

Finzen

This course introduces clinical procedures of complete denture diagnosis, treatment planning, and fabrication. It draws background information from concepts presented in the second-year preclinical prosthodontics courses, but the emphasis is on the clinical management of edentulous patients. RE-STOR DENT

131.02. Clin Procedures in Removable Prosthodontics. (1) E Prerequisite: RD 131.01. Lecture 1 hour.

Finzen

Course continues topics pertinent to complete denture fabrication that were started in RD 131.01. It also begins exposure to the clinical procedures for the diagnosis, treatment planning, and design of removable partial dentures. RESTOR DENT pline of prosthodontics. RESTOR DENT

170A-B-C-D-E-F-G-H. Prosthodontics Literature Review. (0-4) A, E: Su. B, F: E C, G: W. D, H: Sp. Prerequisite: Enrollment in Postgraduate Prosthodontics Program. Seminar 1-4 hours. Two-year course. Weir

Current and past prosthodontic literature will be studied and discussed. Students will learn to distinguish between appropriate, controversial, and inappropriate prosthodontics literature. RESTOR DENT

171A-B-C-D-E-F-G-H. Prosthodontic Treatment Planning. (0-2) **A, E:** Su. **B, F:** F. **C, G:** W. **D, H:** Sp. Prerequisite: Enrollment in Postgraduate Prosthodontics Program. Lecture 1 hour. Seminar 1 hour. Two-year course. **Weir**

A treatment plan will be discussed and developed for each patient after all diagnostic aids have been gathered. Students will be responsible for establishing an initial treatment plan prior to the seminar and for justifying it before the group. RESTOR DENT finements in obturation of the root canal system. RESTOR DENT

182.03. Senior Restorative Elective. (1) F. Prerequisite: Fourth-year standing. Lecture 1 hour.

Meli

Advanced clinical restorative elective. Lectures describe the restorative general practice. Topics include office layout, laboratory relations, treatment limitations, financial arrangements, scheduling, and treatment failures. RESTOR DENT

182.05. Advanced Partial Denture Design. (1) Sp. Prerequisite: Completion of three removable partial dentures. Consent of instructor. Enrollment limited to 5 students. Seminar 1 hour.

Finzen and Staff

Seminar to discuss current concepts of removable partial denture design. The emphasis will be on designing RPDs for routine situations, but more complex designs will also be presented. Students will be assigned casts to design and articles to review. RESTOR DENT STOR DENT

401. Concepts of Occlusion. (2.5) F. Must be enrolled in postdoctoral prosthodontics program. Lecture 2 hours. Glinic 2 hours. **Hong**

A review of various concepts of occlusion. Clinical diagnostic procedures and treatment modalities will be reviewed and demonstrated. RESTOR DENT

410. Advanced Fixed Prosthodontics. (1) E. Lecture 1 hour. Kinsel

The lectures will present the rationale and methodology in the use of fixed appliances to restore the dentition of patients with missing teeth or malocclusion. RESTOR DENT

411. Advanced Endodontics Seminar. (1)

F. Lecture 1 hour.

Sheldon, Casanova

The lecture series will focus on the diagnosis and management of complex endodontic problems. RESTOR DENT

Sociology

201.Violence as a Health Problem in the United States. (2-4) §W,Sp. Prerequisites: None. Lecture 2 hours. Lab 0-6 hours. H. Pinderhughes

Course explores scope and etiology of violence in the United States. Discussion includes the links between different types of violence, examination of competing theoretical approaches to explain the courses of violence and different policy approaches to resolve and prevent violence. SOC BEH SC

203. Social Psychology of Chronic Illness. (2-3) § Sp. Prerequisites: Consent of instructor. Seminar 2 hours. Field work 0-3 hours.

G. Becker

Course provides discussion of problems faced by chronically ill persons and their families including crisis management, handling symptoms, managing regimens, social isolation, phases of discuss, temporal difficulties, normalications, during a soft a policy successful framework devices are set of a policy successful and framework devices are set of a policy successful and framework devices are set of a policy successful and framework devices are set of a policy successful and framework devices are set of a policy successful and framework devices are set of a policy successful and the policy framework devices are set of a policy successful and the policy of a policy framework devices are set of a policy of a policy of a policy of a policy framework devices are set of a policy of a policy of a policy of a policy framework devices are set of a policy framework devices are set of a policy framework devices are set of a policy of sei

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Sociology

205. Health Professions, Occupations, and Work. (3) § W. Lecture 2 hours. Lab 3 hours.

C. Harrington

Course examines the nature of occupations and professions; their constellation in hospitals and clinics, the medical division of labor, specialties and specialization, professional and occupational ideologies, the sociology of work relationships, careers. SOC BEH SC

207. Sociology of Health & Medicine. (3) § Sp. Seminar 2 hours. Lab 3 hours. C. Estes

Course introduces the student to classical perspectives in medical sociology and development of a critical perspective in the field to serve as a foundation for independent and advanced study in medical sociology. SOC BEH SC

208. Social Psychol of Hlth & Illness. (3) § F. Prerequisites: Required for doctoral students in sociology. Restriction: Doctorallevel students in nursing or sociology. Lecture 2 hours. Lab 3 hours. Staff

Course examines the relationship of social class, ethnic identification, group membership, family structure, occupation, and life style to health and illness, and therapeutic interaction of lay persons and health professionals. SOC BEH SC

209. Sociology of Power. (2-4) § F,W, Sp. Prerequisites: A graduate-level sociological 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 and reflecting a sociopolitical milieu. The student will analyze literature and debates on power structure research and theory. SOC BEH SC

212A. Sociological Theory: Classical. (5) § F. Prerequisites: Doctoral students only. Lecture 2 hours. Lab 9 hours.

B. Powers

Course examines and evaluates classical and recent contributions to sociological theory. The main objective is the generation of a critical capacity with respect to received theory in both its formal and substantive varieties. SOC BEH SC

212B. Sociological Theory: Contemporary. (5) § W. Prerequisites: S212A and must be a doctoral student. Lecture 2 hours. Research 9 hours.

C. Estes

Course examines and evaluates contemporary contributions to sociological theory. The main objective is the generation of a critical capacity with respect to received theory in both its formal and substantive varieties. SOC BEH SC

212C. Sociological Theory: Symbolic Interactionism. (5) § Sp. Prerequisites: S212AB or permission of instructor. Doctoral students only. Lecture 2 hours. Research 9 hours

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. SOC BEH

214A. Field Research. (5) § F, Sp. Prerequisites: Doctoral level. Lecture 2 hours. Field work 9 hours

V. Olesen, J. Kayser-Jones

Course offers sociological perspectives on the dimensions and properties of research in natural, social settings. Focus is upon developing skills in negotiating entree, watching, listening, and recording of data. Emphasis is upon developing conceptual schemata in preparation for analysis. SOC BEH SC

214B. Qualitative Analysis. (5) § W. Prerequisites: Doctoral level; Sociology 214A. Lecture 2 hours. Field work 9 hours.

216. Comparative Organizations: Intl Perspec. (3) § Sp. Prerequisites: S225. Seminar 2 hours. Independent study 3 hours. R. Newcomer Course is a comparative review of contribu-

tions to the sociology of formal organizations of health care. A variety of organizational forms will be considered with special emphasis on international health care comparisons. SOC BEH SC

217. Future of the Family Seminar. (3) § F,W, Sp. Lecture 2 hours. Lab 3 hours. **R.** Staples

Course explores changing dating, sexual, sexrole, marital, and familial patterns in the United States. Discussion of futuristic models of family life as affected by sociocultural forces. Special emphasis given to changing sex-role behavior as affecting male-female relationships. SOC BEH SC

218. Adv Topics in the Socio-Analysis of Aging. (2-4) § W. Prerequisites: 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 fo-

cused upon a specific area. Laboratory assignments are for research activities on special topics in the area of aging. SOC BEH SC

219. Social Policy & Aging. (2-4) § W, Sp. Prerequisites: 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 sectors including health, income, and social services; and consider prospects for social change and political movements. SOC BEH SC

220. Seminar in Sociology. (1-3) § F,W, Sp. Prerequisites: None. Restrictions: Doctoral students only. Lecture 1 hour. Lab 0-6 hours. P. Fox, P. Webber

Doctoral student seminar to discuss methods and problems in current research. Course may be repeated for credit. SOC BEH SC

221. Qualifying Examination. (1-8) § F.W. Sp. Prerequisites: Completion of preliminary examinations. Open to Sociology students

only C. Harrington, C. Estes, A. Clarke, R.

Newcomer, V. Olesen Course will offer preparation for the specialty area qualifying examination. SOC BEH SC

222. Health Care Economics and Policy. (3) § F, Sp. Prerequisites: None. Lecture 3

hours. C. Estes, C. Harrington

Course provides a critical analysis of economic, sociological, and political factors that affect health care. Examines U.S. health policies that impact on access, quality, costs, delivery systems, professional practices, and reform. SOC BEH SC

223. Perspectives on Public Policy. (3) § W, Sp. Prerequisites: Consent of instructor. Lecture 2 hours. Lab 3 hours.

R. Newcomer Course offers systematic overview of health

policy in American government-its scope, dynamics, and conceptual and practical dilemmas. Students will become acquainted with major issues involved in formulating, financing, implementing, and assessing patterns of decision (i.e., policy) established by government. SOC BEH SC

225. Health Care Institutions. (2-5) § F,W, Sp. Lab 0-9 hours. Seminar 2 hours.

R. Newcomer, P. Fox Course examines formal organizational theory, structure, and processes for health care organizations. The focus is on how organizations function within the socioeconomic and political environment in the United States SOC BEH SC

230. Sociocultural Issues in AIDS. (3) § W, Sp. Lecture 2 hours. Lab 3 hours. Harrington

236. Race/Class Factors in Hith Care Delivery. (3) § W. Prerequisites: Consent of instructor. Graduate standing. Lecture 2 hours. Lab 3 hours.

H. Pinderhughes

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. SOC BEH SC

238. Feminist Theory. (2-4) § F,W, Sp. Prerequisites: Some background in social theory. Doctoral students only. Lecture 2 hours. Field work 0-6 hours. Staff

Course provides in-depth overview and examination of 20th-century feminist theories from sociology, anthropology, and interdisciplinary perspectives. Emphasis is on current contributions and debates, with attention to relations between feminist theories and issues for research in women's health and healing. SOC BEH SC

239. Evaluation Research Methods. (3) § F,W, Sp. Prerequisites: Sociology 214A and

214B. Non-doctoral students may enroll upon approval of instructor. Lecture 2 hours. Lab 3 hours. R. Newcomer

Course analyzes field work as evaluation method, as applied to health care settings and programs, contrasting this approach with quantitative methods predicated on analysis of outcomes. Conduct of such evaluative research, and relationship with audiences, such as policymakers, analyzed. SOC BEH SC

240. Older Women's Issues. (2-4) § F,W. Lab 0-6 hours. Seminar 2 hours C. Estes

Course analyzes postmenopausal women's socioeconomic status and changing social roles. Topics include demographic issues, economic trends, individual social and health status, policy implications for individuals and society. SOC BEH SC

241. Women, Work & Health. (2-4) § F. Seminar 2 hours. Optional project for additional units

J. Weinberg

How sociocultural systems place women in work roles, the implications for their health, their part in illness prevention and care of the sick. Analyzes "hidden careers," work and health in developing societies, relationship between work and morbidity-mortality patterns. SOC BEH SC

242. Women's Health: Res. (2-4) § Sp. Prerequisites: 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.

Staff An advanced survey of quantitative research methods in analysis of women's health issues. Will focus on data sources, design types, evaluation methods, data analysis, and proposal and report writing. Exploration of current research controversies. SOC BEH SC

243. Qualitative Research in Women's

Health. (2-4) § W. Prerequisites: 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. Olesen

An advanced survey of qualitative research methods in analysis of women's participation in health and healing systems. Will review epistemological assumptions, analytic strategies, design and modes to assure credibility, plausibility. Will focus on data sources and analysis of data. SOC BEH SC

244. Advanced Methods for Survey Analysis. (3) § Sp. Prerequisites: Introductory statistics through multivariate analysis. Lecture 2 hours. Lab 3 hours. M. LaPlante

Course teaches analytical methods to analyze large, complex, multi-stage stratified cluster sample surveys, i.e., National Health Interview Survey, Current Populations Survey, health/demographic surveys. Covers sampling theory for multi-stage stratified cluster samples and applied instruction in using appropriate software (SUDAAN). SOC BEH

248. Group Independent Study. (1-4) § F. W, Sp. Prerequisites: Consent of instructor. Seminar 1-4 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 of methodologies. SOC BEH SC

249. Special Studies. (1-8) § F,W, Sp. Prerequisites: Consent of instructor. Staff

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

251. Women's Health: Sociocultural. (2-4) § Sp. Prerequisites: Consent of instructor. Lab 0-6 hours. Seminar 2 hours. Staff

Exploration of relationship between culture and health for women in non-Western societies. Effects of modernization and migration on utilization of traditional and cosmopolitan health care and on women's roles as providers will be discussed, and contemporary controversies will be analyzed. SOC BEH SC

252. Women's Health: Socio-Historical. (2-4) § W. Prerequisites: Consent of instructor. Lab 0-6 hours. Seminar 2 hours. 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 19thand 20th-century developments in industrialized societies. SOC BEH SC

253. Sociology of Reproduction. (2-4) §

Sp. Lab 0-6 hours. Seminar 2 hours. Offered in alternate years. Offered 1996-97. A. Clarke

Course focuses on recent theoretical and substantive developments concerning female sexuality, birth control, population control, abortion, reproductive technologies, and pregnancy/childbirth. Examines race and class relations and concerns of the state, science, and medicine. SOC BEH SC

254. Women's Health: Policy Issues. (2-4) §W. Prerequisites: Consent of instructor. Lab 0-6 hours. Seminar 2 hours. Staff

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 on women's health, participation in care and healing systems and access to training. SOC BEH SC

256. Introduction to Survey Research.

(3) § Sp. Prerequisites: Biostatistics 183 and 185AB or equivalent. Restriction: Doctoral level; non-doctoral students may enroll upon consent of instructor. Lecture 2 hours. Lab 3 hours.

R. Newcomer

Course introduces sample theory, sample development, and methods of survey research, Course provides rudimentary skills for those conducting their own research and large field surveys. SOC BEH SC

257. Minority Health and Aging. (2-3) § F, Sp (offered once yearly). Lecture 2 hours. Field work 0-3 hours.

G. Becker

Course explores the diversity of racial and ethnic variation and examines the health and aging experience of minority elderly within the context of families, communities, and the nation. SOC BEH SC

260. Policy and Politics of Health. (2-5) § W, Sp. Lecture 2 hours. Field work 0-9 hours. C. Harrington

Course examines health care policy and politics in terms of historical and contemporary issues related to access, quality, and cost. Organizational, financing, and labor market

issues are included, along with strategies for

270B. Quantitative Methods II. (3) §W. Prerequisites: S270A (Quantitative Methods I). Restriction: Doctoral students in Sociology or consent of instructor. Lecture 2 hours.

Lab 3 hours. R. Newcomer, E. Froelicher

Course examines quantitative research methods including issues of sampling, reliability and validity, data collection, analysis, and inference. The course examines experimental, quasi-experimental, ex-post-facto, and correlational research, as well as survey and evaluation methods. SOC BEH SC

270C. Advanced Quantitative Methods.

(3) § Sp. Prerequisites: S270A and S270B or equivalent course in quantitative methods. Restriction: Doctoral students. Seminar 2 hours. Lab 3 hours.

Staff

R. Newcomer

hour. Lab 0-6 hours

C. Harrington

M. LaPlante

ered. SOC BEH SC

R. Staples

BEH SC

E. Lurie

SC

Advanced seminar in research methods. Students will be able to appreciate the complexity of issues and challenges of advanced quantitative research in measurement models, complex survey analysis, longitudinal design and analysis, and meta-analysis. SOC BEH SC

271. Professional Issues Seminar. (1) § F. W, Sp. Restriction: Doctoral students in Sociology or consent of instructor. Seminar 1 hour.

Seminar addresses professional and career

issues for sociologists, including teaching,

tation of papers at professional meetings.

research, writing for publication, and presen-

Focuses on career and educational planning,

272. Dissertation Research Seminar. (1-

3) § F,W, Sp. Restriction: Doctoral students in

Sociology or consent of instructor. Seminar 1

Course addresses logic of research design and

search question, delineation of work plan, and

orientation to relevant theoretical literature

273. Demography of Health and Aging.

(3) § W, Sp. Prerequisites: Consent of instruc-

Course provides an overview of demographic

studies of morbidity, disability, and mortality.

over time in health and mortality profiles of

populations and the relationship of morbidity,

274. Soc of Human Sexual Behavior. (3)

Doctoral program in Sociology or consent of

Course examines contemporary sexual prob-

lems from a sociological perspective focusing

structure. Topics will include sexually trans-

violence, sexual harassment, and incest. SOC

275. Mental Illness and the Elderly. (2-3)

§W, Sp. Prerequisites: Consent of instructors.

Course considers current research, policy, and

funding issues with regard to the mentally ill

aged, 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

276. Multidisciplinary Geriatric Assess-

Course provides clinical experience in mul-

Course involves application of social, psycho-

logical, economic, and other factors in assess-

tidisciplinary assessment for sociologists,

nurses, physicians, and other clinicians.

ment. (1-3) § F,W, Sp. Lab 3-9 hours.

G. Becker, S. Kaufman

ment. SOC BEH SC

Lab 3 hours. Seminar 2 hours.

mitted diseases, teenage pregnancy, sexual

§ F.W. Sp. Prerequisites: None. Restriction:

instructor, Seminar 2 hours. Lab 3 hours.

on issues and their relationship to social

Sociodemographic variations and changes

disability, and mortality trends will be cov-

tor. Lecture 2 hours. Lab 3 hours.

or empirical data available. SOC BEH SC

execution for students. Clarification of re-

résumé development, internships, mentor-

ships, and job interviews. SOC BEH SC

V. Olesen, I. Kayser-Iones

Course examines modes of analysis applicable to qualitative data; emphasis on dimensions and properties exhibited in student-presented data. SOC BEH SC

214C. Qualitative Analysis. (3) § F,W, Sp. Prerequisites: Doctoral level; Sociology 214A and 214B. Lecture 2 hours. Lab 3 hours. A. Strauss

Course provides qualitative analysis and the development of substantive and formal sociological theory. Emphasis is on student-presented data and their conceptualization. SOC BEH SC

215. Organizational Research. (2-4) § F, W, Sp. Prerequisites: Sociology 216 encouraged but not required and consent of instructor. Lab 3-9 hours. Conference 1 hour. E. Lurie

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 organizations outside academic settings. SOC BEH SC

Course examines the history and social psychology of AIDS in relation to health, illness, disease, and death. Includes demo graphic trends, the cost burden, and special problems of minorities, women, and caregivers, along with policy issues. SOC BEH SC

233. Sociology of Aging. (3) § W, Sp. Lecture 2 hours. Lab 3 hours. P. Fox, S. Kaufman

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. SOC BEH SC

234. Introduction to Geriatrics and Aging. (2-3) § F,W, Sp. Lab 3 hours. Seminar 1-2 hours.

G. Becker, S. Kaufman

Course examines health status of the aged in the United States in light of relevant biological, behavioral, sociocultural, and political factors. Topics relevant to health care professionals working with the elderly will be discussed. SOC BEH SC

245. Gender and Science. (3) § Sp. Seminar 3 hours.

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 constructions of gender and women's careers in science. SOC BEH

247. Policy Issues & Political Processes.

(3) § Sp. Prerequisites: S219, or S260, or equivalent and/or consent of instructor. Lecture 2 hours. Field work 3 hours.

C. Harrington, C. Estes

Course analyzes issues and trends in legislation and politics of health and examines health professionals' roles in developing strategies to influence legislative and political processes that affect planning and delivery of care. SOC BEH SC

social change. SOC BEH SC

262. Health Care Economics. (3) § F. Lecture 2 hours. Lab 3 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

270A. Quantitative Methods I. (3) § F. Restriction: Doctoral students in Sociology

or consent of instructor. Lecture 2 hours. Lab 3 hours.

R. Newcomer, E. Froelicher

Course examines quantitative research methods used in sociological inquiry. The focus is on scientific models, problem formulation, use of theoretical frameworks, levels of analysis, settings and strategies, specification of constructs, and selection of indices. SOC BEH SC

277. Seminar on Disability. (1-3) § F,W, Sp Prerequisites: Doctoral students. Lab 3 hours. Seminar 1-2 hours.

M. LaPlante

Course covers social and medical models and theories of disability and handicap. Areas covered include definitions, utility of role theory, models of identification and causation, and social perspectives on disability policy. SOC BEH SC

278. Sociology of Alcohol and Drugs. (2-

3) § F. Lab 0-3 hours. Seminar 2 hours. Offered in alternate years. Offered 1996-97. K. Fillmore

Course examines alcohol and drug use from multiple theoretical perspectives in various historical and cultural contexts. Examines the distribution of alcohol and drug use across and within societies and various policies and their consequences for the control and management. SOC BEH SC

280. Meta-Analysis in Health Research.

(3) § F. Prerequisites: Basic research statistics and Research Methods (S270AB or N295). Lab 3 hours. Seminar 2 hours. Offered in alternate years. Offered 1996-97.

K. Fillmore

Course introduces meta-analysis techniques and applications in health research, including research design, sampling and data collection, and analytical techniques and software. Uses examples from drug and alcohol studies, and

Sociology

281. Justice, Equity, and Health Care. (2-3) § F. Lab 0-3 hours. Seminar 2 hours. Offered in alternate years. Offered 1996-97. J. Weinberg

Course examines how health care, a scarce resource, is divided among members of society, including theories from philosophy, medical ethics, economics, political science, sociology, and psychology. Examines justice and equity issues for different groups and among different health policies. SOC BEH SC

282. Sociology of Science/Technology. (2-4) § W. Lab 0-6 hours. Seminar 2 hours. Offered in alternate years. Offered 1996-97. A. Clarke

Course examines early functionalist and Marxist theories, Kuhn's work, social constructionist, ethnomethodolical, interactionist, neo-functionalist, critical, and neo-Marxist perspectives. Focuses on laboratory, controversy, technological, and representational studies and organization and funding. Links history and philosophy. SOC BEH SC

283. Selected Topics/Health Economics. (2-3) § W. Prerequisites: S262 (Health Care Economics). Lab 0-3 hours. Seminar 2 hours. R. Miller

Course examines selected topics in health care economics, with attention to basic economic theory of supply and demand for health care services and health insurance. Includes national health insurance proposals and the Canadian health care system. SOC BEH SC

285. Sociocultural Variations in Health. (3) § F. Lecture 2 hours. Field work 3 hours. **R.** Staples

Course addresses variations in health attitudes and practices among diverse groups in the United States, with implications for nursing practice. SOC BEH SC

285A. Qualitative Methods I. (5) § F. Prerequisites: Second-year doctoral students. Seminar 3 hours. Field work 6 hours. A. Clarke, J. DeJoseph, J. Kayser-Jones, H. Pinderhughes

Course reviews many of the types of qualitative research methods, emphasizing assumptions, approaches. Focus on design, entree, ethics, data-gathering techniques (interviewing, observing), data recording and management. Introduction to data analysis. SOC BEH SC

285B. Qualitative Methods II. (5) § W. Prerequisites: N285A/S285A and secondyear doctoral students. Seminar 3 hours. Field work 6 hours.

J. Kayser-Jones, H. Pinderhughes Course compares and contrasts modes of qualitative analysis. Examines issues in establishing plausibility, credibility, adequacy. Intensive data analysis and examination of the problems of presentation of findings with focus on questions of authority and preparation of text. SOC BEH SC

285C. Qualitative Analysis. (3) § F.W. Sp. Prerequisites: S285AB/N285AB. Restriction: Doctoral students in Sociology. Lecture 2 hours. Lab 3 hours.

A. Strauss, A. Clarke, V. Olesen In-depth experience with specific type of qualitative research guided by instructor trained and experienced in that approach. Styles of work offered by various instructors will include advanced grounded theory analysis, ethnography, hermeneutic analysis, narrative analysis. SOC BEH SC

286. Introduction to Women's Health. (2-4) § F,W, Sp. Prerequisites: None. Lecture 2 hours. Field work 0-6 hours.

A. Clarke

Course examines women's participation in formal/informal health and healing systems, emphasizing health problems, recruitment to health professions, images of women in health and illness, and women as providers. Health issues of women of color in the U.S. are highlighted. SOC BEH SC

287. Black Families in America. (2-3) § W, Sp. Lecture 2 hours. Lab 0-3 hours.

289B. Advanced Quantitative Research Methods II. (3) § W. Prerequisites: S289A and Doctoral students only. Lecture 2 hours. Lab 3 hours.

E. Froelicher, R. Newcomer Course covers continuing analysis of quantitative research methods including selected survey, longitudinal study designs. Focus compares and contrasts research designs, proposes strategies for maximizing strengths of various designs. Explores fit of research questions, methods, and statistical approaches. Examples of methods include questions answered by time series analysis, lifetable and

survival analysis. SOC BEH SC 299. Dissertation. (0) § F,W, Sp. Prerequisites: Advancement to candidacy and permission of the graduate adviser.

For graduate students engaged in writing the dissertation for the PhD degree, SOC BEH

Speech and Hearing Science

Staff

201. Basic Hearing Mechanisms. (4) § F. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 1 hour. Offered in alternate years. Not offered 1996-97. Staff

Lectures and laboratory demonstrations reviewing surgical and comparative anatomy of the ear; cochlear development and mechanics; hair cell transduction; comparative physiology of hearing; bases of hearing loss; and strategies for objective evaluation of inner ear function in animals and man. OTOLARYN

202. Auditory Coding. (4) § W. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 1 hour. Offered in alternate years. Not offered 1996-97. Staff

Lectures and laboratory demonstrations covering such topics as physiology and psychoacoustics of sound and speech coding; cochlear prostheses; central auditory system organization; physiology of binaural hearing in avians and mammals; and evaluation of auditory brainstem function in animals and man. OTOLARYN

203. Forebrain Mechanisms. (4) § Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 1 hour. Offered in alternate years. Not offered 1996-97. Staff

Topics include forebrain representation of complex spectra (including speech) and of sound localization (including echolocation in bats and whales); cognitive development related to hearing; auditory consequences of such pathologies as brain lesions and autism; and objective assessment of forebrain mechanisms. OTOLARYN

204. Speech Production and Perception. (4) §F. Lab 2 hours. Seminar 3 hours. Turner

This course is part of a two-year core curriculum covering the communicative neurosciences. It is the first course in the sequence which considers speech and language. It will cover basic acoustics, acoustic phonetics, the anatomy and physiology of speech production, and theories of speech perception. OTOLARYN

205. Language Science. (3) § Sp. Lecture 2.5 hours. Lab 2 hours. Offered in alternate years. Offered 1996-97. Turner

This is the final course in a 2-year sequence (201, 202, 203, 205). The objective of the core curriculum is to provide students with a fundamental knowledge of the speech and hearing sciences. This course covers basic language science with emphasis on the cortical processing of language. OTOLARYN

210. Fundmntl of Auditory Neurobiol. (1) § F,W, Sp. Prerequisite: Consent of instructor. Lecture 1-3 hours. Schreiner

Reading and critical discussion of selected

220. Speech and Hearing Science. (1) § F, W, Sp. Seminar 1 hour. Staff

This seminar series will consist of weekly presentations by the faculty, students, research personnel in the department, and visiting scientists. Topics will cover the range of speech and hearing sciences, including anatomy, physiology, psychophysics, speech, clinical diagnosis, and rehabilitation. OTOLARYN

221. Electrophysiology & Audiology. (4) § F. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 3 hours. Gardi and Staff

Review of the development of electrophysiological approaches to studying auditory functions with particular emphasis on auditory-evoked response measurement. Lectures and laboratory exercises will stress equipment design and calibration, data collection, analysis, and interpretation. OTOLARYN

222. Auditory Psychophys & Physiol. (3) § Sp. Lecture 3 hours. Staff

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

224. Animal Psychophysics. (3) § Sp. Seminar 3 hours. 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. OTOLARYN

225. Inner Ear Form and Function. (3) § F, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Leake

This course will consider the gross morphology, histology, ultrastructure and function of the mammalian cochlea and vestibular sensory organs. Instruction will include lectures, demonstrations, dissections and student presentations. OTOLARYN

247. Special Studies. (1-5) § F,W, Sp. Prerequisite: Consent of instructor. Staff

Directed reading and laboratory work in the auditory process and its disorders. OTOLARYN

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

Students and instructor develop jointly a study plan involving tutorials, reading, and laboratory work. Students engage in intensive exploration of specific topics related to the anatomic, physiologic, psychophysical, and behavioral aspects of the speech and hearing sciences. OTOLARYN

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

Students participate in ongoing research or initiate independent research project under guidance of supervising instructor. Assignments include literature review, design of research, execution of research, data reduction and analysis, and reporting. OTOLARYN

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

For graduate students engaged in writing the dissertation for the PhD degree. OTOLARYN

Stomatology

100. HIV/AIDS: A Current Review. (2) W. Prerequisite: Dental I, Dental Hygiene I.

Surgery

110. Clinical Clerkship in General Surgery. (1.5 per week) Su, F,W, Sp. Prerequisite: Core curriculum in basic sciences; third-year standing.

Macho

A basic course in surgery designed to cover those aspects of surgery which should be familiar to all practitioners. Students are assigned to work with ward teams and also to participate in teaching seminars. SURGERY

140.01A. Advanced Clerkship in General Surgery-UCSF Blue Service. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110, Medicine 110. Patti

Senior clinical clerks participate in clinic, ward, and operating room with direct involvement in post- and pre-operative care. SURGERY

140.01B. Advanced Clerkship in General Surgery-UCSF Gold Service. (1.5 per

week) Su, F,W, Sp. Prerequisite: Surgery 110, Medicine 110. Schrock

Senior clinical clerks participate in clinic, ward, and operating room with direct involvement in post- and pre-operative care. SURGERY

140.01D. Advanced Clerkship in General Surgery-VAH General/Vascular Service. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110, Medicine 110. Reilly

Senior clinical clerks participate in clinic, ward, and operating room with direct involvement in post- and pre-operative care. SURGERY

140.01E. General Surgery. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110. Siperstein, O. Clark, R. Allen Senior clinical clerks participate in clinic, ward, and operating room with direct involvement in post- and pre-operative care. 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. Schrock

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

140.03. General Surgery-PMC. (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, interoperative management and postoperative care of patients; participate in outpatient clinics as well as selected physicians' offices; participate in daily ward rounds and teaching conferences. SURGERY

140.04. Vascular Surgery Clerkship. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110, Surgery 110 and 111. Messina

Students serve as acting interns on the vascular surgery team, participating in preoperative, intraoperative, and postoperative manage ment of patients, as well as in clinics, rounds, and conferences. SURGERY

140.05. Operable Heart Disease. (1.5 per week) Su, F,W, Sp. Prerequisite: Core curriculum in basic sciences and Medicine 110 or Surgery 110 and 111. Hanley

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

140.06. Emergency Medicine-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Medicine 110 or Surgery 110 and 111. Neighbor

Students care for patients in the Emergency Department at SFGH as acting interns, and care for all medical and surgical problems.

140.10. Cardiothoracic Surgery. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110 and 111.

Ratcliffe

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

140.11. Burn Care-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110. J. Horn

Clinical rotation on a large Burn Center Service. Pathophysiology of thermal injury including pulmonary aspects will be stressed. Students act as integral members of the team and participate directly in patient care. SUR-GERY

140.12A. Adv Clerkship in Plastic/

Reconstr Surgery-UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110, Medicine 110.

Mathes

Students act as advanced clerks, taking part in operative procedures as well as postoperative management of the patient. Students will be exposed to patients with general reconstructive problems; trauma to the head and neck, hand surgery, and congenital anomalies. SURGERY

140.12B. Adv Clerkship in Plastic/

Reconstr Surgery-SFGH. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110, Medicine 110. Mathes

Students act as advanced clerks, taking part in operative procedures as well as postoperative management of the patient. Students will be exposed to patients with general reconstructive problems; trauma to the head and neck, hand surgery, and congenital anomalies. SURGERY

140.13. General Surgery-VAF. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110 and 111. Guernsey, Wille

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

140.14. Surgical Intensive Care Clerkship-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110 and 111. Fourth-year students only. Davis, Gladen

Clerkship offers an "organ systems" approach to critical surgical illness with experience in invasive and noninvasive monitoring and appropriate therapeutic interventions. Course is aimed at providing patient management experience and familiarity with basic science concepts and literature upon which surgical intensive care is based. SURGERY

140.15. Burn Center Clerkship-VMC. (1.5 per week) Su, F, W, Sp. Prerequisite: Surgery 110 and 111. Fourth-year students only. Dominic

Presents a clinical spectrum in critical-care medicine: burn wound infection control, resuscitative 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

140.16. Nutritional Support Service-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110. Hickey, Weaver

Students will be instructed in the formulation and administration of parenteral and enteral feedings; the insertion of subclavian catheters; the management of metabolic/nutritional problems. Students will perform nutritional assignments and activity, and participate in daily rounds at San Francisco General Hospital. SURGERY

40.17. Pediatric Surgery. (1.5 per week)

Course provides a sociological interpretation of the black family institution in the United States of America. It examines black family culture, values, roles, socialization processes and class and gender variations. Emphasis is on changes in the last thirty years. SOC BEH

288. Advanced Seminar on HIV/AIDS. (1) § F,W, Sp. Prerequisites: Doctoral students in HIV/AIDS. Seminar 1 hour.

C. Harrington, R. Stall, W. Holzemer Doctoral seminar for presentations and critiques of student work in progress on HIV/ AIDS. SOC BEH SC

289A. Advanced Quantitative Research Methods I. (3) § F. Prerequisites: N209 and N212 or equivalent, B187 and Doctoral students only Lecture 2 hours. Lab 3 hours.

R. Newcomer, E. Froelicher

Course addresses theoretical basis of advanced quantitative methods. Fundamental issues of causality, and design issues pertinent to causality, are addressed using randomized clinical trials as models for experimental designs. Methods of sampling and issues in data collection and measurement are explored. SOC BEH SC

physiology of the auditory system. Each level of the auditory nervous system from the periphery to the cortex will be considered in turn.OTOLARYN

211. Sound and Sound Analysis. (4) § F. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 2 hours. Offered in alternate years. Offered 1996-97. Staff

Review of the physics of sound as it applies to the study of speech and hearing. Theoretical and practical approaches to the analysis of signals and the fundamentals of system analysis. Practical application of acoustic research equipment. OTOLARYN

215. Laboratory Rotation. (1-4) § F,W, Sp. Prerequisite: Consent of instructor. Lab 3-12 hours.

Staff

For students who arrange a rotation in the research laboratory of a faculty member. Students will participate in an ongoing research project and review relevant literature. OTOLARYN

Lecture 2 hours. Bartnof, D. Greenspan, Levy

An overview of the HIV/AIDS pandemic, with a selected focus on basic and clinical sciences, and social/psychosocial aspects. Sixteen hours are presented in lecture format, two hours as panel presentations, and two hours as emphasized review sessions. STOMATOL

419. Practice Teaching. (1-2) Su, F,W, Sp. Prerequisite: DDS degree. Clinic 30-60 hours.

Taggart

Practical teaching experience in selected courses under the supervision of members of the staff. STOMATOL

429. Practice Teaching. (1-2) Su, F, W, Sp. Prerequisite: DDS degree. Clinic 30-60 hours.

Taggart

Practical teaching experience in selected courses under the supervision of members of the staff. STOMATOL

439. Practice Teaching. (1-2) Su, F,W, Sp. Prerequisite: DDS degree. Clinic 30-60 hours.

Taggart

Practical teaching experience in selected courses under the supervision of members of the staff. STOMATOL

The rotation focuses on wound-care techniques (including suturing), didactic conferences, and bedside one-to-one instruction by senior residents and faculty. SURGERY

140.07. Shock & Trauma Research. (1.5 per week) Su, F,W, Sp. Prerequisite: Core curriculum in basic sciences and Medicine 110 or Surgery 110 and 111.

Schecter

Course involves clinical and laboratory investigation and a detailed study of specific patients with trauma and shock. SURGERY

140.08. General Surgery-C. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110 & Medicine 110.

Roan

Students work as interns on Surgical Service; they evaluate general surgical patients preoperatively; work with patients in operating room; assume graduated, increasing responsibility in postoperative management. Rounds and conferences enhance clinical experience; interaction with staff in patient care emphasized. SURGERY

Su, F,W, Sp. Prerequisite: Surgery 110 and 111. Clinic 40.

Harrison

The student works as acting intern on a busy pediatric surgical service assisting in pre- and postoperative management and in the operation. An interesting, wide variety of problems is encountered. 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 recipient (including HLAtyping, crossmatch, immune monitoring). observe the liver transplant procedure, participate in postoperative care (including immunosuppressive management and mechanisms of graft rejection). Student will attend pertinent conferences, clinics, and daily rounds. SURGERY

140.19. Advanced Clinical Surgery-VMC. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110 and 111.4th-year standing.

Parks

Senior clerkship 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 140.21. Clinical Trauma Surgery-VMC. (1.5 per week). Su, F,W, Sp, SS1, SS2. Prerequisite: Surgery 110. S. Parks, J. Davis

Subinternship responsibilities are to participate on a busy patient care trauma service emphasizing resuscitation, evaluation of injury, operating room participation, postoperative followup. There is also experience with non-operative management of trauma. The student will participate in departmental conferences. SURGERY

140.22. Trauma and General Surgery-

SFGH. (1.5 per week). Su, F,W, Sp. Prerequisite: Surgery 110 and Medicine 110. Lecture 4 hours. Clinic 4 hours. Patient contact 24 hours.

Schecter

Senior clinical clerks participate in the clinic, ward, and operating room with direct involvement in pre- and postoperative care. There is also work at the intern-clerk level as an integral part of the Trauma Service. SUR-GERY

150.01. Research in Surgery. (1.5 per week) Su, F,W, Sp. Prerequisite: Consent of instructor.

Hunt

Opportunities for research in one of the departmental laboratories by arrangement with the instructor. SURGERY

160.01. Frontiers in Modern Surgery. (1) W. Restrictions: Medical students only. Seminar 1 hour.

Way The elective is designed to introduce 1st- and

2nd-year medical students to surgical medicine at UCSF.Weekly nontechnical presentations will be given by faculty representing different fields of surgery. Emphasis will be on procedures/outcomes.SURGERY

160.05. Advanced Surgery Reading. (2) F,

Schecter

A weekly seminar where previously assigned papers are discussed and critiqued. Papers representing the classical and current concepts in general surgery are covered. SUR-GERY

160.06. Total Parenteral Nutrition. (5) Su, F,W, Sp. Prerequisite: Surgery 110 and consent of instructor. Lecture 3 hours. Lab 6 hours.

Hickey

Course emphasizes nutritional and metabolic requirements of injured, ill, and malnourished patients. Clinical rotation involves methods of preparation, administration, and assessment of patients receiving calorie protein or amino acid support as part of specific therapy. SUR-GERY

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

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

Schrock and Staff

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

400. General Surgery Staff Conf. (1.5) F, W, Sp.

UC Schrock, SFGH 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. SUR GERY

402. General Surgery Pathology Sem. (1) F,W, Sp. Interns and residents.

McKerrow Seminars include case reports and demonstrations of the currently available gross and microscopic surgical pathological material from the operating rooms and pathology laborato-ries. SURGERY

403. General Surgery Seminar. (2) Su, F, W, Sp. Interns and residents.

DMC Heer, SFGH Lewis, UC Debas, 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 Debas, SFGH Lewis, VA L. Way, DMC Heer, CV. Richards, PMC Russell

Residents, under supervision, are responsible for the preparation of case records, laboratory work, preoperative patient preparation, assistance at operations, postoperative care, and attendance at follow-up clinic. Senior residents have certain additional administrative, teaching, and clinical responsibilities. SUR-GERY

452. Experimental Surgery Laboratory. (1.5 per week) Su, F,W, Sp. Restriction: Surgery 450 and 452 may not be taken concurrently.

Debas 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

453. Clinical Experimental Surgery. (10) Su, F,W, Sp.

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

490. Clinical Surgery-SFGH. (1.5 per

service, including the intensive care unit. experience is provided in vascular, chest, hand cial injuries. SURGERY

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

Teaching Methodology

170. Educational Technology. (1) F,W, Sp. Prerequisite: DDS degree. Seminar 2 hours. Staff

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

186.01A-B-C. Practice Teaching. (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

Toxicology

200A. Introduction to Biochemical Toxicology. (4) § Sp. Prerequisite: Consent of instructor. Lecture 4 hours.

Meehan, Hawkes, Benet

The metabolism and bioactivation of drugs, carcinogens, and other toxicants will be presented, and these examples will serve to illustrate how toxic substances alter and disrupt normal cellular processes at the molecular level. BIOPHARM SC

Urology

Core Clerkship-Surgery 110 includes clinical clerkships in the outpatient clinics and hospitals, assistance at operations, and participation in residents' seminars

140.01. Advanced Urology Clerkship-UC. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110. Tanagho

Students work as interns on the Urology Service at UC. They also attend rounds and scheduled seminars with residents and visiting staff. UROLOGY

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

Clinical clerkship in off-campus hospitals approved by the chairperson of the department and the dean. UROLOGY

140.03. Advanced Urology Clerkship-VA. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110. Presti

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Students work as interns on the Urology Service atVA. They also attend rounds and scheduled seminars with residents and visiting staff. UROLOGY

140.04. Advanced Urology Clerkship-SFGH. (1.5 per week) Su, F,W, Sp. Prerequisite: Surgery 110. McAninch

Students work as interns on the Urology Service at SFGH. They also attend rounds and scheduled seminars with residents and visiting staff. UROLOGY

150.01. Research in Urology. (1.5 per week) Su, F,W, Sp. Prerequisite: Must be third- or fourth-year medical student. Must have approval of chair, dean, and involved research faculty. Carroll

Research project under the direction of a member of the Department of Urology. UROLOGY

170.01. Fundamentals of Urology. (2) F, W, Sp. Prerequisite: Consent of instructor. Tanagho and Staff Seminar and library research. UROLOGY

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

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

400. Urology Seminar. (1.5) Su, F,W, Sp. Tanagho

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

402. Urologic Clinical Seminar. (2) Su, F, W, Sp. Tanagho Seminar includes discussion of diagnosis and treatment of patients in the urology wards

with the attending staff. UROLOGY

490. Clinical Urology-SFGH. (1.5 per week) Su, F,W, Sp. 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 consultation. UROL-OGY



Schrock

week) Su, F,W, Sp. Schecter

Interns rotate through the general surgical Under the direction of the attending staff, and plastic surgery, and surgery of maxillofa-

495. Clinical Surgery. (1.5 per week) Su, F, W, Sp. Schrock