Courses

This chapter is a compendium of the courses of instruction offered by the University of California, San Francisco. Courses are arranged in numerical order under alphabetically listed subject headings. As these headings do not in every case correspond to a department, the responsible department or other instructional unit is indicated at the end of the course description for each course. Information used for these departments or instructional units are spelled out in the list below. Questions about individual courses should be addressed to the indicated department or institutional unit for information, for example, that the placement of courses in various departments in the different established curricula follows, but are not always found in the bulletins of the four Schools.

Course Description—Course Information is arranged in two paragraphs, one for each term periods separating items. The paragraph includes course number, title, units, prerequisites, if applicable, and a breakdown of hours per week, and instructor. In the second paragraph describes the course followed, by department or other instructional unit.

Course Numbers—All courses are numbered accordingly, as follows: 100-299 series—upper division course, 200 and 500 series—graduate academic course, and 300 series—professional course. The meanings of the second (ten) and first (units) digits vary among schools. A detailed explanation of course numbering is available from the Office of the Dean of each school. The symbol symbolizes the units designates a course approved for credit toward a graduate academic degree.

Departments and Other Instructional Units:

- ANATOMY
- ANESTHESIA
- BIOCHEM
- BIOC DISFUNC
- CL PHARM
- DEMATOL
- EPID INTHEALTH
- FAM CAM MED
- FAM HETH
- GEN DENT
- GR DEVEL
- HIST HL SC
- LAB MED
- MED BLUS
- MED INF SC
- MENT HETH
- MICROBIO
- NEURO SBG
- OB GYN RS
- PHIL
- OPTIMAL
- ORAL MED
- ORTHO SURG
- OTOLARYN
- PATHOLOGY
- PEDIATRICS
- PERIODONT
- PHARM CHEM
- PHARMACOL
- PHARMACY
- PHYS THER
- PHYSIOLOGY
- PSYCHAD
- RESTOR DENT
- SOB HESC
- SURGERY
- UROLOGY
- VHLC

Departments of:

- Anatomy, School of Medicine
- Anesthesia, School of Medicine
- Biochemistry, School of Medicine
- Bioc Dysfunc, School of Medicine
- Clinical Pharmacy, School of Pharmacy
- Dermatology, School of Medicine
- Epidemiology and International Health, School of Medicine
- Family and Community Medicine, School of Medicine
- Family Health Care Nursing, School of Nursing
- General Dentistry, School of Dentistry
- Growth and Development, School of Dentistry
- History of Health Sciences, School of Medicine
- Laboratory Medicine, School of Medicine
- Medical Education, School of Medicine
- Medical Information Science, School of Medicine
- Mental Health and Community Nursing, School of Nursing
- Microbiology, School of Medicine
- Neurology, School of Medicine
- Obstetrics, Gynecology, and Reproductive Sciences, School of Medicine
- Optometry, School of Medicine
- Oral Medicine, School of Medicine
- Orthodontic Surgery, School of Medicine
- Otolaryngology, School of Medicine
- Pathology, School of Medicine
- Pediatrics, School of Medicine
- Periodontology, School of Dentistry
- Pharmacology, School of Medicine
- Pharmacy, School of Medicine
- Physiotherapy, School of Medicine
- Physiology, School of Medicine
- Psychiatry, School of Medicine
- Radiology, School of Medicine
- Restorative Dentistry, School of Dentistry
- Sociology of Social and Behavioral Sciences, School of Medicine
- Surgery, School of Medicine
- Urology, School of Medicine

Hospitals:

- A: Alta Bates Hospital, Berkeley
- B: Breast Health Institute, San Francisco
- C: Children's Hospital and Aid Society, San Francisco
- D: Children's Hospital of Orange County, Orange, California
- E: Children's Hospital of Philadelphia, Philadelphia
- F: Children's Hospital of San Antonio, San Antonio
- G: Children's Hospital of the University of California, San Francisco
- H: Children's Hospital Oakland, Oakland
- I: Children's Hospital of the University of Pennsylvania, Philadelphia
- J: Children's Hospital of Oregon, Portland
- K: Columbia Presbyterian Medical Center, New York
- L: Children's Hospital of the University of California, San Francisco
- M: Children's Hospital, San Francisco
- N: Children's Hospital, San Francisco
- O: Children's Hospital of the University of California, San Francisco
- P: Children's Hospital, San Francisco
- Q: Children's Hospital, San Francisco
- R: Children's Hospital, San Francisco
- S: Children's Hospital, San Francisco
- T: Children's Hospital, San Francisco
- U: Children's Hospital, San Francisco
- V: Children's Hospital, San Francisco
- W: Children's Hospital, San Francisco
- X: Children's Hospital, San Francisco
- Y: Children's Hospital, San Francisco
- Z: Children's Hospital, San Francisco
The structure and function of the mammalian respiratory system is studied in detail. Functional anatomy,包括 its role in respiration and blood flow, is discussed. The muscular and skeletal systems, including the anatomy of the musculature and the skeleton, are also covered. Functional anatomy, anatomy, and the study of the respiratory system is included.

165. Human Anatomy of the Trunk and Upper Extremity. (5) F Lecture 2 hours, Lab 3 hours.

The gross structures of the trunk and upper extremity are studied through demonstration dissection. Consideration is given to the functional aspects of the structures studied. ORAL MED.

168. Human Anatomy of the Head, Neck, and Cranial Nerves. (4) F Lecture 3 hours, Lab 3 hours.

W. Kaiser

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

170. Advanced Head and Neck Anatomy. (1) F, W Lecture 1 hour, Lab 1 hour, Lab 12 hours.

R. D. Coleman

Designed for postgraduate specialty certi-

fied students enrolled in the clinical spe-

cific training programs in the School of Den-

tem. Lecture presentation and dem-

stration of head and neck anatomy are cor-

related with their clinical training.

170.01. Problem Areas in Clinical Anatomy. (1) Su, W, F, W Prerequisite: Concurrent enrollment in ORAL MED.

A three-component elective, focusing on specific areas in the clinical sciences, with particular emphasis on the head and neck region. The course is designed for residents and graduate students.

170.02. Survey of Congenital Defects. (2) Lecture 2 hours, Lecture 2 hours, Lab 3 hours.

W. Kaiser

Course covers the anatomical and clinical aspects of congenital defects. Consideration is given to the functional and structural aspects of the defects. ORAL MED.
222A-B-C. Writing Skills for Medical Anthropology. (2-3) F, Sp. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 5 hours.

Mittweder
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 anthropological and medical research. 

EIDP INTL HTH

228. Computer Methods in Anthropology. (3-4-3) Sp. Prerequisite: Consent of instructor. Lecture 3 hours. Lab 5 hours.

Staff
An introduction to data processing methods most commonly used by medical anthropologists. Topics covered will include data entry, laboratory and data analysis: how to read and interpret statistical test results, the use of SPSS and other data analysis packages, and the use of computerized databases.

EIDP INTL HTH

229. Topics in Medical Anthropology. (2-4) Sp. Prerequisite: Consent of instructor. Lecture 3 hours.

Staff
Introduction to selected contemporary and current issues in medical anthropology, including sociological, psychological, and demographic approaches to the study of health and illness.

EIDP INTL HTH

231. History and Theory of Anthropology. (3-3) F. Prerequisite: Consent of instructor. Lecture 3 hours.

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

EIDP INTL HTH


Aldron
Examination of social attributions of stigma to such conditions as deafness, alcoholism, mental illness, and various disabilities. Self-help groups organized around such conditions, and other groups which have been affected such as the deaf. Guest speakers who have experienced these conditions will contribute to the course. 

EIDP INTL HTH

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

Kicler
Exploration of the relationship between culturally and conditioned ways of perceiving, thinking, and communicating, and individu- al behavior and personality development. Special attention will be paid to findings in medical and nursing settings. 

EIDP INTL HTH

235. Cultural Identity. (2-3) F or W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 5 hours independent study for 3 units.

M. Clark, Hartog, Madura
Course examines the role of cultural beliefs and patterns in the treatment of mental disorder including folk healers and folk healing prac- tices, with special reference to methods and implications for community psychiatry. Students study folk healers and folk healing practices. 

EIDP INTL HTH

238. Shamanism and Related Phenom- ena. (2-5) F. Prerequisite: Consent of instructor. Lecture 3 hours.

M. Clark and Staff
Cross-cultural approaches to the study of shamanism, with specific emphasis on traditional practitioners. Topics may include the relationship of shamanism to religion and the psychological effects of trance. 

EIDP INTL HTH

239. Comparative Family Systems. (3-5) F. Prerequisite: Consent of instructor. Lecture 2 hours, plus 5 hours independent study for 3 units.

Madero
Survey of conceptual approaches to family study and modes of family assessment. Structure and dynamics of varying family systems 

EIDP INTL HTH

240. Urban Anthropology. (2-3) F, W or Sp. Prerequisite: Consent of instructor. Lecture 2 hours, plus 5 hours independent study for 3 units. 

Aldron

EIDP INTL HTH

241. Social Deviance. (3-5) W or Sp. Prerequisite: Consent of instructor. Lecture 3 hours. 

Lewin
An examination of the significance of deviant behavior in various social and cultural groups in urban areas. 

EIDP INTL HTH

242. Anthropological Considerations in Mental Health. (2-3) W or Sp. Prerequisite: Consent of instructor. Lecture 3 hours.

Aldron, Leighton
A survey of principles and practice in the community mental health field. Focus on the significance of social factors in the delivery of mental health services. 

EIDP INTL HTH

243. Interfaces Between Law and Medicine: An Anthropological Perspec- tive. (2-5) W. Prerequisite: Consent of instructor. Lecture 3 hours.

Todd, Ruffino
A cross-cultural survey of the problems of law at the interface between medicine and law, including medical and legal definitions of mental illness, the role of paid caregivers in the delivery of mental health services, and the role of advocate. 

EIDP INTL HTH
249. Directed Reading. (1-3) F, W. Pre- requisite: Consent of instructor. Lecture 3 hours, plus 3 hours independent study.

250. Anatomy. (3) F, S. Pre-requisite: Consent of instructor. Independent study. EPID INTL 106

251. Seminar in Social Gerontology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

252. Nutritional Anthropology. (3) S. Prerequisite: Consent of instructor. Lecture 2 hours.

253. Seminar in Clinical Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours.

254. Selected Topics in the Social Processes of Aging. (3) S. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

255. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

256. Epidemiology. (3) F, S. Prerequisite: Consent of instructor. Lecture and independent study. EPID INTL 106

257. Dissertation. (1-9) F, S. Prerequisite: Approval of candidate and committee. Research. EPID INTL 106

258. Group Study. (1-5) S. F, W. Prerequisite: Consent of instructor.

259. Biological Perspectives on Growth and Development. (3) F, W. Pre-requisite: Consent of instructor. Lecture 5 hours.

260. Biochemistry. (3) F, W. Prerequisite: Consent of instructor. Lecture 3 hours.

261. Directed Reading. (1-3) S, F, W. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

262. Seminar in Social Gerontology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

263. Nutritional Anthropology. (3) S. Prerequisite: Consent of instructor. Lecture 2 hours.

264. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours.

265. Selected Topics in the Social Processes of Aging. (3) S. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

266. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

267. Dissertation. (1-9) F, S. Prerequisite: Approval of candidate and committee. Research. EPID INTL 106

268. Group Study. (1-5) S. F, W. Prerequisite: Consent of instructor.

269. Biological Perspectives on Growth and Development. (3) F, W. Pre-requisite: Consent of instructor. Lecture 5 hours.

270. Biochemistry. (3) F, W. Prerequisite: Consent of instructor. Lecture 3 hours.

271. Directed Reading. (1-3) S, F, W. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

272. Seminar in Social Gerontology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

273. Nutritional Anthropology. (3) S. Prerequisite: Consent of instructor. Lecture 2 hours.

274. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours.

275. Selected Topics in the Social Processes of Aging. (3) S. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

276. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

277. Dissertation. (1-9) F, S. Prerequisite: Approval of candidate and committee. Research. EPID INTL 106

278. Group Study. (1-5) S. F, W. Prerequisite: Consent of instructor.

279. Biological Perspectives on Growth and Development. (3) F, W. Pre-requisite: Consent of instructor. Lecture 5 hours.

280. Biochemistry. (3) F, W. Prerequisite: Consent of instructor. Lecture 3 hours.

281. Directed Reading. (1-3) S, F, W. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

282. Seminar in Social Gerontology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

283. Nutritional Anthropology. (3) S. Prerequisite: Consent of instructor. Lecture 2 hours.

284. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours.

285. Selected Topics in the Social Processes of Aging. (3) S. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

286. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

287. Dissertation. (1-9) F, S. Prerequisite: Approval of candidate and committee. Research. EPID INTL 106

288. Group Study. (1-5) S. F, W. Prerequisite: Consent of instructor.

289. Biological Perspectives on Growth and Development. (3) F, W. Pre-requisite: Consent of instructor. Lecture 5 hours.

290. Biochemistry. (3) F, W. Prerequisite: Consent of instructor. Lecture 3 hours.

291. Directed Reading. (1-3) S, F, W. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

292. Seminar in Social Gerontology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

293. Nutritional Anthropology. (3) S. Prerequisite: Consent of instructor. Lecture 2 hours.

294. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours.

295. Selected Topics in the Social Processes of Aging. (3) S. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

296. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

297. Dissertation. (1-9) F, S. Prerequisite: Approval of candidate and committee. Research. EPID INTL 106

298. Group Study. (1-5) S. F, W. Prerequisite: Consent of instructor.

299. Biological Perspectives on Growth and Development. (3) F, W. Pre-requisite: Consent of instructor. Lecture 5 hours.

300. Biochemistry. (3) F, W. Prerequisite: Consent of instructor. Lecture 3 hours.

301. Directed Reading. (1-3) S, F, W. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

302. Seminar in Social Gerontology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

303. Nutritional Anthropology. (3) S. Prerequisite: Consent of instructor. Lecture 2 hours.

304. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours.

305. Selected Topics in the Social Processes of Aging. (3) S. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

306. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

307. Dissertation. (1-9) F, S. Prerequisite: Approval of candidate and committee. Research. EPID INTL 106

308. Group Study. (1-5) S. F, W. Prerequisite: Consent of instructor.

309. Biological Perspectives on Growth and Development. (3) F, W. Pre-requisite: Consent of instructor. Lecture 5 hours.

310. Biochemistry. (3) F, W. Prerequisite: Consent of instructor. Lecture 3 hours.

311. Directed Reading. (1-3) S, F, W. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

312. Seminar in Social Gerontology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

313. Nutritional Anthropology. (3) S. Prerequisite: Consent of instructor. Lecture 2 hours.

314. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours.

315. Selected Topics in the Social Processes of Aging. (3) S. Prerequisite: Consent of instructor. Independent study. EPID INTL 106

316. Seminar in Social Anthropology. (2-4) F, S. Pre-requisite: Consent of instructor. Lecture 2 hours, plus 3 or more independent study, for 3 or 4 units.

317. Dissertation. (1-9) F, S. Prerequisite: Approval of candidate and committee. Research. EPID INTL 106

318. Group Study. (1-5) S. F, W. Prerequisite: Consent of instructor.

319. Biological Perspectives on Growth and Development. (3) F, W. Pre-requisite: Consent of instructor. Lecture 5 hours.

320. Biochemistry. (3) F, W. Prerequisite: Consent of instructor. Lecture 3 hours.
215. Preparation for Research in Biochemistry and Biophysics. (3, 5) S. Prerequisite: Consent of instructor. Lecture 3 hours.

245. Developmental Biology. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

221. Student Seminar. (0.5) S, W, S. Prerequisite: Consent of instructor. Lecture 1 hour.

222. Structural Analysis. (3) W, S, S. Prerequisite: Consent of instructor. Lecture 1 hour.

239. Biodynamics. (1) W, S, S. Prerequisite: Consent of instructor. Lecture 1 hour.

246. Developmental Biology. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.


256. Dental Materials Survey. (1) S. Lecturer 1 hour.

120. Bioremediation Science. (1) W. Lecture 1 hour.

125. Advanced Calculus and Differential Equations. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

127. Algebra and Calculus for Biomedical Use. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

129. Biodynamics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

130. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

135. Computer and Data Analysis in Biochemistry and Biophysics. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

137. Computer and Data Analysis in Biochemistry and Biophysics. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

140. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

146. Dental Materials Survey. (1) S. Lecturer 1 hour.

160. Mathematical and Physical Methods in Biomedical Analysis. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

165. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

170. Biometrics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

175. Advanced Topics in Biomechanics. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

176. Advanced Topics in Biomechanics. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

180. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

185. Advanced Topics in Biomechanics. (3) S. Prerequisite: Consent of instructor. Lecture 1 hour.

190. Laboratory Project in Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

195. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

196. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

197. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

198. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

199. Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

200. Advanced Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

201. Advanced Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.

202. Advanced Biomechanics. (1) S. Prerequisite: Consent of instructor. Lecture 1 hour.
Course will focus on data analysis of studies in which summary statistics and point estimates are given. Topics will include sample size, confidence intervals, and the design and analysis of both prospective and retrospective studies, matched samples and misclassification errors. EPID INTL HETH.

204. Applied Regression Analysis and Analysis of Variance. (3) E. W. Prerequisite: Biostatistics 185 or equivalent. Lecture 3 hours. Lab 0-3 hours. Equivalent to Biomedical Science 220A.

205. Nonparametric Methods. (3) S. W. Prerequisite: Biostatistics 185 or equivalent. Lecture 3 hours. Lab 0-3 hours. Equivalent to Biomedical Science 220B.

206. Advanced Analysis of Variance. (3) S. W. Prerequisite: Biostatistics 185 or equivalent. Lecture 3 hours. Lab 0-2 hours. Equivalent to Biomedical Science 220C.

207. Analysis of Variance in Experimental Design. (3) S. W. Prerequisite: Biostatistics 185. Lecture 3 hours. Lab 0-2 hours.

208. Multivariate Analysis. (3) S. W. Prerequisite: Biostatistics 185 or equivalent. Lecture 3 hours. Lab 0-2 hours.

Course covers multivariate methods from several areas such as multivariate analysis of variance, factor analysis and classification methods, and the design and interpretation of these procedures with real data. EPID INTL, HETH.

209. Applied Regression Analysis and Analysis of Variance. (3) S. W. Prerequisite: Biostatistics 185 or equivalent. Lecture 3 hours. Lab 0-3 hours. Equivalent to Biomedical Science 220A.

210. Nonparametric Methods. (3) S. W. Prerequisite: Biostatistics 185 or equivalent. Lecture 3 hours. Lab 0-3 hours. Equivalent to Biomedical Science 220B.

211. Advanced Analysis of Variance. (3) S. W. Prerequisite: Biostatistics 185 or equivalent. Lecture 3 hours. Lab 0-2 hours. Equivalent to Biomedical Science 220C.

212. Analysis of Variance in Experimental Design. (3) S. W. Prerequisite: Biostatistics 185. Lecture 3 hours. Lab 0-2 hours.

213. Multivariate Methods. (3) S. W. Prerequisite: Biostatistics 185 or equivalent. Lecture 3 hours. Lab 0-2 hours.

Chemistry 11. Organic Chemistry. (3) F. Prerequisite: Chemistry 1A-B or C or equivalent. Lecture 3 hours. Lab 2 hours.

Staff: An introductory study of the structure, stereochemistry, reactivity and functionality of compounds of carbon. PHARM CHEM 117.

12. Organic Chemistry. (3) W. Prerequisite: Chemistry 11 Lecture 3 hours.

Staff: A continuation of the study of compounds of carbon including functional group complements. PHARM CHEM.

15. Physical Chemistry. (3) S. Prerequisite: Consent of instructor. Lecture 3 hours.

Staff: Selected topics at an introductory level, which vary from year to year. Past topics included structure of nucleic acid and proteins, quantum chemistry, and spectroscopy. PHRM CHEM.

18. Physical Chemistry—Laboratory. (3) W. Prerequisite: Chemistry 11 and 116 Lab 3 hours.

Staff: Laboratory exercises in spectroscopy. PHRM CHEM.

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

Staff: An advanced study of the composition of carbon including some aromatic, hydroaromatic, and heterocyclic compounds. PHRM CHEM.

15. Physical Chemistry. (3) F. Prerequisite: Chemistry 11 Lecture 3 hours. Lab 2 hours. Staff: A continuation of the study of compounds of carbon including functional group complements. PHARM CHEM.

16. Physical Chemistry—Laboratory. (3) W. Prerequisite: Chemistry 11 and 116 Lab 3 hours.

Staff: Laboratory exercises in spectroscopy. PHRM CHEM.

17. Organic Chemistry—Laboratory. (2) W. Prerequisite: Chemistry 11 Lecture 1 hour Lab 9 hours.

Staff: A study of the reactions of organic compounds by applying a system of qualitative analyses to the determination of characteristic groups. PHARM CHEM.

18. Physical Chemistry—Laboratory. (3) W. Prerequisite: Chemistry 11 and 116 Lab 3 hours.

Staff: Laboratory exercises in laboratory. PHRM CHEM.

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

Staff: An advanced study of the composition of carbon including some aromatic, hydroaromatic, and heterocyclic compounds. PHRM CHEM.

15. Physical Chemistry. (3) F. Prerequisite: Chemistry 11 Lecture 3 hours. Lab 2 hours. Staff: A continuation of the study of compounds of carbon including functional group complements. PHARM CHEM.

16. Physical Chemistry—Laboratory. (3) W. Prerequisite: Chemistry 11 and 116 Lab 3 hours.

Staff: Laboratory exercises in spectroscopy. PHRM CHEM.

17. Organic Chemistry—Laboratory. (2) W. Prerequisite: Chemistry 11 Lecture 1 hour Lab 9 hours.

Staff: A study of the reactions of organic compounds by applying a system of qualitative analyses to the determination of characteristic groups. PHARM CHEM.

18. Physical Chemistry—Laboratory. (3) W. Prerequisite: Chemistry 11 and 116 Lab 3 hours.

Staff: Laboratory exercises in laboratory. PHRM CHEM.

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

Staff: An advanced study of the composition of carbon including some aromatic, hydroaromatic, and heterocyclic compounds. PHRM CHEM.
149A. Ambulatory Externship Clerk- ship. Continuation of Clinical Pharmacy 149A. Prior approval of all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination. Clinic: 36 hours per week for six weeks.

149B. Ambulatory Externship Clerk- ship. Continuation of Clinical Pharmacy 149A. Clinic: 36 hours per week for six weeks.

149A0.A. Ambulatory Externship Clerk- ship at San Diego. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A, third year comprehensive examination. Clinic: 36 hours per week for six weeks.

149A0.B. Ambulatory Externship Clerk- ship at San Diego. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A, third year comprehensive examination. Clinic: 36 hours per week for six weeks.

149A2.A. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for six weeks.

149B. Ambulatory Externship Clerk- ship. Continuation of Clinical Pharmacy 149A. Clinic: 36 hours per week for six weeks.


155. Oncology Seminar. (1) F, W, Sp. Prerequisite: Clinical Pharmacy 130. Consent of instructor. Lecture 1 hour; seminar 1 hour.


157A. Inpatient Pediatric Service. (1-4) F, W, Sp. Prerequisite: Clinical Pharmacy 149A and 149B. Consent of instructor.


157C. Inpatient Pediatric Service. (1-4) F, W, Sp. Prerequisite: Clinical Pharmacy 149A and 149B. Consent of instructor.

157D. Inpatient Pediatric Service. (1-4) F, W, Sp. Prerequisite: Clinical Pharmacy 149A and 149B. Consent of instructor.


158A. Tumor Seminar. (1) F, W, Sp. Prerequisite: Clinical Pharmacy 130. Consent of instructor. Lecture and seminar 1 hour.


158C. Tumor Seminar. (1) F, W, Sp. Prerequisite: Clinical Pharmacy 130. Consent of instructor. Lecture and seminar 1 hour.

158D. Tumor Seminar. (1) F, W, Sp. Prerequisite: Clinical Pharmacy 130. Consent of instructor. Lecture and seminar 1 hour.

159A. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159B. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159C. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159D. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159A2. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159B2. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159C2. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159D2. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159A3. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159B3. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159C3. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159D3. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159A4. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159B4. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159C4. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159D4. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159A5. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159B5. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159C5. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.

159D5. Ambulatory Externship Clerk- ship at UC Irvine and Long Beach. (6.5) F, W. Sp. Prerequisite: Clinical Pharmacy 149A. Clinic: 36 hours per week for all first, second and third year courses and Clinical Pharmacy 150 series comprehensive examination.
175.43. Diabetes Clinic at UC (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 144A or 144B. Consent of instructor.

M. Kibble Students participate in the activities of the Diabetes Clinic, including patient education, drug therapy consultation and management, and attendance at conferences and seminars. At option of student, a special project may be designed in consultation with the clinical pharmacist.

175.44. Tropical Medicine Clinic at UC (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 144A or 144B. Consent of instructor.

M. Koo Students participate in the activities of the Tropical Medicine Clinic. Emphasis is placed on patient interviews and rational treatment of parasitic diseases. Special project is optional.

175.45. Anticoagulation Clinic at UC (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 144A or 144B. Consent of instructor.

Kayer Students participate in the activities of the Anticoagulation Clinic. Special project is required, the subject of which shall be chosen by the student, with the consent of the preceptor.

175.46. Hematology-Oncology Clinic at UC (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 144A or 144B. Consent of instructor.

Ignoffo Students participate in the daily activities of the Hematology-Oncology and/or Oncology Clinic. Special project is required. Consent of instructor.

175.47. Rheumatology Clinic at UC (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 144A or 144B. Consent of instructor.

A. L. Leeds Students participate in the activities of the Rheumatoid Disease and/or Arthritis Clinic. Special project is required, the subject of

which shall be chosen by the student, with the consent of the preceptor.

175.60. Clerkship at Ross Valley Pharmacy. (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor.

M. Kibble, Lohbolom 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 setting. Consent of instructor.


M. Kibble, Kamal, Olayos Students take patient medication inter views, explain medication usage to patients, and answer drug therapy questions generated by physicians, pharmacists and patients in a pharmacy setting. Consent of instructor.


M. Kibble, Whooley, A. Rogers Students collect data for a problem-oriented medication record, dispense medication, educate patients as to proper medication usage and provide drug therapy recommendations for patients assigned to the students for the purposes of chronic therapy management. Consent of instructor.

175.65. Clerkship at Sunset Mental Health Clinic. (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 144A or 144B. Consent of instructor.

M. Kibble, T. Wong, S. Cohen, S. Kaufman Students work with the clinical pharmacist to evaluate psychiatric patients’ response to therapy and counseling, and provide consultation on problems that relate to topics on problems related to the use of intravenous fluid therapy in various disease states. Consent of instructor.


M. Kibble, Inaba Students work as community pharmacists to supervise the clinical practice of physicians and to develop individual therapy plans for drug distribution. Where needed, students develop detailed drug information reports and present specific information on drug therapy problems encountered in monitoring and professional relationship. Consent of instructor.


M. Kibble, Kikogawa An introduction to the administrative, professional technical aspects of establishing and maintaining an IV advisory service. Students will participate in workshops and conferences. Consent of instructor.

175.75. I.V. Additives and Unit Dose at VA Medical Center at Oakland. (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor.

M. Kibble, Woo, Gee Students participate in centralized I.V. admixture and unit dose systems of distribution, with involvement in the decentralization of clinical activities, including patient profile reviews. Consent of instructor.

175.84. Drug Utilization Review at VA Medical Center, 144A or 144B. Consent of instructor.

M. Kibble, Woo, Gee Students participate in establishing and maintaining a drug utilization review. Students will complete the study during a six-month rotation, and present results to the physicians and other disciplines involved. Consent of instructor.

175.88. Clerkship in Unit Dose System at Mary’s Help Hospital. (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor.

M. Kibble, Scarpace, Kabl Practice experiences in hospital and ambula
tory pharmacy unit dose system. Conferences are held on topics related to the principles of unit dose system, its implementation, and the many aspects of its management. Consent of instructor.

175.89. Clerkship in Drug Information Analysis Service at UC (1-8) F.W. Sp. Pre-Requisite: Clinical Pharmacy 130, 131 and 132. Consent of instructor.

L.J. Davis Advanced experience in drug information retrieval and analysis. Activities include participation in conferences, supervision of students, and preparing teaching assignments in Clinical Pharmacy 135. Special projects assigned. Consent of instructor.
Students participate in the services of the physician. The course is for the medical and nursing students under the guidance of a clinical pharmacologist. CL PHARM

176.41. Clerical in Hematology-Oncology at San Diego, (1-8 F. W. Sp. Prequisite: Clinical Pharmacy 148A or 149A or 149B or 149B)

D. Adler and Staff

Students participate in the activities of the Hematology-Oncology Consultation Service. Activities include assisting in monitoring patients' response to drug therapy, attendance at conferences, seminars, rounds and clinics, performance of some therapeutic and diagnostic tests, and assistance in the performance of this service. CL PHARM

176.42. Clerical in Hematology in Hyperension Clinic at San Diego, (1-8 F. W. Sp. Prequisite: Clinical Pharmacy 148A or 149A or 149B)

Welbett and Staff

This hyperension clinic is an out-patient, six-week elective requiring students to become active participants in the clinic one day per week, as well as in one student-preceptor conference per week. CL PHARM

176.80. Clerical in Intervascular Fluid Additive Therapy at San Diego, (1-8 F. W. Sp. Prequisite: Clinical Pharmacy 148A or 149A or 149B)

D. Adler and Staff

Students participate in the Intervascular Additive Therapy at University Hospital. A student must be present, the subject of which shall be chosen by the student, with the consent of the preceptor. CL PHARM

176.81. Clerical in Drug-Poison Progarm at San Diego, (1-8 F. W. Sp. Prequisite: Clinical Pharmacy 149B or 149B)

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 phone consultations for the poison center and various school groups. CL PHARM


Tung

Students attend rounds with the Infection Disease Service, evaluate antibiotics and patient's response to therapy as drug consultants to medical staff on the Infection Disease Service in determining the aspect of infectious disease and their therapy will be completed. CL PHARM

185.33. Psychopharmacology at St. Francis Hospital, (1-8 F. W. Sp. Prequisite: Clinical Pharmacy 150, 151 and 152. Consent of instructor.

M. Kimble, Doughan, Jansen

Students work in Burn Unit Sonata, monitoring patient's wound culture, antibiotic and drug therapy, drug serum levels, renal function, nutritional status, and wound management. Students are involved with patient care and intervention through rehabilitation. CL PHARM

185.29. Inpatient Medical-Surgical at University Hospital, (1-8 F. W. Sp. Prequisite: Clinical Pharmacy 148A or 149A or 149B or 149B). Consent of instructor.

Kishi, G. Dennis

Students attend rounds, interview patients and take medical histories, monitor and evaluate drug therapy, anticipate and identify drug therapy problems, provide patient with specific information to help manage problems, provide drug and health information to patients and their families. Consent of instructor. CL PHARM


M. Kimble, Banducci

Students attend rounds, make recommendations to physicians, to medical histories and follow patient progress in daily interdisciplinary team meetings for patients in the ICUs. CL PHARM

185.35. Inpatient Psychiatry at VA, (1-8 F. W. Sp. Prequisite: Clinical Pharmacy 148A or 149A or 149B or 149B). Consent of instructor.

Doog

Students participate in activities of the Family Practice Inpatient Service. Activities will continue in the Family Practice Outpatient Service. Consent of instructor. CL PHARM


M. Kimble, Robertson

Students interview patients, monitor drug therapy, provide nursing in-service education, provide drug information consultations to physicians, and conduct drug utilization and adverse drug reaction studies. Students continue to develop document activities and submit a written report. CL PHARM


M. Kimble, Eng, L. Eng

Students offer clinical pharmacy services such as hypertension screening, patient health education, and establishment and review of patient profiles at various senior care facilities in various communities, senior health and drug information centers located in local communities. CL PHARM

185.69. Skilled Nursing Facility Clerk-ship at Pharmacist Care Services, (1-8 F. W. Sp. Prequisite: Clinical Pharmacy 148 or 149A or 149B).

M. Kimble, J. K pneumonia, Karren

Students participate in activities of a skilled nursing facility pharmacy practice. Included are: monitoring and dispensing medications; preparing intravenous fluids for patients, monitoring patients, providing consultative services, performing and participating in clinical conferences, and consulting with physicians on specific therapies.
187.01. Oncology at Long Beach Memorial Hospital. (1-8) Wsp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor.

Shimomura, Diamante, Towne. General presentation to the most frequently occurring diseases of oncology and hematology. Emphasis on developing working knowledge of the role of chemotherapeutic agents. Emphasis on application of chemotherapy to oncologic patients. Methods of preparation and administration of agents, side effects and toxicity; applicable pharmacokinetics calculations. CL PHARM.

187.05. Psychiatry at UC Irvine. (1-8) Wsp. Prerequisite: Fourth year standing and consent of instructor.

Shimomura, Poon. Active involvement with patients and staff in acute care mental health facility. Students interview, interact with, and monitor patients suffering from mental illnesses. Students will cover various forms of mental disorders, treatment and role of nursing and the pharmacist in patient care. CL PHARM.

187.06. Pediatrics at UC Irvine. (1-8) Wsp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor.

Shishamin, Haran. Participation in all aspects of clinical pharmacokinetics service including information on drug interactions, and drug therapy, and drug education, under approved protocols. Involvement in analysis and evaluation of patients, level of patients with altered drug disposition. CL PHARM.

187.07. Ophthalmology at UC Irvine. (1-8) Wsp. Prerequisite: Fourth year standing and consent of instructor.

Shimomura, S. Gardner. Participation in application of basis and former guidelines, which involve dosage adjustment, clinical assessment, data collection, and monitoring. Students learn about management of patients with ophthalmic diseases through conference presentations and clinical experiences. CL PHARM.

187.08. Pediatrics at Long Beach Memorial Hospital. (1-8) Wsp. Prerequisite: Clinical Pharmacy 148A or 149. Consent of instructor.

Shimomura, Hammad, Follin. Participation in pediatrics rounds, conferences, and presentations. Students will be required to perform routine testing of pediatric 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.

187.81. IV Additives at UC Irvine. (1-8) Fsp. Prerequisite: Fourth year standing and consent of instructor.

Shimomura, Ming. Students participate in the activities of an intravenous drug service in a large university teaching hospital. Students will learn about aseptic technique, compounding procedures and storage of drugs in intravenous solution, total parenteral and enteral nutrition, pre-filled syringe preparation and selection of equipment and pageboards. CL PHARM.

187.82. Drug Information at UCLA. (1-8) Wsp. Prerequisite: Fourth year standing and consent of instructor.

Shimomura, Venable. An online experience in a drug information center serving a large multidisciplinary teaching hospital. Through a series of experience modules, in addition to day-to-day in-service activities, students will be introduced to drug information. Students will be expected to demonstrate competence in searching of drug evaluation and drug information retrieval skills. CL PHARM.

187.83. IV Additives at UCLA. (1-8) Wsp. Prerequisite: Fourth year standing and consent of instructor.

Shimomura, Israel, Casselman. Clerical training for pharmacy students to develop and use skills relating to all areas of a computerized pharmacy information system. Students will make routine case presentations regarding patients receiving different types of intravenous therapy including parenteral nutrition. CL PHARM.

187.84. Pharmaceutical Clinical Work. (8-12) Fsp. Prerequisite: Resident Standing.

Herfindal, Hest, and Staff. Residents provide clinical experiences in various forms in the wards and outpatient clinics including inpatient drug information services, preceptorship, and monitoring of medication profiles, providing drug use information and consultation, and related activities. In addition, there are administrative and teaching responsibilities. CL PHARM.

187.85. Drug Information Analysis Work. (5) Su, Fsp. Prerequisite: Resident standing and program approval.

Herfindal, McCarthy. Residents provide drug information and consultation services to a large university teaching hospital. Residents will learn about computerized information systems, and administrative responsibilities involving the Drug Information Analysis Service. CL PHARM.

187.86. Hospital Pharmacy Administrative Work. (5) Su, Fsp. Prerequisite: Resident standing and approval of program director.

Herfindal, Besse, and Staff. Residents are responsible for carrying out assignments related to the administration of a modern hospital pharmacy service and include preparation of budgets, supervision and development of staff, program planning, and various administrative assignments. CL PHARM.

187.87. Community Clinical Research. (1-5) Su, Fsp. Prerequisite: Resident standing and approval of program director.

Herfindal, Besse, and Staff. Research programs arranged with appropriate faculty members on an individual basis. CL PHARM.
87.02 Diagnosis and Treatment Planning in Orofacial Malformations. (1) W. Prerequisite: Orofacial Anatomy 187.01. Seminar and Clinic 3 hours.

88. Neurornuscular Function of the Craniofacial Region. (2) F. Prerequisite: Physiology 2 Lecture hours.

Cheliar

A clinical survey, a clinical experiment, or an animal experiment is designed and analyzed. GR DEVE.

401. Orofacial Prosthetics. (3-3) F. Pre- requisites: D.O.D.S. prerequisites or equivalent. Seminar and Lab 5-9 hours.

Cheliar and Staff

Prosthetic habilitation of the patient with orofacial malformations. Discussions include precepts and techniques for the use of obturators, speech appliances, and retention bridges. GR DEVE.

490. C. Oral Orthopedics. (1,3) F. W. Prerequisite: D.O.D.S. degree or equivalent. Seminar and Clin, 3-9 hours.

Cheliar and Staff

Diagnosis of orofacial malformations and current preventive and corrective measures. Emphasis is placed on the role of dentofacial morphology and physiology and the coordination of treatment by the various disciplines involved. GR DEVE.

497. Orofacial Prosthetics. (3-3) W. Prerequisite: D.O.D.S. degree or equivalent. Seminar, Lab, and Clinic 5-9 hours.

Cheliar and Staff

A course designed to acquaint the student with the many forms of prosthesis management; research and the required oral defects. Review of prosthesis to speech, maxillofacial deformities, oral, dental, and surgical problems. The interdisciplinary management of these problems is stressed. GR DEVE.

246. C. Speech Rehabilitation. (3,3-3,3) E.F. W. Prerequisite: D.O.D.S. degree or consent of Instructor. Seminar, Lab, and Clinic 3-9 hours.

Lawson and Staff

Normal development and speech and diagnosis of speech defects, principles and methods of remedial procedures with special emphasis on patient with orofacial malformations or defects. GR DEVE.

Dental Auxiliaries

120. Introduction to Use of Dental Auxiliaries. (1) F. Prerequisite: Dental Hygiene 160A. Lecture 1 hour for one-half of quarter.

Course in classroom instruction and demonstration in the effective use of the dental assistant. GEN DENT.


Course covers community dental health roles for dental hygienists, including program planning and financing. PERIODONT 186. Supervised Study in Dental Health Education. (1,1) F, W. Prerequisite: Dental Hygiene 150A, 160A, 160B, and 160C.

Francisco

Library research and directed reading under supervision. May be taken a number of times with the approval of the chairperson of the department. GEN DENT.

199. Laboratory Project in Dental Health Education. (1,5) F. W. Prerequisite: Dental Health Education 190A, 190B, and 190C Lecture 3 hours. Lab 0.5 hour.

Francisco

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

Dental Hygiene

150A-B. Introduction to Dental Health Education. (1,1) F. Lecture 1 hour. Lab 3 hours.

Ozaki

An introduction to theories of learning and educational methodology as applied to clinical practice of dental hygiene. Development and implementation of individualized care and special plans for dental patients are emphasized. PERIODONT 150A-B. Oral Health Education Lecture 2 hours.

Phelps-Sandall

Course covers fundamentals of classroom teaching techniques, group and written exercises, lesson planning, and test construction. PERIODONT

Phelps-Sandall

Field work experience utilizing techniques learned in Dental Health Education 150A-B.

PERIODONT

600. Community Dental Health Education. (2,2) W. Prerequisites: Dental Education 150A, 160A, and 160B Lecture 8 hours.

Ozaki

Course covers community dental health roles for dental hygienists, including program planning and financing. PERIODONT 150A-B. Oral Health Education Lecture 2 hours.

Hannaheur

Introduction to dental specialties and clinical dental procedures. Topics to be covered include oral diagnosis, operative dentistry, periodontology, endodontics, and myofunctional therapy. PERIODONT 152. Introduction to Research. (2) Lab 2 hours.

Scaffold

Research introduction for the dental hygienist. Course includes types of research, research design, and research evaluation. PERIODONT 155. Introduction to Clinical Dental Hygiene. (2,2) F. Lab 3 hours. Clinic 5 hours.

Francisco

Laboratory and clinical experiences in patient care, office and history-taking, operator patient positioning, and technique relating to managing slight to moderate periodontal disease. PERIODONT

155.01A-B. Clinical Dental Hygiene Seminar. (0.2, 0.2) F, W. Prerequisite: Dental Hygiene 155A-B. Lecture 2 hours.

Ishida and Staff

Clinical laboratory seminar to discuss clinical procedures and principles of the various aspects of periodontal disease. PERIODONT

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

Beckman

Continuation of clinical experience and practice of Clinical Dental Hygiene 155A-B with emphasis on periodontal therapy in all areas. PERIODONT 159.01 Clinical Dental Seminar. (3) Seminar 1 hour given in alternate weeks.

Ishida

Clinical seminar to discuss patient management and restorative procedures, including periodontal disease. GR DEVE.

160A. C. Office Management, Ethics, Jurisprudence and Legislation. (2,2) W. F. Lecture 2 hours.

Phelps-Sandall

Students identify their personal and professional roles as members of the health team. Topics for discussion include problem solving in general office policies and procedures, interviewing techniques, job selection, taxes, insurance, ethics, Jurisprudence, legislation, etc.

1618C. Orientation to Dentistry. (0,2,0) W. Prerequisite: Dental Hygiene 151 Lecture 2 hours.

Hannaheur

Continuation of Dental Hygiene 151. Course includes head and neck cancer management, bone transplantation and implantation, oral surgical care; diagnostic anomalies, maxillofacial rehabilitation, and removable and fixed prosthodontics. PERIODONT

162A-B. Research Design. (0.4, 0.4) F, W. Prerequisite: Dental Hygiene 152 Lecture 2 hours.

Scaffold

Continuation of Dental Hygiene 152. Design and implementation of a research project and preparation of a research project for table of contents and presentation. PERIODONT

169A-C. Advanced Clinical Dental Hygiene. (4,4,4) F, W, Prerequisite: Dental Hygiene 153A-B and 159. Concurrent enrollment in Dental Hygiene 161A-B. C. Clinic 12 hours.

Ishida

Advanced clinical dental hygiene techniques including periodontal maintenance procedures in the management of cases in moderate to advanced stages of periodontal disease. PERIODONT

169A-C. Advanced Clinical Dental Hygiene Seminar. (0,1,0,1) F, W, Prerequisite: Concurrent enrollment in Dental Hygiene 153A-B.

Ishida

Lecture and seminar in clinical policies and practices in periodontal treatment planning, periodontal maintenance, clinical photography and related topics. Students attend meetings during winter and spring quarters. PERIODONT

169A-C. Advanced Clinical Functions. (2,2,2,2) F. Prerequisite: Lecture Variable hours. 2,3 hours.

Goed

Course will encompass current regulations on the utilization of dental auxiliaries as defined by the California State Board of Dental Examiners and the California Dental Hygienists Association.

189. Special Study. (0,0,4) W, F. Prerequisite: Second-year standing in dental hygiene program, oral health care in community dental hygiene program.

Francisco

Students select an area of interest for independent study or research. These may include clinical, classroom, institutional, or other areas. PERIODONT

199. DEVE. In Mobile Dental Clinics. (0.3) S. Prerequisites: Clinical experience in mobile dental clinics. PERIODONT

R. Miller

R. Kuhn

Lectures and assigned readings in the re- endodontic endodontics of the male and female aspects of the discipline, and the regulation of histomorphological, histological, and gross abnormalities, emphasized with special emphasis on

189.01 Endodontics Clinical Practice. (9-9-9) F.W. Sp. Prerequisite: Approval of the clinician. Clinic experience in the endodontics of 109. RECTOR DENT

189.02. Advanced Clinical Endodontics. (9-9-9) Sp. Clinic variable. Advanced instruction in the field of clinical endodontics. RECTOR DENT

R. Petkas, Ernster

Basic endodontic principles and methods for treatment of endodontal problems and determinants of disease in the population. Epidemiology of endod- entic disease, the design, execution, and analysis of medical literature, and diagnostic and treatment of patient risk factors and complications. RECTOR DENT


150.01. Medicine in Developing Coun-tries. (2) W. Sp. Lectures 2 hours. Topics include: Epidemiology and International Health 100 or consent of instructor.

R. Goldsmith

Two-week block elective on the recogni- tion and treatment of diseases of tropical and developing countries. The course is designed to prepare students for clerkships abroad. Preparation for clerkships, seminars, films and kodachrome showings. Laboratory demonstrations displayed throughout week. EPID INTL HETH

101. Fundamental Epidemiology. (3) Sp. Lecture 2 hours. Seminar 1 hour. EPID HETH

R. Petkas, Ernster

Survey of key issues in epidemiology. Basic principles and methods for the design and evaluation of health programs, including measurement of disease and other indicators of health and the disability of populations. RECTOR DENT

160.01. Cancer Epidemiology for the Clinician. (12) W. Prerequisite: Epidemiology and Clinical Laboratory Research 1510 and consent of instructor. Lecture 1 hour. EPID INTL HETH

R. Seifert, Prerequisite: Consent of instructor

Research under faculty supervision in the United States or abroad. The student may be in public health, clinical or preventive medi- cine, or basic medical sciences. EPID INTL HETH

160.01. Cancer Epidemiology for the Clinician. (12) W. Prerequisite: Epidemiology and Clinical Laboratory Research 1510 and consent of instructor. Lecture 1 hour. EPID INTL HETH

R. Seifert, Prerequisite: Consent of instructor

A laboratory research problem of epidemiology under the advice of a public health staff. The student is required to provide a written report of the Laboratory Research Unit at PPE. The Unit's major research areas are the pharmacology, immunology, and chemical programs. A minimum of 34 hours. EPID INTL HETH

R. Goldsmith, Frinton and Staff

Examination and treatment of patients in the clinical setting. Students will also be supervised. Students also assist with consultations on hospitalized patients. Most of the clinical problems will be those in which disease processes have diseases associated with infection by viruses. EPID INTL HETH

180.03. Introductory Statistical Treat- ment of Clinical and Laboratory Prob- lems. (3) F. W. Sp. Lecture 2 hours. Lab optional 0.5 hours.

R. Zippin

Basic concepts and techniques in the planning and analysis of clinical and laboratory studies. Introduction to statistical techniques to summarize qualitative and quantitative data and draw inferences, taking into account the design and execution of the investigation. EPID INTL HETH

170.01. Clinical Laboratory Project in Leprosy. (15) Sp. F.W. Sp. Prerequisite: Consent of instructor

R. Seifert

A laboratory research problem of epidemiology under the advice of a public health staff. The student is required to provide a written report of the Laboratory Research Unit at PPE. The Unit's major research areas are the pharmacology, immunology, and chemical programs. A minimum of 34 hours. EPID INTL HETH

R. Goldsmith, Frinton and Staff

Examination and treatment of patients in the clinical setting. Students will also be supervised. Students also assist with consultations on hospitalized patients. Most of the clinical problems will be those in which disease processes have diseases associated with infection by viruses. EPID INTL HETH

180.03. Introductory Statistical Treat-ment of Clinical and Laboratory Prob- lems. (3) F. W. Sp. Lecture 2 hours. Lab optional 0.5 hours.

R. Zippin

Basic concepts and techniques in the planning and analysis of clinical and laboratory studies. Introduction to statistical techniques to summarize qualitative and quantitative data and draw inferences, taking into account the design and execution of the investigation. EPID INTL HETH

170.01. Clinical Laboratory Project in Leprosy. (15) Sp. F.W. Sp. Prerequisite: Consent of instructor

R. Seifert

A laboratory research problem of epidemiology under the advice of a public health staff. The student is required to provide a written report of the Laboratory Research Unit at PPE. The Unit's major research areas are the pharmacology, immunology, and chemical programs. A minimum of 34 hours. EPID INTL HETH

R. Goldsmith, Frinton and Staff

Examination and treatment of patients in the clinical setting. Students will also be supervised. Students also assist with consultations on hospitalized patients. Most of the clinical problems will be those in which disease processes have diseases associated with infection by viruses. EPID INTL HETH

180.03. Introductory Statistical Treat-ment of Clinical and Laboratory Prob- lems. (3) F. W. Sp. Lecture 2 hours. Lab optional 0.5 hours.

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Basic concepts and techniques in the planning and analysis of clinical and laboratory studies. Introduction to statistical techniques to summarize qualitative and quantitative data and draw inferences, taking into account the design and execution of the investigation. EPID INTL HETH

170.01. Clinical Laboratory Project in Leprosy. (15) Sp. F.W. Sp. Prerequisite: Consent of instructor

R. Seifert

A laboratory research problem of epidemiology under the advice of a public health staff. The student is required to provide a written report of the Laboratory Research Unit at PPE. The Unit's major research areas are the pharmacology, immunology, and chemical programs. A minimum of 34 hours. EPID INTL HETH

R. Goldsmith, Frinton and Staff

Examination and treatment of patients in the clinical setting. Students will also be supervised. Students also assist with consultations on hospitalized patients. Most of the clinical problems will be those in which disease processes have diseases associated with infection by viruses. EPID INTL HETH

180.03. Introductory Statistical Treat-ment of Clinical and Laboratory Prob- lems. (3) F. W. Sp. Lecture 2 hours. Lab optional 0.5 hours.

R. Zippin

Basic concepts and techniques in the planning and analysis of clinical and laboratory studies. Introduction to statistical techniques to summarize qualitative and quantitative data and draw inferences, taking into account the design and execution of the investigation. EPID INTL HETH

170.01. Clinical Laboratory Project in Leprosy. (15) Sp. F.W. Sp. Prerequisite: Consent of instructor

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R. Seifert

A laboratory research problem of epidemiology under the advice of a public health staff. The student is required to provide a written report of the Laboratory Research Unit at PPE. The Unit's major research areas are the pharmacology, immunology, and chemical programs. A minimum of 34 hours. EPID INTL HETH

R. Goldsmith, Frinton and Staff

Examination and treatment of patients in the clinical setting. Students will also be supervised. Students also assist with consultations on hospitalized patients. Most of the clinical problems will be those in which disease processes have diseases associated with infection by viruses. EPID INTL HETH

180.03. Introductory Statistical Treat-ment of Clinical and Laboratory Prob- lems. (3) F. W. Sp. Lecture 2 hours. Lab optional 0.5 hours.
199. Laboratory Project in Epidemiology and International Health. (1-3) F, W, Sp. Prerequisite: Consent of instructor.

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

190. Exfoliative Cytology. 0.5-1.5 C.C. (4-14-14) Su, F, W, Sp.

Exfoliative cytology includes normal, malignant, and abnormal nonmalignant cells. Instruction covers methods of specimen collection, preparation, staining, and microscopic examination of specimens; development of speed and accuracy in microscopic examination; and correlation of cellular and tissue pathology. PATHOLOGY

Family and Community Medicine

110. Required Clerkship in Family and Community Medicine. (15) per week Su., F, W, Sp. Prerequisite: Completion of 24 weeks of clinical clerkship including Pediatrics 110 and either Medicine 110 or Surgery 110 and 111.

R. Goldsmith

Integrated ambulatory clerks care for diverse patient settings both on and off campus, including Adult Comprehensive Care, Home Care Service, Mount Zion Medical Center, and Family Medicine centers at residency programs. Additional in primary care seminars in radiology, psychiatry and dermatology.

140. Clinical and Community Health Programs. (15) per week Su, F, W, Sp. Prerequisite: Determined by students, preferences and electives for which they are applying.

Barbaccia and Staff

Effective exercise for two or more weeks in various settings and projects. Students may participate in unique health care programs such as Indian Health Service, Dharma, Summer Camp, SPGH Holistic Health, and Asian Health Services. FAM CM MED.

140.04. Preceptorship in Family Practice. (15) per week Su, F, W, Sp. Prerequisite: Consent of instructor.

H. Davis

Students work with a family practitioner, at inpatient and outpatient settings. Experience in the office, observing the practice and performing duties as training practices. Experience will teach common health problems and primary care in a community setting. Experience is required. FAM CM MED.

140.55A-B.C.D. Social Medicine Pathway Selection. (15) per week Su, F, W, Sp. Prerequisite: Consent of instructor. Course may be taken at any time within the requirements of the full-time fulfills pathways requirements, or one quarter on a selective basis.

Barbaccia

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

140.06. Community Rehabilitation Medicine. (15) per week Su, F, W, Sp. Prerequisite: Consent of instructor.

L. Crain

Students will be assigned to a variety of community rehabilitation facilities, including Center for the Disabled, Rehabilitation Center for the Blind, and other community rehabilitation facilities for two to four weeks. Emphasis will be on the selection of patients who are suitable for rehabilitation and the interpersonal approach to rehabilitation. FAM CM MED.

140.07. Advanced Preceptorship in Family Medicine. (15) per week Su, F, W, Sp. Prerequisite: Advanced medical school standing and consent of instructor.

H. Davis

Students may select from several sites such as both inpatient and outpatient settings. Students participate in the care of patients and recreation and consultation practice, local hospital and emergency rooms. FAM CM MED.

140.09. Clerkship in Rehabilitation Medicine: The Team Approach. (15) per week Su, F, W, Sp. Prerequisite: Consent of instructor.

L. Crain

Students function as members of a treatment team caring for patients severely disabled by acute spinal cord injuries, acute head injuries, neurologic and orthopedic disabilities at the Santa Clara Valley Medical Acute Rehabilitation Unit. Stipends are available. FAM CM MED.

140.24. Primary Care Clerkship at Stanford University. (15) per week Su, F, W, Sp. Prerequisite: Consent of instructor.

Comelli

Comprehensive inpatient and outpatient experience in family medicine. Students assume sub-intern clinical responsibility for patient care. Program is individually arranged, and may involve rural and urban settings. Students gain familiarity with utilization of community health resources in family practice. FAM CM MED.

140.25. Emergency Medicine Clerkship at Stanford University. (15) per week Su, F, W, Sp. Prerequisite: Consent of instructor.

L. Crain

Students receive practical training in emergency medicine in emergency pre-hospital care and in the care of the critically ill and injured patient in the emergency room. Daily emergency medicine case conferences and weekly clinical rounds augment clinical experience. FAM CM MED.

140.22. Clerkship in General Medicine at Stanford University. (15) per week Su, F, W, Sp. Prerequisite: Family and Community Medicine 110 and 111. M. Joseph

General medical clerkship in a busy primary care group. Residents are introduced to patients with varied medical and surgical problems. Clinical experience focuses on patient examination, formulation of a diagnosis, and follow-up plans. FAM CM MED.


Potkin, Ellisson

Course offers experience in primary practice and provides opportunity to participate in health care delivery in rural and/or underserved areas, strengths background in internal medicine, pediatrics, obstetrics and gynecology, and the behavioral sciences. Academic program. FAM CM MED.

140.31. Family Practice Clerkship at Fort Ord. (15) per week Su., F, W, Sp. Prerequisite: Third or fourth year standing.

Kogler

Klerkship at the Department of Family Practice at Salinas Bay State Hospital. Students will treat patients in the context of family and community. Students will have the opportunity to participate in career goal evaluation. FAM CM MED.

140.40. Primary Experience Advanced Inpa- tient Clerkship. (15) per week Su, F, W, Sp. Prerequisite: Senior medicine clerkship. R. Goldsmith

The Family Practice Inpatient Service provides inpatient care for hospitalized adult patients with diverse medical problems. Students function as members of
Barbarca and Staff

Field work in exploration or utilization areas in social medicine or community health, Field work for public health, Public Health, Dentistry and Social Welfare participate when needed. FAM CM MED


Barbarca

Assignments to community health agencies where students have patient contact and choose an aspect of the agency's program for analysis. Faculty from Schools of Medicine, Pharmacy, Nursing and Dentistry, where needed. FAM CM MED

167. Principles in the Community. (1-1/2) E, W. Sp. Pre-Requisite: Consent of instructor Field work 4-12 hours.

H. Davis

Assignment with a family physician in a private office or community clinic for a minimum of four hours a week. Pre-clinical students observe their preceptors in practice in order to gain an introduction to primary care medicine and family care. FAM CM MED

160.05. Mission Neighborhood Elective. (1-1/2) E, W. Sp. Pre-Requisite: Consent of Instructor Field work 3-6 hours.

D. Sanchez, Pascoe

Students participate in a program serving the needs of the Latino populations at all age levels, from parenting, prenatal, the elderly. Health care, free breakfast and lunch programs are conducted in the project. St. Vincent Hospital and Labor. 160.06. Mission School Elective. (3) E, W, Sp. Pre-Requisite: Consent of instructor Lecture 1 hour Lab 6 hours.

D. Sanchez, Pascoe

Barbarca

This project is a continuous outreach program. Students work primarily with speaking children, parents, teachers and clinicians in Mission District schools. Students will participate in teaching, consultation, and delivery of health care. FAM CM MED


Ransom, R. Gerber, Schroeder, H. Davis

Introductory principles of family medicine are related to class and discussed led by family physicians and family physiology. Pre-Requisites: Participation in classes on health care and community clinics. Each student will interview a family and present a case report. FAM CM MED

160.08. Introduction to Family Therapy. (1) W Seminar 1 hour.

Ransom, Schroeder, H. Davis

Course provides an introduction for students desiring to take more advanced training in family therapy. Students will not see families themselves, but will participate in video-taped role playing exercises aimed at practicing basic techniques. FAM CM MED


Thoren

Course will explore what in health care needs change, how change is being made, and what specific strategies and tactics have been employed. Format includes panel discussion, lectures and field trips. FAM CM MED

170.03. Developmental Disabilities: Resource Overview. (2-5) F, W. Sp. Pre-Requisites: Consent of instructor Field work 4-8 hours.

L. Crain

Reading assignments correlated with the observation of the spectrum of community and institutional services, including diagnostic, therapeutic, and counseling services for children and adults experiencing developmental disabilities. FAM CM MED

170.05. Rehabilitation Medicine. (1-5) E, W. Pre-Requisite: Consent of Instructor Field work 4-8 hours.

L. Crain

Through individualized arrangements, course provides an introduction to the broad spectrum of rehabilitation services for children and/or adults with chronic or disabling diseases. FAM CM MED


Bozler

The nature of information processing concepts of problem solving with the digital computer representation of information within a computer system, introduction to programming and systematic program design. Examples: the use of potential applications of computer systems to health care. Topics included are computer language programming. FAM CM MED

172. Legal Medicine. (2) E, F, W Lecture 2 hours.

Tennenhousen

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


Barbarca

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


Guttengart

Exploration of the theoretical premises of Western Healsanship. Different disciplines and other cultural attitudes, trend discussed primarily in holistic, abstract approaches of patient-physician relationship and operational concepts such as optimal versus inadequate for superficial examination. FAM CM MED

175.02. Theoretical Problems of Clinical Medicine. (1-5) F, W. Pre-Requisite: Consent of Instructor Seminar 1 hour.

Dustan

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


Barbarca

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

183. Perspectives on Asian American Community Health Care. (2) E, W Lecture 1 hour Seminar 1 hour.

Barbarca

Examine various views on health care in various Asian American communities, including the socioeconomic status of the community and overall health status. Course includes guest lectures, films and social activities. FAM CM MED

185. Health Care Systems. (3) E, W Lecture 1 hour Seminar 2 hours.

Barbarca

Lecture-seminar format is used to cover most aspects of the organization and function of the health care system including, but not limited to, including manpower, hospitals, ambulatory care, community health centers, economics, government programs and health services research. FAM CM MED

190. Family Counseling and Psychotherapy. (3) E, W. Pre-Requisite: Consent of Instructor Field work 4-8 hours.

Ransom, Schroeder, H. Davis

Students observe family therapy sessions on a regular basis. Role of family dynamics and therapeutic strategies will be emphasized. Appropriate referrals are discussed and assigned in seminar. FAM CM MED


Barbarca 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

Fixed Prosthodontics


Tueller

Clinical instruction to be taken only with third and fourth-year lecture courses. RESTORANT.


Barbarca

Course presents an overview of health and health care in various Asian American communities, including the socioeconomic status of the community and overall health status. Course includes guest lectures, films and social activities. FAM CM MED

185. Health Care Systems. (3) E, W Lecture 1 hour Seminar 2 hours.

Barbarca

Lecture-seminar format is used to cover most aspects of the organization and function of the health care system including, but not limited to, including manpower, hospitals, ambulatory care, community health centers, economics, government programs and health services research. FAM CM MED

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Ransom, Schroeder, H. Davis

Students observe family therapy sessions on a regular basis. Role of family dynamics and therapeutic strategies will be emphasized. Appropriate referrals are discussed and assigned in seminar. FAM CM MED


Barbarca 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
Students will accrue points by performing clinical fixed prosthodontics procedures. The required number of points for completion of the course is 250. Points are allocated according to the difficulty and magnitude of the procedure, and also the quality of treatment.

RESTOR DENT

170. Seminar in Fixed Prosthodontics. (2) F. W. Sp. Prerequisite: Students in Fixed Prosthodontics Certificate Program must register for this course each long session.

Eissmann

New concepts and theories are discussed and related to research and clinical practice. Students are encouraged to develop new concepts in the application of basic sciences and research to fixed prosthodontics. RESTOR DENT

175.0A-BC. Clinical Procedures in Fixed Prosthodontics. (2) F, W. Sp. Prerequisite: Admission to postdoctoral standing is based on consent of instructor. Lecture 1 hour; Clinic 6 hours.

W. N. Noble

Instruction and practice in the diagnosis, treatment planning, and treatment of clinical patients. RESTOR DENT

171.02. Clinical Procedures in Fixed Prosthodontics. (2) S. W. Prerequisite: Fixed prosthodontics and oral rehabilitation. (2) W. N. Noble

Clinical procedures in fixed prosthodontics. Course provides a continuation of clinical experience received in Fixed Prosthodontics 171. RESTOR DENT

175.0A-BC. Advanced Clinical Procedures in Fixed Prosthodontics. (3.5-5) S. W. Prerequisite: Completion of fall and summer session of Fixed Prosthodontics Certificate Program. Lecture 1 hour. Clinic 6 hours.

Eissmann

Clinical procedures in fixed prosthodontics. Course provides a continuation of experience received in Fixed Prosthodontics 175.0A-BC. RESTOR DENT


Lorenc

Original investigation in the field of fixed prosthodontics. RESTOR DENT


Lorenc

The fields of fixed prosthodontics and its interrelation to other dental specialties will be explored by means of case presentations to postgraduate students with a broad background in oral rehabilitation techniques.

RESTOR DENT


Lum

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


Mell

Clinical experience in fixed prosthodontics. Course provides a continuation of clinical experience received in Fixed Prosthodontics 171. RESTOR DENT


Eissmann

Clinical experience at the level of Fixed Prosthodontics 149. RESTOR DENT

86

Fixed Prosthodontics/Forensic Pathology & Medicine/General Dentistry

General Dentistry/Genetics/Health Sciences Education

87

180.02. Advanced Restorative Elective. (196) F. W. Seminar 1 hour.

Eissmann

Seminar in clinical restorative procedures. Instructors include specialists in practice cases by question or full arch approach. Students are selected to participate by the course director: RESTOR DENT

199. Laboratory Research Project in Fixed Prosthodontics. (2) F, W. W. Sp. Prerequisite: Consent of instructor.

Lorenc

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

RESTOR DENT

Forensic Pathology and Medicine

170.01. Forensic Pathology and Medicine. (1) Sp. Seminar 1 hour.

Smucker

Course covers basic legal principles; torts and contracts; medical records and documents; medical licensing and certification; forensic pathology; the expert witness; medical practice and professional liability. PATHOL


L. Fine

Introduction to the basic concepts, theories, and findings of the social sciences. Emphasis is on the application of these concepts and modes of reasoning to pressing social problems and the delivery of health services.

199. General Dentistry. (1) F. W. Sp. Prerequisite: Consent of instructor. Lecture 1 hour.

Kernberg

A combination of lecture and laboratory sessions. Course will present an in-depth analysis of genetic mechanisms in selected areas. RESTOR DENT


Wycoff

Basic principles of biostatistics. Introduction to the concept of experimental biostatistics; fundamental principles of sampling techniques; selection of data and variability. The student will plan, develop, and write a research project.

199.01. Community Dentistry Rotation. (1) F. W. Sp. Prerequisite: Consent of department head. Approval of the chairperson of the division. Clinic variable.

199.01. Community Dentistry Rotation. (1) F. W. Sp. Prerequisite: Consent of department head. Approval of the chairperson of the division. Clinic variable.

Wycoff

Clinical experience at the level of Fixed Prosthodontics 149. RESTOR DENT

199.02. Advanced Restoration Elective. (199) W. Lecture 1 hour.

Eissmann

Advanced clinical restorative elective. Lecture describes the restorative practice. Topics include those such as office layout, laboratory relations, treatment limitations, scheduling, financial arrangements, and treatment failures. RESTOR DENT

199.03. Fixed Prosthodontic Clinical Practice. (9-25) F, W. Sp. Prerequisite: Fixed prosthodontics; consent of chairperson of the division.

Tyuller

Clinical experience at the level of Fixed Prosthodontics 149. RESTOR DENT

The development and form of deciduous and permanent dentition and the etiologic factors of dental caries. Study of individual tooth and arch form to interrelate them as well as endodontic management. RESTOR DENT

188.01. Community Health Methods. (9-0-9). Sp. Prerequisite: Consent of instructor. Clinic. Enrollment limited.

188.01. Community Health Methods. (9-0-9). Sp. Prerequisite: Consent of instructor. Clinic. Enrollment limited.

Scalier, Ino

Students work at SFPGH and Lutheran Extension Center providing comprehensive community health services in a variety of settings. University credit will be given. Minimum: Monday through Friday, 8:00 am-5:00 pm. Full-time day auxiliary provided. RESTOR DENT


G. Wall

Students provide comprehensive dental care to patients assigned to the VA for the prevention, diagnosis, and control of oral disease. RESTOR DENT

170.01. Forensic Pathology and Medicine. (1) Sp. Seminar 1 hour.

Smucker

Course covers basic legal principles; torts and contracts; medical records and documents; medical licensing and certification; forensic pathology; the expert witness; medical practice and professional liability. PATHOL


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Introduction to the basic concepts, theories, and findings of the social sciences. Emphasis is on the application of these concepts and modes of reasoning to pressing social problems and the delivery of health services.

199. General Dentistry. (1) F. W. Sp. Prerequisite: Consent of instructor. Lecture 1 hour.

Kernberg

A combination of lecture and laboratory sessions. Course will present an in-depth analysis of genetic mechanisms in selected areas. RESTOR DENT


Wycoff

Basic principles of biostatistics. Introduction to the concept of experimental biostatistics; fundamental principles of sampling techniques; selection of data and variability. The student will plan, develop, and write a research project.

199.01. Community Dentistry Rotation. (1) F. W. Sp. Prerequisite: Consent of department head. Approval of the chairperson of the division. Clinic variable.

Wycoff, Sinclair, M. Garcia

Graduate seminar integrating clinical experience and academic course work of stu-
140.03. Hematology. Clerkships. (1/1) per week. F, W, Sp. Prerequisite: completion of hematology or equivalent. Recommendation from one faculty member required.

Shobert and Staff

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

140.04. Clinical Immunohematology in Transfusion and Transplantation. (1/1) per week. F, W, Sp. Prerequisite: Completion of two core clerkships.

Vyas

A two-week clerkship in transfusion service. Basic hematology utilizing principles of physiology and immunohematology in the evaluation of need, risks and benefits. Preparation for transfusion methods and loss and clinical management of various hemolytic disorders. LAB MED. 140.05. Hospital Hematology. (1/1) per week. F, W, Sp. Prerequisite: Medicine 110 and consent of instructor.

M. Fisher, Sobenes

Clerkship in laboratory medicine includes principles of testing and problems of collection and performance, interpretation of data to the basis of therapeutic implications in the following therapy. Topics include clinical chemistry, radiometric pathology, hematology, clinical microbiology, serology, immunology, histopathology, and others. LAB MED. 150.01. Medical Laboratory (1/1) per week. F, W, Sp. Prerequisite: Medicine 110 and consent of instructor.

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

160.01. Diagnostic Use of Radiouclides. (3/1) per week. F, W, Sp. Prerequisite: completion of medical school. Lecture 1 hour. Clinic 4 hours. LAB MED.

Basic laboratory course in nuclear medicine. Clinical participation in the diagnosis of disease and assessing radiouclides in the patient's clinical and in the wards. LAB MED.

170.01. Clinical Pathology. (2) Su. F, W, Sp. Prerequisite: Laboratory sessions and seminars on aspects of clinical chemistry, histology, microbiology, hematology, blood banking, and other disciplines are held in the clinical laboratories at UC and the University of California, San Francisco.

R. Anderson

Students work on special projects in clinical laboratory microbiology defined in conjunction with the instructor. LAB MED.


Polycev

Residents review and discuss the data from selected clinical cases with special reference to technical aspects of laboratory methods and interpretation of results. LAB MED.

80.01. Microcomputer Programming in the Clinical Laboratory. (1) F. Prerequisite: Consent of instructor. Clinical laboratory experience recommended, computer experience not required. Preference given to residents in Laboratory Medicine. Clinical laboratory and computer scientists in Clinical Laboratory Science. Lecture 2 hours. Lab variable 2-4 hours. Enrollment limited.

R. Anderson

Instruction in elementary BASIC programming and computer concepts. Examples and problems discussed. Introduction to the use of a microcomputer in the laboratory and medical literature. LAB MED.

80.02. Microcomputer Programming in the Clinical Laboratory II. (2) W, F. Prerequisite: Consent of instructor. Preference given to residents in Laboratory Medicine. Clinical laboratory and medical scientists in Clinical Laboratory Science. Lecture 2 hours. Lab variable 2-4 hours. Enrollment limited.

R. Anderson

Students work on special projects in clinical laboratory microbiology defined in conjunction with the instructor. LAB MED.


Polycev

Principles of laboratory tests in clinical chemistry, microbiology, and blood banking. Introduction to microcomputer. LAB MED.

80.01 and 80.02 or consent of instructor.

R. Anderson

Instructor in assembly language program- ming and computer concepts. Examples and problems discussed. Introduction to the use of a microcomputer in the laboratory and medical literature. LAB MED.

480. Special Problems in Clinical Laboratory Microcomputing. (3-5) Su, F, W, Sp. Prerequisite: Laboratory Medicine 480.01 and 480.02 or consent of instructor. Lecture 1-3 hours. Enrollment limited.

R. Anderson

Students work on special projects in clinical laboratory microbiology defined in conjunction with the instructor. LAB MED.


Polycev

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

480.01. Microcomputer Programming in the Clinical Laboratory I. (3) F. Prerequisite: Consent of instructor. Clinical laboratory experience recommended, computer experience not required. Preference given to residents in Laboratory Medicine. Clinical laboratory and computer scientists. Lecture 2 hours. Lab variable 2-4 hours. Enrollment limited.

R.Anderson

Polycev

Review of current laboratory procedures and problems in hematology, microbiology, immunology, blood banking, and chemistry and applications of computers to clinical laboratory science. Occasional formal reports are required. LAB MED.


Polycev

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

180.01. Microcomputer Programming in the Clinical Laboratory II. (5) W. Prerequisite: Consent of instructor. Preference given to residents in Laboratory Medicine. Clinical laboratory and medical scientists in Clinical Laboratory Science. Lecture 2 hours. Lab variable 2-4 hours. Enrollment limited.

R. Anderson

Instructor in assembly language programming and computer concepts. Examples and problems discussed. Introduction to the use of a microcomputer in the laboratory and medical literature. LAB MED.

207. Specialty Surgical Illustration: Pantographic and Orthophotographic. (3) 1-1 lab 1 hour. LAB MED.

Wakelin, Beidorf

Review of anatomical and observation of dis- cern and eye and through ophthalmoscope, orthopho- toscope and slit lamp. Orthophotographic illus- tration, endoscopic illustration and surgical illustra- tions of a retinal field, slit lamp view and a description of photostudio and their applications. LAB MED.

210. Intensive Short Course in Presenta- tions Styles and Instructional Strategies. (2) F, W, Sp. Prerequisite: Consent of instructor. Lecture and Lab 40 hours given as one week of workshops.

Wakelin, Beidorf

Introduction for prospective teaching assistants to instructional techniques and strategies, learning-teaching, organizing study plans, presentation of information, and the psychology of learning and teaching. Learning of theories and the development of audiovisual and audiotape support materials. MED IRLS.


Wakelin, Beidorf

Ongoing seminar throughout the term. Analyses of production in all media. Readings and discussion of instructional design, critical response to the media, followed by modification, programmed instruction, system development, and the evaluation of methods of evaluation. Participation by guest lecturers. MED IRLS.


Wakelin

Survey of media production and formats. Still photography, multiple media and mass media production. Pre- production in film, television and slide-tape production. Evolution of techniques in storyboard, scripting, editing and animation. MED IRLS.
The design of medical information systems is a complex and costly endeavor. This course emphasizes the design of information systems, particularly with respect to cost, performance, and accountability. Laboratory sessions involve hands-on experience with development and interactive use of information systems. Students receive instruction and receive feedback from their instructors. The course is designed to provide the background needed to succeed in the field of medical informatics.


Students are part of the ward team with the attending physician and residents. The emphasis is on history-taking, physical diagnosis, selected admissions, and presenting cases. Students present cases to the medical staff in the teaching rounds. Students are evaluated on their participation and their contributions to the ward rounds. The course is designed to provide the background needed to succeed in the field of medical informatics.


Students are assigned patients on the staff and work as a team with attending and resident staff. They present patients on ward rounds, assist with procedures, and participate in daily team conferences. Students are evaluated on their participation and their contributions to the ward rounds. The course is designed to provide the background needed to succeed in the field of medical informatics.


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Students share consultations and on-call with full-time faculty. Lectures, case studies, and small groups are used to educate students. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.22C. Pathophysiology of Disease—Cardiovascular. (6.0) Prerequisite: Medicine 10. Students learn basic cardiovascular physiology and the pathogenesis of cardiovascular disease. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.22B. Pathophysiology of Disease—Dermatologic-Infectious Disease. (6.0) Prerequisite: Medicine 10. Students learn basic infectious disease and dermatologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.22A. Pathophysiology of Disease—Endocrine-Metabolism. (6.0) Prerequisite: Medicine 10. Students learn basic endocrine and metabolic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.21C. Pathophysiology of Disease—Gastroenterology. (6.0) Prerequisite: Medicine 10. Students learn basic gastrointestinal disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.21B. Pathophysiology of Disease—Genitourinary. (6.0) Prerequisite: Medicine 10. Students learn basic genitourinary disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.21A. Pathophysiology of Disease—Immunology. (6.0) Prerequisite: Medicine 10. Students learn basic immunology and disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.20. Infection Disease Clerkship at UC. (15.0) Prerequisite: UC biology. Students work up and present patients under the direct supervision of a physician in various specialty clinics. Students learn about infectious disease resident. Patients seen are presenting with a wide variety of infections and diseases. Students present patients during ward rounds and present infectious diseases clinic one time per week. Reading list: Medicine 10.00.

140.20. Pathophysiology of Disease—Neurology. (6.0) Prerequisite: Medicine 10. Students learn basic neurologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.19. Vascular Surgery. (6.0) Prerequisite: Medicine 10. Students learn basic vascular disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.19. Pediatrics. (6.0) Prerequisite: Medicine 10. Students learn basic pediatric disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.18. Obstetrics. (6.0) Prerequisite: Medicine 10. Students learn basic obstetric disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.18. Ophthalmology. (6.0) Prerequisite: Medicine 10. Students learn basic ophthalmic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.17. Obstetrics. (6.0) Prerequisite: Medicine 10. Students learn basic obstetric disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.17. Ophthalmology. (6.0) Prerequisite: Medicine 10. Students learn basic ophthalmic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.16. Pathophysiology of Disease—Neurology. (6.0) Prerequisite: Medicine 10. Students learn basic neurologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.16. Pathophysiology of Disease—Oncology. (6.0) Prerequisite: Medicine 10. Students learn basic oncologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.15. Pathophysiology of Disease—Pediatrics. (6.0) Prerequisite: Medicine 10. Students learn basic pediatric disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.14. Pathophysiology of Disease—Pathology. (6.0) Prerequisite: Medicine 10. Students learn basic pathologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.13. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.12. Pathophysiology of Disease—Physiology. (6.0) Prerequisite: Medicine 10. Students learn basic physiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.11. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.10. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.09. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.08. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.07. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.06. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.05. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.04. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.03. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.02. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.

140.01. Pathophysiology of Disease—Pathophysiology. (6.0) Prerequisite: Medicine 10. Students learn basic pathophysiologic disease processes. Lectures, discussions, and readings are used. Students are encouraged to develop ability to evaluate literature critically. Reading list: Medicine 10.00.
Students may elect clinical clerkship in internal medicine after completing coursework in medical physiology, anatomy, and working up patients, relating laboratory data to clinical situations, making work-up, and writing case reports. 

140.36. Clerkship in Renal Disease. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and consent of instructor.

C. Becker
Students evaluate patients in hospital and clinic settings. Students participate in patient oriented research projects, offering opportunities for clinical, diagnostic and research experiences. Each student will participate in inpatient and outpatient care, including patient care of cardiovascular and pulmonary diseases. 


W. Gold
Examine patients in chest Clinic on the wards and in ICU and present them at ward rounds, pulmonary function and radiology conferences. Each student will participate in inpatient and outpatient care of cardiopulmonary and neoplastic diseases. 

140.41. Clinical and Physiological Aspects of Pulmonary Disease at B. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Lifshay
Students examine patients in the outpatient office, on wards, ICU, and present them at ward rounds, pulmonary function and radiology conferences. Each student will participate in inpatient and outpatient care of cardiopulmonary diseases. 

140.37. Coronary Care Unit at PMC. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110. Medicine 140.45 or equivalent four-week cardiac care clerkship recommended. 

Pasternak
Students will work up, formulate treatment plans, and follow patients in the Coronary Care Unit. Daily rounds will be made with resident and attending staff. Opportunity to participate in other teaching rounds, confer with attending physicians, and ECG reading as time permits. 

140.38. Office Practice of Clinical Medicine at A. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 and consent of instructor.

Fessel
Primary office practice of clinical medicine utilizing all common and frequent problems encountered in general office practice. Opportunities exist for regular staff rounds, and formal teaching rounds in rheumatology at K. Medicine. 


Seaman
A four-to-twelve week introduction to rheumatology and immunology offering both clinical and research experiences. Each student will participate in inpatient and outpatient care of cardiopulmonary and neoplastic diseases. 

140.42. Clinical Pharmacology and Toxicology at A. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

140.43. Basic Rheumatology and Immunology at A. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Aron
Clinical clerk participate in diagnosis and treatment of patients with gastroenterological problems, diseases of the liver and pancreas, cancer and infectious diseases. Students will participate in daily rounds and conferences. 

140.44. Clinical and Physiological Aspects of Pulmonary Disease at D. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Residency Training Program

140.45. Endocrine-Metabolism Clerkship at A. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

L. Drew, Mintz
Clinical Infectious Disease Service and subspecialty fellows. Students will provide ongoing internal integration of clinical and laboratory medicine. Emphasis will be on teaching techniques of diagnostic microbiology such as bacteriology, virology, parasitology, mycology, and 

140.50. Pulmonary Service at A. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of instructor.

Staufer
Students on Chest Service will be exposed to the many responsibilities of the intensive care unit in caring for critically ill patients. Students will observe all activities of the Director of the Respiratory Care Service. 

140.51. Clinical Transplantation. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110. 

Amend, Vincent
Rotations through active renal transplant service, including clinical immunology, clinical renal physiopathology, renal diagnosis such as x-ray, biopsy, scan. The student's experience will include analysis of physical examination results which will encompass other internal medical service. 

140.60. Rheumatology at VAMC. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110. 

Berken
Experience with rheumatic diseases and chronic musculoskeletal pain including arthritis and collagen-vascular diseases as seen in clinics. Develops understanding of diagnosis, taking physical examination, selection and interpretation of diagnostic procedures, and patient education. 

140.61. Acting Internship in Internal Medicine at VAMC. (1/2 per week) Su, F, W, Sp. Prerequisite: Fourth-year standing. 

Morelli
Assignment to team with first and second-year residents rounds with four to five weekdays,attends daily noon conferences, meets with other physical examination, writes-up, and oral quizzes. Students observe basic assessment of patients seen by the consultant, read electrocardiograms, and attend all seminars and conferences. 

140.55. Gastroenterology at A. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Ricchi
Clinical clerk participate in diagnosis and treatment of patients with gastrointestinal diseases. 

140.46. Clinical and Physiological Aspects of Pulmonary Disease at E. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Griffith
Students, trained with a resident, will evaluate and stabilize the care of patients admitted to an acute care hospital. Experience includes history-taking, physical examination, and writing progress notes. Attendance at daily teaching rounds and conferences is required. 

140.47. Rheumatology at VAMC. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110. 

Peigenbaum, R. Brownstein, Borkin, L. Abbott
Course offers opportunity for participation in various medical-orienting intern programs. Assignment to Health care Cognitive Fellows at the clinic. 


Airleff
Clerkship in clinical nephrology. Lectures, rounds, conferences, renal biopsy review. 

140.49. Gastroenterology at B. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110. 

Kaltreider
Clinical examination of patients in the Clinic, on the wards and in ICU and present them at ward rounds, pulmonary function and radiology conferences. They participate in pulmonology function testing and do assigned research. 


Ricchi
Students may elect clinical clerkship in infectious diseases after completing six weeks of training in infectious diseases. 

140.51. Infectious Disease at A. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110. 

Siperstein, Arand
An introduction to the diagnosis and treatment of endocrine-metabolism diseases. Areas covered are those endocrinopathies involving the major endocrine glands, as well as diabetic patients. Fellows attend the weekly endocrine conferences, will be examined and treated in both the inpatient and outpatient setting. 

140.50. Hematology Oncology at A. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110.

Gleis, L. Gold
Round with directors of Renal Service on patients with a variety of renal diseases, fluid, electrolyte, acid and base imbalances, and on patients requiring chronic hemodialysis or peritoneal dialysis. 

140.55. Infectious Disease at B. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110. 

J. Abbott
Students see patients in the coronary care unit, dedicated to the care of patients who are candidates for coronary artery bypass surgery. Prior to starting this clerkship, the student will complete the consult, read electrocardiograms, and attend all seminars and conferences. 

140.50. Pulmonary Service at B. (1/2 per week) Su, F, W, Sp. Prerequisite: Medicine 110 or consent of instructor.
140.60. Emergency Medicine at MZ (1/2), CWC (1/2), and WU, F. W. Spurr Prerequisite: Medicine 110 or Surgery 110.

Hellessen Emergency room experience providing acute care to a mixed inner city and rural inner city population. Students participate in daily conferences, emergency room activities, and observation and participation in the ward and clinic visitation and observation of cardiac and surgical patients. Emergency room personnel are present throughout the day to answer questions and give guidance to students. MEDICINE

140.63. Elective in Internal Medicine. (1/2 per week) Su. F., W. Spurr.

Shearn Fourth-year elective rotation for one month on medical wards at Kaiser Permanente Medical Center in Oakland. Students will be integrated into the rotational training program and will be involved in the care of hospitalized patients in an urban community setting. Internal medicine clerkships will be arranged. MEDICINE

140.64. Cardiology-Electrocardiography at EC (1/2) per week) F. W. Spurr. Prerequisite: Medicine 110.

D. Perloff, Scheinman Course instructs students on how to interpret electrocardiograms with additional exposure to other non-invasive procedures in cardiovascular imaging, treadmill testing, and use of radiocardiographs in cardiologic evaluation. Emphasis on electrocardiography, tachycardia, atrial fibrillation, and use of radiocardiographs in cardiology, including valve diseases, congenital heart disease, and coronary artery disease. MEDICINE

140.65. Elective in Clinical Oncology. (1/2 per week) W. Prerequisite: Medicine 110 or Pediatrics 110 or Surgery 110. E. B. Epstein

Four-week clinical rotation taught by faculty in pertinent medical, surgical, radiation and surgical oncology. Daily noon lectures on diagnosis, management, therapy of patients with malignancy by pertinent medical oncologists. Syllabus of pertinent references on current oncology literature. MEDICINE

140.66. Internal Medicine at VMC (1/2) per week Su., F., W. Spurr. Prerequisite: Medicine 110 or second year standing.

U. L. Libke Students assigned to teams with first and second year residents, rooms with attending physicians. Emphasis in the physical examination of diseases of the nervous system, gastrointestinal tract, and genitourinary tract. Medical students are also given opportunities to participate in daily conferences. MEDICINE

140.70. Clinical Hematology Oncology at VMC and VHC (1/2 per week) Su., F., W. Spurr. Prerequisite: First-year students must be seen in consultation by hematology oncology staff. MEDICINE J. A. Levy

Stolberg, Jansen-Akutsa Students participate in the work-up of hospitalized patients and follow up progress of patients seen in consultation by hematology oncology staff. Clinical problems in both inpatient and outpatient setting, discussion of treatment and follow-up of patients. MEDICINE

140.76. Ambulatory Care at IAF (1/2) per week) Su., F., W. Spurr. Prerequisite: Fourth-year standing and Medicine.

Nightlinger, Giner Students refine clinical skills through participation in pre-admission evaluation of ambulatory patients. Schedule also permits participation in selected specialty clinics. Students are assigned to one of the five specialty centers: general medicine, cardiology, pediatrics, obstetrics and gynecology, and surgery. MEDICINE

140.71. Pulmonary Medicine at VMC (1/2) per week) F. W. Spurr. Prerequisite: Medicine 110 or consent of instructor.

Lohnke Evaluation and management of adult patients with respiratory diseases, supervised by a pulmonologist and faculty. Pulmonary Medicine section of the internal medicine internal consult service. Emphasis on the evaluation and management of chronic obstructive pulmonary disease and pseudotumor cerebri. Students gain familiarity with complications of pulmonary disease and experience in the diagnosis and management of such diseases. MEDICINE

140.72. A Survey of Liver and Gastrointestinal Diseases at IAF (1/2 per week) Su., F., W. Spurr. Prerequisite: Medicine 110. J. L. Goldman Participation in evaluation of patients with gastrointestinal diseases. General knowledge of the normal physiology of the liver and gastrointestinal tract. General knowledge of chronic liver disease, acute liver disease, and gastrointestinal diseases. MEDICINE

140.69. Cardiology at VMC (1/2 per week) Su., F., W. Spurr. Prerequisite: Medicine 110. L. S. Goldman

Instructor of instructor.

140.02. Research in Medicine. (1/2 per week) W. W. Spurr. Prerequisite: Faculty member in charge of student's research project and approval of third-year and medical students. GOLDMAN

L. H. Smith, Carbone Students continue previously initiated research projects, with guidance of faculty members. MEDICINE

150.03. Cancer Viruses. (1/2 per week) Su., F., W. Spurr. Prerequisite: Basic concepts in virology. MEDICINE J. A. Levy

Tissue culture techniques and animal experimentation will be used to demonstrate the role of viruses in tumor development and animal and human disease. Research serves as a model for understanding similarities and disorders in man. MEDICINE

150.63. Interdisciplinary Clinical Skills. (2/2) W. Spurr. Prerequisite: Second-year standing or consent of instructor. Seminar 1 hour. Lab 3 hours.

Naughton, Yeast

Skills laboratory-seminar designed to create a working relationship between medical and nursing students, using teaching and acquisition of clinical and communication skills in the areas of patient history and physical examination. Special attention will be given to the care of patients with end-stage diseases. MEDICINE

160.04. Medical Science and Clinical Problems. (1/2) F. W. Spurr. Prerequisite: Third-year standing and enrollment in the Medical Science Training Program. Lecture 1 hour.

D. W. Martin, Neule Faculty and students participate in a clinical rounds and seminar course designed to develop understanding and integration of the information on cancer presented in other health science courses. Biomedical, clinical, and psychosocial aspects will be explored. MEDICINE


D. W. Martin, Neule Faculty from the basic sciences and clinical departments will discuss current research in this advanced lecture course. Reading and question and answer are given to students in preparation for Majors Research. Emphasis will be on analysis and critical evaluation of biomedical research. MEDICINE


J. C. Battista, E. N. Goldman

Instruction in basic electrocardiographic principles and interpretation of electrocardiograms. MEDICINE

170.05. Fundamentals of Electrophysiology and Transplantation. (1/2) F. W. Prerequisite: Medicine 131A. Lecture 1 hour. Rapraott

Review of basic principles of electrophysiology, cardiology and clinical application of electrophysiological recording and treatment. MEDICINE

170.07. Non-Invasive Laboratory Cardiology. (1) F. Spurr. Prerequisite: Medicine 110.

Rapraott

Fundamentals of non-invasive laboratory cardiology. Emphasis on clinical and exercise electrocardiography, Holter monitoring, phonocardiography, systolic time intervals, vectorcardiography, spiroelectrocardiography and other areas will be covered. MEDICINE

180.40. Introduction to Cancer Medicine. (2) F. Lecture 2 hours.

L. White Course provides a humanistic orientation to cancer care which will form a framework for understanding and integrating the information on cancer presented in other health science courses. Biomedical, clinical, and psychosocial aspects will be explored. MEDICINE


L. White Faculty from the basic sciences and clinical departments will discuss current research in this advanced lecture course. Reading and question and answer are given to students in preparation for Majors Research. Emphasis will be on analysis and critical evaluation of biomedical research. MEDICINE


J. C. Battista, E. N. Goldman

Instruction in basic electrocardiographic principles and interpretation of electrocardiograms. MEDICINE

180.08. Health and Human Rights. (3/2) Su. Lecture 3 hours.

J. Rouse, M. Parker Concepts of patients' rights, rights to care, rights to treatment, and patients' rights claims will be examined. Medically, legal and ethical questions will be examined. Medically, legal and ethical questions will be examined. Medically, legal and ethical questions will be examined. Medically, legal and ethical questions will be examined. Patients' rights claims and certain "rights" which impose duties on providers of health care. MEDICINE
189. Ethics in Health Care: Patients' Rights and Responsibilities. Course given as a two-day workshop.

Jonsen

Four cases illustrating typical ethical is-

to: patients' rights to treatment, to refuse

treatment to choose one's own treatment, and
to equal treatment, are presented and analy-

187. Ethics and Medical Care. (1) W

Lecture 12 hours. Course is given as a two-day

Jonsen

Lecture and workshop discussion of several medical care situations in the light of ethical and policy domains: care of en-

dering and defective newborns, exper-

188. Biomedical Ethics. (3) S

Lec-

ture 12 hours. Course is given as a two-day

Jonsen

Lecture and workshop discussion of ethical and policy domains of several current biomedical issues: aging and health care, fetal research, behavior technology, and the role of the pharmaceutical industry in health care.

188. Supervised Study in Medicine. (1-5)

Su, W, F, W. Prerequisite: Consent of instruc-
tor or preceptor and approval of third- and fourth-year coordinators.

L. H. Smith, Carbone

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

190. Laboratory Project in Medicine. (1-5) S, E, F, W, W. Prereq-

Seminar topics are conducted in the fields of gen-

to, hematology, and pediatrics.

189. Ethics in Health Care: Patients' Rights and Responsibilities. Course given as a two-day workshop.

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Su, W, F. Prerequisite: Consent of instruc-
tor or preceptor and approval of third- and fourth-year coordinators.

L. H. Smith, Carbone

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

190. Laboratory Project in Medicine. (1-5) S, E, F, W, W. Prereq-

Seminar topics are conducted in the fields of gen-

to, hematology, and pediatrics.

189. Ethics in Health Care: Patients' Rights and Responsibilities. Course given as a two-day workshop.

Jonsen

Four cases illustrating typical ethical is-

to: patients' rights to treatment, to refuse

treatment to choose one's own treatment, and
to equal treatment, are presented and analy-

187. Ethics and Medical Care. (1) W

Lecture 12 hours. Course is given as a two-day

Jonsen

Lecture and workshop discussion of several medical care situations in the light of ethical and policy domains: care of en-

dering and defective newborns, exper-

188. Biomedical Ethics. (3) S

Lec-

ture 12 hours. Course is given as a two-day

Jonsen

Lecture and workshop discussion of ethical and policy domains of several current biomedical issues: aging and health care, fetal research, behavior technology, and the role of the pharmaceutical industry in health care.

188. Supervised Study in Medicine. (1-5)

Su, W, F. Prerequisite: Consent of instruc-
tor or preceptor and approval of third- and fourth-year coordinators.

L. H. Smith, Carbone

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

190. Laboratory Project in Medicine. (1-5) S, E, F, W, W. Prereq-

Seminar topics are conducted in the fields of gen-

to, hematology, and pediatrics.

189. Ethics in Health Care: Patients' Rights and Responsibilities. Course given as a two-day workshop.

Jonsen

Four cases illustrating typical ethical is-

to: patients' rights to treatment, to refuse

treatment to choose one's own treatment, and
to equal treatment, are presented and analy-

187. Ethics and Medical Care. (1) W

Lecture 12 hours. Course is given as a two-day

Jonsen

Lecture and workshop discussion of several medical care situations in the light of ethical and policy domains: care of en-

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Jonsen

Lecture and workshop discussion of ethical and policy domains of several current biomedical issues: aging and health care, fetal research, behavior technology, and the role of the pharmaceutical industry in health care.

188. Supervised Study in Medicine. (1-5)

Su, W, F. Prerequisite: Consent of instruc-
tor or preceptor and approval of third- and fourth-year coordinators.

L. H. Smith, Carbone

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

190. Laboratory Project in Medicine. (1-5) S, E, F, W, W. Prereq-

Seminar topics are conducted in the fields of gen-

to, hematology, and pediatrics.
Residents are responsible for diagnosis and care of patients in the inpatient service. They also perform ward rounds and conferences under supervision of attending faculty. They also present patients at conferences and attend seminars and rounds at F.C. NEURO HUB.


Pitts, M. S. Edwards

Intends to rotate through neurological sur- gery and neurosurgical neurology. For testing, they are responsible for the care of patients, including history-taking, neuro- logical examination, laboratory tests, diagnos- tic procedures, and consultation. NEURO SURG

Neurology
Second-Year Coordinator Instruction— Medicine 152A-B. Lecture-demonstrations with rotation work devoted to the supervised examination of patients.

110. Clinical Clerkship in Neurology and Neurosurgery at UC, SFPH and VA (15) (per week) Su, F, W, Fp: Pre-Clinic: Medicine 152A-B. Co-rotation in ENT.

Lazar

Students are assigned patients for study under supervision of attending and resident staff. They attend ward rounds, attend neurological grand rounds, conferences, departmental lecture-seminars, emphasizing diagnosis and management of common clinical problems and psychiatric aspects of neurology. NEUROLOGY

140.01. Acting Internship in Neurology at UC, SFPH and VA (15) (per week) Su, F, W, Fp: Pre-Clinic: Neurology 110 and consent of instructor.

R. Fishman

Students serve as attending interns in neurology. Participation in departmental rounds, seminars, and conferences is required. Prior arrangements must be made.


R. Fishman

Clinical clerkship in approach to special segment of the patient population and arrangement of the program andchairperson of the department.

140.03. Advanced Clinical Clerkship at UC. (15) (per week) Su, F, W, Fp: Pre-Clinic: Neurology 110 and consent of instructor.

R. Fishman

Students serve as clinical clerkships at patient clinics. Attendance at departmental clinical rounds, seminars, and conferences is required. Prior arrangements must be made.


Berg

Participation in child neurology activities, including clinics and conferences, and regularly scheduled conferences of the Child Neurology Division. Study of the developing nervous system and diseases of the nervous system affecting infants, children, and adolescents. NEUROLOGY

140.05. Advanced Clinical Clerkship at SFPH. (15) (per week) Su, F, W, Fp: Pre-Clinic: Neurology 110 and consent of instructor.

R. Fishman, R. Simon

Students serve as clinical clerks in the outpatient neurology and the on-call rotation. Attendance at departmental clinical rounds, seminars, and conferences is required. Prior arrangements must be made.

140.06. Advanced Clinical Clerkship at UC. (15) (per week) Su, F, W, Fp: Pre-Clinic: Neurology 110 and consent of instructor.

R. Fishman, R. Simon

Students serve as clinical clerks in the outpatient neurology and the on-call rotation. Attendance at departmental clinical rounds, seminars, and conferences is required. Prior arrangements must be made.


R. Fishman

Conference includes resident presentation and presentation of patient case histories including reference to the literature, laboratory work, and special procedures. Faculty members and visiting professors from other institutions. NEUROLOGY 110 and consent of instructor.


Malament

Course involves the presentation and discussion of selected cases of clinical neurology and neuropathology. Specific emphasis will be on surgical and postmortem specimens from neurologists and neurosurgeons.


R. Fishman

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


R. L. Davis, Baringer

These laboratory techniques are part of the basic laboratory techniques in one of the laboratory departments.

150.03. Electrophysiological Laboratory. (15) (per week) Su, F, W, Fp: Pre-Clinic: Anatomy 103.

R. L. Davis, Baringer

These laboratory techniques are part of the basic laboratory techniques in one of the laboratory departments.


R. L. Davis, Baringer

These laboratory techniques are part of the basic laboratory techniques in one of the laboratory departments.


Aminoff

Residents learn the interpretation of electroencephalograms under the supervision of experienced consultants. Interpret electroencephalograms on patients seen in the clinic and with individual consultation available as required. A requirement for Qualification of the American Electrocencephalography Society NEUROLOGY


Pickert

Students learn the application of electromyography in the diagnosis of patients with disorders of the peripheral and autonomic nervous systems.


Malament

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


Resident is responsible for the care of patients under the direction of the attending staff and responsible for their care. Clinical teaching in neurology.


Resident is responsible for the care of patients under the direction of the attending staff and responsible for their care. Clinical teaching in neuropathology.


Resident is responsible for the care of patients under the direction of the attending staff and responsible for their care. Clinical teaching in neurosurgery.
110 Nursing


4.0 Core course introductory. "Nursing Research." 1st Edition. PhD. South Western. Program. 100 pages. Lab 2 hours. Lab 1 hour. 20 credits.

5.0 Core course introductory. "Nursing Ethics." 1st Edition. PhD. South Western. Program. 100 pages. Lab 2 hours. Lab 1 hour. 20 credits.


7.0 Core course introductory. "Nursing Informatics." 1st Edition. PhD. South Western. Program. 100 pages. Lab 2 hours. Lab 1 hour. 20 credits.

8.0 Core course introductory. "Nursing Policy and Advocacy." 1st Edition. PhD. South Western. Program. 100 pages. Lab 2 hours. Lab 1 hour. 20 credits.


10.0 Core course introductory. "Nursing Practice and Research." 1st Edition. PhD. South Western. Program. 100 pages. Lab 2 hours. Lab 1 hour. 20 credits.
20A. Theory Development in Nursing. (3-0) S. Prerequisite: Consent of instructor. Lecture. 3 hours.

Meleis, M. Dunlap

Examines, philosophically and analytically, the nature of theory and relationship between philosophy, theory, and science. Provides knowledge and experience in all stages of theory development: exploration and critique of research, theory development, and practice. Nursing, scholarly exchange toward interdependence. 3 hours. Lecture. 3 hours.

20B. Prototype Theories in Nursing. (3-3) S. Prerequisite: D.N.S. student standing in Lecture. 3 hours.

Meleis, M. Dunlap

Comparative study and critical analysis of the major prototype theories from which conceptions of nursing are derived. Emphasis is placed on systems, analytic, and theoretical developmental exchange, and adaptation levels. 3 hours. Lecture. 3 hours.

20C. Theories and Conceptual Frameworks. (3-3) S. Prerequisite: D.N.S. student standing in Lecture. 3 hours.

Meleis, M. Dunlap

Comparative study and critical analysis of major conceptual models and theories in nursing. Considers relationship congruency of conceptual models, prototype systems, theory, interaction, developmental/adaptation level theories. Examines the implication of nursing theory and models to research. 3 hours. Lecture. 3 hours.

20A. Research and Process of Consultation. (2-3) S. Prerequisite: Lecture 2 hours. Lab 0.5 hours.

Oda, Hookins

Study of theories and concepts of consultation as a facilitating mechanism in relationship to nurses working in primary, secondary, and tertiary prevention services. Emphasis will be on consultation strategies. Optional laboratory for theory testing. MENT HCOM

20A-B-C. Comparative Nursing Administration. (3-2.5-2.5) S. W.P. Prerequisite: Consent of instructor. 1. Archer, Schatzstein, Hill

Comparative analysis of nursing administration in the United States and other selected countries, using perspectives from anthropological, educational, historical, organizational, philosophical, social, and sociological contexts. Emphasis is given to how these concepts are applicable to the current situation. Particularly recommended for international students. MENT HCOM

20A. Family Dynamics, Concepts and Assessment. (3) S. Prerequisite: B.A. H. Hall, Teischer

An in-depth study of the family with special focus on family function and dysfunction. Individual dysfunction is seen from the perspective of family system structure and development. Analysis of theory includes identification of concepts that have heuristic value for nursing practice. MENT HCOM

20A-B. Family Dynamics, Pathology and Intervention. (3-3) S. Prerequisite: Permission of instructor. Supervision arranged and guided by the faculty. MENT HCOM

20A. Microteaching. (4) S. W.P. Prerequisite: Lecture 2 hours. Lab 2 hours plus other arrangements.

Okamoto

Analysis of the selected teaching component of microteaching, stimulus generation, questioning set induction, and closure utilizing individual and group instruction with application and practice in a microteaching laboratory setting. MENT HCOM

20A. Teaching-Learning Process. (2) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours.

Carriere, Lindsey, Mullins

Exploration of teaching methodologies with a focus on the changing characteristics of student learners, and the changing roles of healthcare professionals. Principles of explanation and test construction are emphasized. MENT HCOM

20A. Nursing Theory and Practice: Concept Description. (3) S. Prerequisite: Consent of instructor. Lab 5 hours. Seminar 2 hours.

Carriere, Lindsey, Mullins

Using clinical rounds and seminar approaches, concepts that occur in clinical phenomena are examined and described from theoretical and empirical perspectives. Concepts are selected from the available literature and are suitable for the needs of other health sciences. FAM HCOM

20A. Critical Studies in Maternal-Child Nursing. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Phillip

Critical analysis of clinical problems with concerned children of the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HCOM

20A. Critical Studies in Maternal-Child Nursing. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Highley, Savedra

Critical studies in nursing focused on the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HCOM

20A. Critical Studies in Childbirth. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Warner

Critical studies in death in intensity with the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HCOM

20A. Critical Studies in Childbirth. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

E. Nichols, L. Reynolds

Critical studies in death in intensity with the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HCOM

20A. Critical Studies in the Field of Aging. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

M. Cherubino, H. J. Bilton

20A. Critical Studies in the Field of Aging. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

E. Nichols, L. Reynolds

Critical studies in death in intensity with the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. FAM HCOM

20A. Critical Studies in Oncology Nursing. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Dodd

Presentation of the scholarly problems of critical products in oncology nursing. Emphasis will be on the evaluation of the research processes utilized by investigators, and the implications of empirical findings in the science of oncology nursing practice. BIOL DYNSYS

211.1B. Critical Analysis of Clinical In- 211.1B. Critical Analysis of Clinical In- 211.1B. Critical Analysis of Clinical In- 211.1B. Critical Analysis of Clinical Interventions with Young Reared Children. (3) S. W. Prerequisite: Consent of Interventions with Young Reared Children. (3) S. W. Prerequisite: Consent of Interventions with Young Reared Children. (3) S. W. Prerequisite: Consent of Interventions with Young Reared Children. (3) S. W. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

M. H. Hallenbeck

Clinical study of clinical interventions with young reared children with the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. MENT HCOM

211.14. Critical Study of Illness Behavior. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Chafez

Critical study of illness behavior, including psychiatric factors, with the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. MENT HCOM

211.15B. Critical Study of Research on the Role of Social Support in Health and Illness. (3) S. W. or Prerequisite: Nursing 211A or consent of instructor. Lecture 2 hours. Lab 3 hours.

Norbeck

Critical analysis of studies with respect to social support and in the role of research in achieving a variety of aspects of health and illness situations. Emphasis on attitudes, insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. MENT HCOM

211.2B. Critical Study of Cardiopulmonary Pathology. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Barstow

Critical study of cardiopulmonary research with the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. MENT HCOM

211.2B. Critical Study of Cardiopulmonary Pathology. (3) S. W.P. Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.

Barstow

Critical study of cardiopulmonary research with the intent to develop research consumerism. Emphasis is given to discovering insights, and abilities crucial to the appreciation, appraisal, and utilization of research in the health sciences. MENT HCOM
21A. Role Development: Specialized Nurse Role Development. (5) S Prerequisite: Consent of instructor. Lecture 2 hours. Lab optional 0.5 hours.

Oda Lecture/seminar focusing on the critical analysis of specialized nursing role developments. Role research emphasized. Includes traditional, expanded, and emerging roles relating to specialization. Optional laboratory for theory testing and systems integration. MENT HETH COM

21B. Role Development: Specialized Nursing Roles. (2-5) S Prerequisite: Consent of instructor. Lecture 2 hours. Lab 0.5 hours.

Staff Focus on the evolution of specialized nursing roles. Explores the concept of collaborative practice. Explores the roles of the nurse in the clinical setting. Explores current role delineation. Prerequisites. BSN, DYSFNC

21B. Nursing Care of the Acute Ill Child. (2) S Prerequisite: Consent of instructor. Lecture 2 hours.

Staff Focus on the evolution of specialized nursing roles. Explores the concept of collaborative practice. Explores the roles of the nurse in the clinical setting. Explores current role delineation. Prerequisites. BSN, DYSFNC

21B. Nursing Care of the Acute Ill Child. (3) S Prerequisite: Consent of instructor. Lecture 3 hours.

Staff Focus on the evolution of specialized nursing roles. Explores the concept of collaborative practice. Explores the roles of the nurse in the clinical setting. Explores current role delineation. Prerequisites. BSN, DYSFNC

22A. Survey of Modern Psychiatric Thought. (3) S Prerequisite: Consent of instructor. Lecture 3 hours.

Teach Selected topics related to human behavior will be presented. Clinical application of, and research related to, the role of problem solving in the mental health system. Prerequisites. MENT HETH COM

22B. A Survey of Modern Psychiatric Thought. (5) S Prerequisite: Consent of instructor. Lecture 5 hours.

Dvorak Selected topics related to human behavior will be presented. Clinical application of, and research related to, the role of problem solving in the mental health system. Prerequisites. MENT HETH COM

22C. Survey of Modern Psychiatric Thought. (5) S Prerequisite: Consent of instructor. Lecture 5 hours.

Underwood Selected topics related to human behavior will be presented. Clinical application of, and research related to, the role of problem solving in the mental health system. Prerequisites. MENT HETH COM

22D. Survey of Modern Psychiatric Thought. (5) S Prerequisite: Consent of instructor. Lecture 5 hours.

Bachmann Selected topics related to human behavior will be presented. Clinical application of, and research related to, the role of problem solving in the mental health system. Prerequisites. MENT HETH COM

22E. Survey of Modern Psychiatric Thought. (5) S Prerequisite: Consent of instructor. Lecture 5 hours.

Hillberg Selected topics related to human behavior will be presented. Clinical application of, and research related to, the role of problem solving in the mental health system. Prerequisites. MENT HETH COM

22F. Survey of Modern Psychiatric Thought. (5) S Prerequisite: Consent of instructor. Lecture 5 hours.

Hillberg Selected topics related to human behavior will be presented. Clinical application of, and research related to, the role of problem solving in the mental health system. Prerequisites. MENT HETH COM

22G. Survey of Modern Psychiatric Thought. (5) S Prerequisite: Consent of instructor. Lecture 5 hours.

Hillberg Selected topics related to human behavior will be presented. Clinical application of, and research related to, the role of problem solving in the mental health system. Prerequisites. MENT HETH COM

22H. Survey of Modern Psychiatric Thought. (5) S Prerequisite: Consent of instructor. Lecture 5 hours.

Hillberg Selected topics related to human behavior will be presented. Clinical application of, and research related to, the role of problem solving in the mental health system. Prerequisites. MENT HETH COM

22I. Role Development: Specialized Nurse Role Development. (5) S Prerequisite: Consent of instructor. Lecture 2 hours. Lab optional 0.5 hours.

Oda Lecture/seminar focusing on the critical analysis of specialized nursing role developments. Role research emphasized. Includes traditional, expanded, and emerging roles relating to specialization. Optional laboratory for theory testing and systems integration. MENT HETH COM

21A. Role Development: Specialized Nurse Role Development. (5) S Prerequisite: Consent of instructor. Lecture 2 hours. Lab optional 0.5 hours.

Oda Lecture/seminar focusing on the critical analysis of specialized nursing role developments. Role research emphasized. Includes traditional, expanded, and emerging roles relating to specialization. Optional laboratory for theory testing and systems integration. MENT HETH COM

22A. Role Development: Specialized Nurse Role Development. (5) S Prerequisite: Consent of instructor. Lecture 2 hours. Lab optional 0.5 hours.
241B. Collaborative Role Development in Primary Care. (3) S $ Prerequisite: Consent of instructor and concurrent enrollment in clinical residency. Seminar 1 hour.
Mclain and Staff
Critical analysis of issues and research related to collaborative practice in primary care. Emphasis will be on philosophy, interaction and role negotiation. Course is facilitated by Nursing and Medical faculty. FAM HTH

241C. Collaborative Role Development in Ambulatory Care. (3) S $ Prerequisite: Consent of instructor and concurrent enrollment in clinical residency. Seminar 1 hour.
Mclain and Staff
Critical analysis of issues and research related to collaborative practice in ambulatory care. Emphasis will be on philosophy, interaction and role negotiation. Course is facilitated by Nursing and Medical faculty. FAM HTH

242. Communicating in Health Care Settings. (3) S $ Prerequisite: Consent of instructor. Lecture 3 hours.
G. Doyle
Investigation of legislative and political issues related to the health care system. Emphasis is on the role of the nurse as a political agent. Lecture 2 hours. Lab 1 hour.

242A. Development of the Infant and Preschool Child. (5) S $ Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Enrolled limited. Assignment limited. Wacshel

Exploration of the major theories and research findings dealing with the physical, intellectual, and emotional development of the child from birth to school age. FAM HTH

242B. Development in Middle Childhood. (3) S $ Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Enrolled limited. Assignment limited. Wacshel

Exploration of the relevant theories, literature, and research findings dealing with normal cognitive, emotional, and social development during the elementary school years. FAM HTH

243C. Adolescent Development. (3) S $ Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Assignment limited. Wacshel

Exploration of relevant theory, literature, and research findings dealing with normal development during the adolescent period. FAM HTH

249. Adult Development. Young and Middle Adult Health. (3) S $ Prerequisite: Graduate standing, Child Development, and consent of instructor. Lecture 2 hours. Lab 3 hours. Assignment limited. Kayser-Jones

This seminar, using an anthropological, sociological, and psychological perspective, will cover developmental theory and research from young adulthood through old age. Current issues in young and middle adulthood will be discussed with an emphasis on the implications for healthcare. FAM HTH

254. Family Primary Care I. (5) S $ Prerequisite: Enrollment in Family Nursing Practitioner Program. Lecture 5 hours.
Shortridge
Theories, concepts and knowledge for comprehensive health promotion, disease prevention and interventions. Emphasis on common alterations in health and illness preventions throughout the life cycle will be presented. Emphasis will be on the family as the unit of care. FAM HTH

240B. Family Primary Care II. (5) S $ Prerequisite: Enrollment in Family Nursing Practitioner Program. Lecture 5 hours.
Bowe
Theories, concepts, and knowledge for comprehensive assessment and management of common acute and chronic stable condition occurs throughout the life cycle will be presented. Emphasis will be on the family as the unit of care. FAM HTH

240C. Family Primary Care III. (3) S $ Prerequisite: Enrollment in Family Nurse Practitioner Program. Lecture 3 hours.
Stotts
Theories, concepts, and knowledge for comprehensive assessment and management of chronic stable conditions for clients of all ages will be presented. Emphasis will be on the family as the unit of care. FAM HTH

241A. Collaborative Role Development in Primary Care. (3) S $ Prerequisite: Consent of instructor and concurrent enrollment in clinical residency. Seminar 1 hour.
Shortridge and Staff
Critical analysis of issues and research related to collaboration in primary care. Emphasis will be on philosophy, interaction and role negotiation. Course is facilitated by Nursing and Medical faculty. FAM HTH

240. Collaborative Role Development in Primary Care. (3) S $ Prerequisite: Consent of instructor and concurrent enrollment in clinical residency. Seminar 1 hour.
McLain and Staff
Critical analysis of issues and research related to collaboration in primary care. Emphasis will be on joint decision making and conflict resolution. Course facilitated by Nursing and Medical faculty. FAM HTH

241C. Collaborative Role Development in Ambulatory Care. (3) S $ Prerequisite: Consent of instructor and concurrent enrollment in clinical residency. Seminar 1 hour.
Shortridge and Staff
Critical analysis of issues and research related to collaboration in ambulatory care. Emphasis will be on organization and process of care. Course is facilitated by Nursing and Medical faculty. FAM HTH

245. Nursing Management of Metabolic Alterations in Surgical Patients. (3) S $ Prerequisite: Consent of instructor. Lecture 3 hours.
Stotts
Exploration and testing of theories, concepts, and principles underlying metabolic alterations in the preoperative and postoperative period. Emphasis is on the physiological and pathological changes associated with surgery in adults and the nursing role in addressing metabolic alterations. BOR DISFUNCT

242. Nursing Management of the Surgical Patient in the Ambulatory Setting and Postoperative Period. (3) S $ Prerequisite: Consent of instructor. Lecture 3 hours. Lab 2 hours.
Nichols
Application and testing of theories, concepts, and principles related to pathological and psychological adaptations in the preoperative and postoperative period. Emphasis is on nursing management of the high-risk patient with selected maladjustments. BOR DISFUNCT

249. Maternal and Child Health. (5) S $ Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.
Nichols
Exploration of the interrelationships among various issues, trends, and theories related to the aged. A discussion of the nurse's role in the planning and delivery of health care to the aged, both sick and well. FAM HTH

247. Legislating and Political Issues. (3) S $ Prerequisite: Consent of instructor. Lecture 2 hours. Lab 1 hour.
D. Green
Investigation of legislative and political issues related to the health care system. Emphasis is on the role of the nurse as a political agent. Lecture 2 hours. Lab 1 hour.

244. Theories of Group Psychotherapy. (3) S $ Prerequisite: Nursing 112 or consent of instructor. Lecture 2 hours. Lab 1 hour.
Staff
Theories of group psychotherapy based on psychodynamic, interpersonal, and communication theories pertinent to the practice of group psychotherapy by nurses. Exploration of different approaches to group psychotherapy, and the theoretical principles of group therapy, and role of psychiatric nurse as leader. MENT HTH COM

240A. Family Primary Care II. (5) S $ Prerequisite: Consent of instructor. Lecture 2 hours. Lab 1 hour.
Staff
Exploration of evolving mother-child relationship, adaptive tasks, and environmental and interpersonal situations interrupting healthy development of mothering. Implications of roles in the family. FAM HTH DISFUNCT

250. Research. (1-8) S $ Prerequisite: Admission to doctoral study and consent of instructor.
Staff
A comprehensive analysis of research design, theory, concepts, and methodology of advanced research strategies as group interaction, performance characteristics, and group structure will be examined with particular emphasis on measurement and experimental design. MENT HTH COM

250A. Maternal and Child Health. (4) S $ Prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours.
Nichols
Exploration of normal physiological changes occurring in mother and child. Emphasis is placed on the role of the nurse in facilitating and supporting the breastfeeding process in the newborn. Specific drugs, their clinical considerations, and the role of the nurse in drug therapy will be incorporated. BOR DISFUNCT
255.02. Child Health Maintenance. (2-3) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. Lab 0-3 hours.

Duran
Course provides exploration of theories, concepts and knowledge for competently facilitating health maintenance, encompassing prevention and promotion. Emphasis on parents as clients in assessment, planning, implementation and evaluation of common health problems and normal growth and development aspects in children's lives. PAM FETH

255.03. Management of Common Pediatric Illnesses. (2-3) S.P: Prerequisite: Consent of instructor, Lecture 4 hours. J. Philpott
Course covers theoretical basis of biomedical and psychological principles necessary for understanding, management of common pediatric illnesses. Provides format for integrating material with clinical findings. Emphasis on critical thinking, conceptual concepts in assessment and management. Corequisite with clinical I and II. PAM FETH

255.06. Therapeutic Use of Play. (2-3) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. Hardgrove
Practical experience using play therapies, techniques, and methods, in relating to young children, and the therapeutic uses of play. Includes the practical aspects of the psychological and social development of children. PAM FETH

255.07. Children at Risk. (3-3) S.P: Prerequisite: Nursing 223A, 229B, or 235C or equivalent and/or consent of instructor, Lecture 2 hours. Bratka
Introduction to assessment of temperament and constitutional factors in child development and early recognition to potential need for developmental referrals; assessment of childearing styles and environmental impact on quality of life. Emphasis on designing a conceptual framework for individual assessments. PAM FETH

257.01. Women's Health. (2-3) S.P: Prerequisite: Consent of instructor, Lecture 1 hour. K. Patterson
A broad overview of the physiological, anatomical and emotional changes in women's life span. Emphasis on the biological and environmental factors contributing to the health and wellness of women. PAM FETH

257.02. Women's Health: Theories and Concepts. (2-3) S.P: Prerequisite: Consent of instructor, Lecture 1 hour. K. Patterson
Introduction to theories, concepts and knowledge necessary to maintain and promote women's reproductive health. Emphasis on application of current research, decision making and management of decision making, and the client-centered, including collaboration with health team members. PAM FETH

259.03. Special Problems in Women's Health. (2-3) S.P: Consent of instructor, Lecture 1 hour. K. Patterson
Theory and management of bio-psycho-social deviations from normal in women, including menstrual cycle, menopause, postpartum, and perimenopausal period, and climacteric. Emphasis placed on participatory decision-making and resolution of these health problems through collaborative management between client and healthcare provider. PAM FETH

261. Introduction to Computer-Based Instructional Systems in Nursing Education and Practice. (2-4) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. Lab 0 hours. Corriere
Focus is on computer use and introduction to computer use in the clinical course of study and current issues in childbirth are explored in conjunction with clinical I and II. PAM FETH

259.01. Women's Health Care. (2-3) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. Lab 3 hours. K. Patterson, Nesson
Course provides a broad perspective of women's health care. Problems discussed include both the historical perspective and the current perspective. Includes the physiological and psychological aspects of women's health care. PAM FETH

259.02. Women's Health: Theories and Concepts. (2-3) S.P: Prerequisite: Consent of instructor, Lecture 1 hour. K. Patterson
Exploration of theories, concepts and knowledge necessary to maintain and promote women's reproductive health. Emphasis on application of current research, decision making and management of decision making, and the client-centered, including collaboration with health team members. PAM FETH

265B. Research Methods in Program Planning and Evaluation. (3-0) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. Lab 0 hours. D. Davidow
Examination of research of nursing practice. Emphasis on conceptualizing the evaluation problem, developing a research strategy, and implementing and analyzing the research study. Corequisites, Research Design and Research Methodology. PAM FETH

265C. Quality Assurance in Health Care. (3-0) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. Lab 0 hours. D. Davidow
Focus is on dimensions of quality assurance. Impact of value judgments and compo- nents of quality assurance. Focus on implementation and utilization review, professional standards, quality control and institutional control, and quality assurance and quality improvement. Corequisites include Nursing Ethics, Medical Law, and Statistics. PAM FETH

266. Social Context of Nursing Practice. (3-0) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. Lab 0 hours. E. Nichols
Focus is on the exploration of social pro- cesses and issues in contemporary issues in nursing. Interventions based on empirical data are considered. PAM FETH

266A. Nursing Interventions for Physical Dysfunction. (3-0) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. Lab 0 hours. D. Morin
Examination of the role of nurses in promoting physical health and maintaining physical health in a variety of practice settings. PAM FETH

268A. Nursing Evaluation of the Long Term Care Client. (3-0) S.P: Consent of instructor, Lecture 3 hours. D. Davidow
Selected frameworks for assessment, analysis of data and presentation of diagnostic and therapeutic decisions are used as subject to long-term care clients in institutional and community set- ings. Data bases and methodologies for col- lecting pertinent data and evaluating logical and consistent outcomes. PAM FETH

268B. Restorative Nursing with Long Term Care Clients. (2-0) S.P: Prerequisite: Nursing 268A or consent of instructor, Lecture 2 hours. D. Davidow
Examination of restorative nursing practices of long-term clients in various institutional and community settings. Examination of methods of interventions designed to promote client autonomy and evaluation outcomes toward client goals achieved. Restorative nursing. PAM FETH

269. The Research Process. (3-0) S.P: Prerequisite: Consent of instructor, Lecture 1 hour. Seminar 2 hours. D. Davidow
Lecture and guided study in the elements of the research process, management of a research area and design appropriate for conduct of a thesis or dissertation. Opportunity for organized meeting in an area of common special arrangement with other faculty (TBA) PAM FETH

269. Ethical Dilemmas and Nursing Practice. (2-0) S.P: Prerequisite: Graduating standing, Lecture 2 hours. A. Davis
Examination of selected ethical theories and dilemmas in health care and nursing practice. Focus is on selected case studies depicting ethical dilemmas in nursing prac- tice, nursing research, and health policy. PAM FETH

272. Protective Health Care of Adults. (2-2) S.P: Prerequisite: Consent of instructor, Lecture 2 hours. D. Davidow
Introduces principles of health mainte- nance for adult populations. Focus includes aspects of disease prevention as related to adults at different stages of adaptation and development. PAM FETH

Current concepts in occupational health nursing; implications of the occupational health model. Emphasis on the structure and organization of the occupational health system, including regulatory and control mechanisms for worker protection, labor management relations, and costs

Objective: To apply theoretical knowledge to clinical practice in further developing skills and to extend clinical expertise in selected areas of ambulatory and hospital health care. Guided clinical laboratory experience is designed to develop mastery of advanced skills. MENT HETH COM


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Talbot, Supervised practicum in nutrition counseling with dental clinic patients. Students will apply techniques of diet analysis, patient teaching, program planning, and patient counseling. PERIODICAL

118. Nutrition Counseling for Families. (3) F. W. Sp. Prequisite: Nursing 114 and/or consent of instructor. Lecture 2 hours, Lab 2 hours.

Objective: To apply theoretical knowledge to clinical practice in further developing skills and to extend clinical expertise in selected areas of ambulatory and hospital health care. Guided clinical laboratory experience is designed to develop mastery of advanced skills. FAM HETH.
202. Nutrition Counseling for Families. (3) 5 Prerequisite: Consent of Instructor. Lecture 3 hours; Lab 3 hours.

Gutiérrez

Theory and practice in the interpretation of current concepts, principles, and research in nutrition for family counseling. Emphasis will be on cultural dietary patterns. Fam HEI TH

Obstetrics, Gynecology and Reproductive Sciences

110. Core Clerkship in Obstetrics and Gynecology. (4½ per week) Su, F, W, Sp. Prerequisite: Medicine 125A-SC.

R. Sweet and Staff

Course is individually structured and directed by a student under the instructor, with emphasis on areas of interest and need for in-depth exposure to the subject matter. OB GYN R S

140.06. Gynecologic Clerkship at SFHN. (4½ per week) Su, F, W, Sp. Prerequisite: Obstetrics and Gynecology 110, Pediatrics and Medicine 110 and Surgery or consent of instructor.

R. Sweet and Staff

Course is individually structured and directed by a student under the instructor, with emphasis on areas of interest and need for in-depth exposure to the subject matter. OB GYN R S

140.07. Gynecologic Clerkship at UC. (1½ per week) Su, W, F, Sp. Prerequisite: Obstetrics and Gynecology 110, Pediatrics and Medicine 110 and Surgery or consent of instructor.

Braga, R. Glass

The clerk functions in the role of the acting resident on the gynecology service. Responsibilities are primarily on the inpatient service, but will include both clinical and non-surgical aspects of gynecologic oncology, endocrinology, infertility, and general gynecology.

140.08. Preceptorship in Obstetrics, Gynecology and Reproductive for each. (1½ per week) Su, F, W, Sp. Prerequisite: Obstetrics and Gynecology 110 and consent of instructor and chairperson of the department.

Staff

Seminars are critical in the analysis of clinical, social, and economic benefits of certain technologies including electronic fetal monitoring, intrauterine P. and cesarean and gynecologic operations, with special emphasis in the hospital setting.

231. Hormone Receptor Binding. (2) 5 Prerequisite: Consent of instructor Lecture 2 hours. Minimum of 4 students.

C. Korenbrot

Seminars in critical analysis of the clinical, economic, and ethical impact of hormone receptor binding include, breast cancer biologic and gynecologic cancers, with special emphasis in the hospital setting.


UC Laros, SFGH R. Sweet, Sp. Prerequisite: Pediatrics, Obstetrics and Gynecology.

Residents are responsible for the care of patients in the hospital and outpatient clinic. Formal and individual instruction is conducted. OB GYN R S

Occlusion

104A. Occlusion. (1) 5 Lecture 1 hour.

Tueller, Braly, T. Jacobson

Course is designed to teach students about the development of occlusion. As students learn the classic shapes of the teeth and their relationship to each other and convexity will be explored. R ESTOR

110B. Occlusion. (1) 5 Prerequisite: Satisfactory completion of Occlusion 104A. Lecture 1 hour.

Connell

Course is designed to develop skills for using transmission electron microscopy in research. The effects of anesthesia, fixation, and so on will be discussed. Students will be expected to carry out the process from tissue to electron micrograph. OB GYN R S

400. Staff Conferences. (3) Su, F, W. Prerequisite: Consent of instructor.

Jaffe and Staff

Conferences comprised of formal discussions by staff of the member of faculty, visiting and faculty lecturers. OB GYN R S

401. Surgical Pathology Seminar. (1) 5 Su, F, W.

H. Hill, Braga, H. Jones

Seminars in areas of current interest in reproductive endocrinology by guest speakers and members of the Reproductive Endocrinology Center. Students will be required to submit a term paper. Course may be repeated.

230. Reproductive Endocrinology. (2) 5 Prerequisite: Consent of instructor Lecture 2 hours. Minimum of 4 students.

R. Werner

Lectures and assigned readings focus on the reproductive endocrinology of the male and female. Topics include structure, function, and regulation of the hypothalamic-pituitary-gonadal axes and gonadal hormones, with special emphasis in the hospital setting.

231. Reproductive and Endocrinology. (1) 5 Prerequisite: Consent of instructor.

J. Roberts

An in-depth assessment of the characterization of hormone receptor interactions by ligand binding methods. Lectures, assigned readings, and laboratory practicals are included in the practical and technical aspects of techniques and data analysis. OB GYN R S

232. Theory and Techniques of Electron Microscopy. (3) 5 Prerequisite: Consent of instructor Lecture 1 hour Lab 6 hours.

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Clinical observation of patients in the clinic wards, and surgery at L. OPHTHALM.

140.05. Clinical Ophthalmology at YMC: (3 hours per week) Su, W, F, Prerequisite: Consent of instructor.

140.10. Ophthalmology Staff Conference. (1 hour per week) E, F, W, Prerequisite: Consent of instructor.

Residents, under supervision, are responsible for patient care including diagnostic studies and treatment of medical eye care, diagnosis, surgery, and follow-up treatment of surgical eye cases. OPHTHALM.

450. Clinical Ophthalmology. (15 hours per week) Su, W, F, Prerequisite: UC Beard, CHIC E. Stern.

Residents, under supervision, are responsible for patient care including diagnostic studies and treatment of medical eye care, diagnosis, surgery, and follow-up treatment of surgical eye cases. OPHTHALM.

480.02. Clinical Clerkship at UC. (4 hours per week) Su, W, F, Prerequisite: Consent of instructor.

Clinical observation of patients in various clinical settings and in surgery at UC. OPHTHALM.

480.03. Clinical Clerkship at SPGH. (15 hours per week) Su, W, F, Prerequisite: Consent of instructor.

Clinical observation of patients in the clinic wards, and surgery at SPGH. OPHTHALM.

480.04. Clinical Clerkship at L. (15 hours per week) Su, W, F, Prerequisite: Consent of instructor.

Goodwin and staff will observe and document the progress and outcomes of patients admitted to the chairperson of the department. OPHTHALM.

140.08. Clinical Ophthalmology Project at YMC: (3 hours per week) Su, W, F, Prerequisite: Consent of instructor.

A laboratory research project under direction of the chairperson of the department. OPHTHALM.

140.09. Ophthalmology Staff Conference. (1 hour per week) E, F, W, Prerequisite: Consent of instructor.

Residents, under supervision, are responsible for patient care in the follow-up clinics, including diagnostic studies and consultation. This role


Residents, under supervision, are responsible for patient care including diagnostic studies and treatment of medical eye care, diagnosis, surgery, and follow-up treatment of surgical eye cases. OPHTHALM.
Diagnosis is combined with patient-care assignments in the Otolaryngology Service. OPHTHALMIC:

Oral Diagnosis


Braly and Staff

Credit is assigned on a pass/fail basis for independent case work-ups and case presentations. GENENT.

109.01. Oral Diagnosis and Roentgenology Rotation. (0, 2) F, W, S. Prerequisite: Third-year standing. Clinic and Seminar block rotation 60 hours.

Braly and Staff

Clinical experience and small group instruction are provided in diagnosis and treatment planning, medical history, clinical photography, and roentgenology. GENENT.

109.01. Dent Emergency Clinic. (0, 1) F, W, S. Prerequisite: Oral Diagnosis 109. Prerequisite: Clinic rotation 20 hours.

S. Edle

Experience in the provision of dental emergency care in the UC Clinic and in the initial evaluation of patients seeking dental care. Instruction is provided on individual small group assignments. 116A-B-C. Clinical Dentistry. (0, 4, 4, 15) W, E, S. Clinic level hours. Clinic: 5 hours. Oral Diagnosis 109 hours. Oral Dentistry 109 hours.

Braly

Introduction to the concepts of oral health and disease and a recognition of these through a multidisciplinary clinical orientation.

116. Diagnosis and Treatment Planning. (2) Prerequisite: Diagnostic Dentistry 116A-B-C and Seminar 6 hours.

Maxwell

Small group instruction is provided in comprehensive care work-up of patients. Students complete a case history, clinical examination, routine laboratory and diagnostic tests, and treatment plan, meeting the patient's total dental needs. GENENT.

120. Introduction to Clinical Oral Diagnosis. (9-0) F, W, S. Prerequisite: Oral Diagnosis 109. Clinic variable.

Braly

Continuation of clinical experience at the level of Oral Diagnosis 109. GENENT.

120. Oral Biology. (5) F. Prerequisite: Anatomy 118. Lecture 26 hours. Laboratory 26 hours. Dr. Christie and Staff

Gross anatomy and histology of the oral and maxillofacial region. Includes the study of the tissues and structures of the oral cavity, the tongue, and the hard and soft palate. Options permitted: Oral and maxillofacial surgical approaches.

120. Oral Diagnosis and Hospital Dentistry

120.01. Oral Biology. (0-2) F, W, S. Prerequisite: Oral Medicine and Hospital Dentistry 120, 126, and 127. Lecture and Clinic 2 hours.

Chino, Caswell and Staff

Group rotation through two five-week sections of clinical diagnosis—presenting entities: history-taking, examination, diagnosis, treatment and follow-up, and medical consultation. Orientation to internal medicine and physical diagnosis. ORAL MED.

120. Oral Medicine. (3). Prerequisite: Oral Medicine and Hospital Dentistry 120 and 127. Lecture 5 hours.

T. E. Daniels

Handling of patients is introduced by emphasizing history-taking, differential diagnosis, and intellectual implications, clinical reasoning, laboratory in dental practice, and fundamental treatment. Classification of periodontal disease, oral pathology, diagnosis, and treatment of some benign lesions occurring in the oral cavity are covered. ORAL MED.

121. Introduction to Medicine. (4) Prerequisite: Anatomy 117A and 118, Biochemistry 120A, Microbiology 126A and 126B, Pharmacology 126B-C, and Physiology 126B-C.

Biehler, Zier

Introduction to clinical medicine for dental students. Pathophysiology and differential diagnosis of disease will be discussed. Emphasis will be placed upon ways that medical diagnosis and treatment will affect and improve the care of the dental patients. ORAL MED.

126. Temporomandibular Joint Seminar. (1) F, W, S. Prerequisite: D.D.S. Degree. With consent of instructor, students may take this course as an elective. Dr. R. Taylor

Seminar series covering differential diagnostic techniques and treatment approach to temporomandibular joint disease. ORAL MED.

170. Oral Biology. (2) F, W, S. Prerequisite: Oral Medicine and Hospital Dentistry 120 and consent of instructor. Seminar 2 hours.

R. Taylor

Advanced study of the oral tissues, with emphasis on their histophysiologic aspects. ORAL MED.

172. Current Oral Pathology. (1-2) S. Prerequisite: Clinic 1-2 hours.

L. Hanssen and Staff

A seminar designed to acquaint postdoctoral students and oral pathologists with the current literature on the microscopic and laboratory interpretation of cellular tissues, and chemical alterations. ORAL MED.

173A-B. Oral Immunology and Immunopathology. (0-4) F, W, S. Prerequisite: Consent of instructor. Lecture 2 hours. Two-quarter course.

J. Greenspan

Lectures and seminars on immunological mechanisms and their contribution to oral diseases. Topics to be covered include the immune response, autoimmune and microbial diseases, oral autoimmune disease, and discussions of the interface of immunology and inflammation. ORAL MED.

175A-B-C. Oral Pathology Seminar. (2-2-2) F, W, S. Lecture and Seminar 3 hours.

Merrell

The advanced dental student participates in lectures-seminars, in which emphasis is placed on current topics in oral diagnosis and treatment, relating the history, clinical, operative, and pathologic features, and radiographic findings. ORAL MED.

186. Introduction to the Biological Sciences. (5) Clinical Dentistry 186 hours. Demonstration 999 hours for three weeks.

R. Taylor

Seminars on introduction to the biological sciences in the first year of dentistry. anatomy, histology, and physiology. Course includes one-half day per week orientation to the campus community. ORAL MED.

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S. Silverman

Participation in the Oral Medicine Clinic applies knowledge, skills, and problem-solving skills into clinical scenarios. Students are evaluated on their clinical skills and understanding of the material presented in class. Specific medical knowledge is related to patient care. ORAL MED.

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S. Silverman, Ware

Students provide comprehensive dental care to patients assigned to them under supervision of staff in the medical and hospital practice, with scheduled seminars and oral examinations. ORAL MED.


S. Silverman, T. E. Daniels, J. Olson

Review of oral diseases most relevant to postgraduates. Focus is on the recognition and prevention are covered. Subjects include introduction to Oral Pathology, dentistry, periodontal disease, pre-cancerous lesions, oral cancer, salivary gland disease, oral infections and carcinomas, and diseases of the tongue. ORAL MED.

S. Silverman, Ware

Students are provided with detailed, comprehensive clinical training under the direction of a member of the faculty with the ap-
209. Biology of Connective Tissue. (2.5) S. Silverman. Prerequisite: Biochemistry or consent of instructor. Lecture 2-3 hours.

A seminar course in connective tissue biology, concerned mainly with the development, differentiation, and pathology of connective tissues; includes such topics as regulatory controls of connective tissue macrophage functions; fibrosis, wound healing, inflammation, tissue destruction, and selected general problems. ORAL MED.


A seminar series covering current advances in research in oral biology in a systematic and historically-historical standpoint with emphasis on problems, significance of findings, and protocols of future research. ORAL MED.


J. Grecasan

Lectures and seminars on immunological mechanisms and their contribution to oral diseases. Topics to be covered include the immunology of periodontal disease, oral microbial flora, oral autoimmunity, and discussions of the immune interface of immunopathology and inflammation. ORAL MED.

210. Radiographic Interpretation. (1) F. Lecturer 1 hour. Kirkos

A laboratory research project under direction of the faculty. Critical evaluation of data. ORAL MED.


Lectures and seminars on diseases of the oral regions. Diseases are studied from morphological and histopathological standpoint with emphasis on etiology and pathogenesis. ORAL MED.


Participation in the Oral Medicine Clinic applying knowledge of history-taking and differential diagnosis, utilizing various diagnostic techniques such as biopsy, cytology, and certain clinical pathology laboratory tests: interpret results, prescribe treatment and follow-up. ORAL MED prints; and weekly seminars. ORAL MED.


Participation in the Temporomandibular Joint Clinic applying knowledge of history-taking and diagnostic techniques utilizing diagnostic techniques as laminaographic X rays, occlusal analysis, and other specific joint tests: interpreters results, describes treatment, and follows-up with patient reviews. ORAL MED.

409B. Oral Radiology. I. (1.5) F, W, Sp. Prerequisite: Consent of instructor.

A course in introral X-ray technique including instruction in the cone long paralleling method and practice on mannequins and skulls. ORAL MED.

409C. Oral Radiology. II. (1.5) F, W, Sp. Prerequisite: Consent of instructor.

An introduction to the basic techniques of roentgenography, post-operative care, hemorrage control, and medical emergencies. ORAL MED.


A course in introral X-ray technique, including instruction in the cone paralleling method, and practice on skulls and mannequins. Objectives of the course is to prepare the student for clinical experience during the diagnostic course. GEN DENT.
Oral Surgery

175. Oral Surgery. (35) Su. Prerequisite: Limitation to oral surgery interns. Hospital and Clinic 40 hours.

Wage and Staff

Principles of surgery and longevity as related to the mouth and clinical operations on patients. ORAL MED.

175A-01A. Oral Surgery. (2.7-2.7) F. W. Prerequisite: Limited to interns and residents. Lecture Seminar 2 hours, Clinic 24 hours.

Wage and Staff

Continuation of Oral Surgery 175. ORAL MED.

175.02. Oral Surgery. (35) Su. Prerequisite: Limited to oral surgery residents. Seminar 2 hours, Hospital and Clinic 40 hours.

Wage and Staff

Continuation of Oral Surgery 175A-01A. ORAL MED.

175.03. Oral Surgery. (35) Prerequisite: Limitation to oral surgery residents. Seminar 2 hours, Hospital and Clinic 40 hours.

Wage and Staff

Hospital procedures, ward rounds, and clinical practice in several hospitals; treatment of gum fractures, ostomy, cellulitis, and other complicated oral surgical procedures. Residents will have administrative responsibilities in conducting ward rounds and weekly conferences. ORAL MED.

175A-02. Oral Surgery. (10-10) W. Prerequisite: Limited to oral surgery residents. Lecture 2 hours. Hospital and Clinic 24 hours.

Wage and Staff

Continuation of Oral Surgery 175.03 with the addition of surgery of the jaws for correction of such facial deformities as prognathism, hemiaphrenia, apragnathism, and retrognathia. Instruction in temporomandibular joint surgery.


Wage and Staff

Continuation of clinical oral surgery. continued each week devoted to the instruction and supervision of graduate students. ORAL MED.

175A-03. Oral Surgery. (15-15) E. W. Prerequisite: Oral Surgery 175.05. Limited to oral surgery residents. Hospital and Clinic 40 hours.

Wage and Staff

Office Anesthesia for the Ambulatory Oral Surgery Patient. (2) F. W. Prerequisite: Limited to second- and third-year oral surgery residents. Clinic 8 hours.

Wage and Staff

Under oral surgery office conditions, and under immediate supervision of the staff, residents will be responsible for care and management of the ambulatory patient who is to undergo an oral surgery procedure under oral surgery anesthesia. ORAL MED.


R. A. Smith

An elective didactic and demonstration course with practice sessions to assure the student's knowledge and capability of managing the psychomotor skills of cardiopulmonary resuscitation. ORAL MED.

189.01. Advanced Oral Surgery. (9-9) F, 5. W. Prerequisite: Completion of first year of professional training and consent of instructor. Clinic variable.

Wage and Staff

additional clinical experience in oral surgery ORAL MED.

189.02. Oral Surgery. (5-5) E. W. Prerequisite: Oral Surgery 109.01. Consent of instructor and approval of Clinic Review Committee. Clinic and Seminar 4 hours.

Wage and Staff

Course provides limited experience in hospital oral surgery including assisting and performing oral surgery procedures, and aspects of premedication as related to the ambulatory oral surgery patient. Orientation in the pre- and operating room procedures. ORAL MED.

189.03. Oral Surgery. (10) E. W. Prerequisite: Oral Surgery 110. Consent of instructor and approval of Clinic Review Committee. Clinic seminar and 3 hours. SPGH.

Wage and Staff

Course provides limited experience in hospital oral surgery including assisting and performing oral surgery procedures, and aspects of premedication as related to the ambulatory oral surgery patient; orientation in the pre- and operating room procedures. ORAL MED.

189.04. Advanced Clinical Clerkship in Oral Surgery at GS and SGPH. (10) per week. W. Prerequisite: Fourth-year student and approval of Clinic Review Committee.

Wage, Coverage, Khalsa

Students participate as volunteers in the care of hospital inpatients and outpatients. They also assume responsibility for lecture. ORAL MED.

190. Laboratory Project in Oral Surgery. (1.5-1) F, W. Sp.

R. M. Meyer

A laboratory research project under direction of a member of the faculty with the approval of the chairman of the department. ORAL MED.

491.01. Clinical Oral Surgery. (3) 1/2. F, W. Prerequisite: Consent of instructor and approval of Clinic Review Committee. Clinic 1/2 day.

R. A. Smith

Course is designed to teach the dental intern exodontia procedures under close supervision in the oral surgery clinic. The trainee takes responsibility for care of the oral surgical patient, including exodontia, surgery planning, and postoperative care. ORAL MED.

0.0 Credit. Oral Surgery. (3-3) Lecture 0.5 hours.

Wage and Staff

A discussion of recognition, etiology, and principles of orthodontics for the dental hygienist. GRDE.

176A. Orthodontics. (2-2) Prerequisites: Dental Hygiene 121A or 121B or equivalent. GRDE.

R. M. Meyer

Evaluation and treatment of clinical ortho-dontic problems as experienced in general dental practice. ORAL MED.

171B-C. Orthodontics in Periodontic Patients. (2) E. W. Prerequisite: Consent of instructor and enrollment in a post-graduate specialty program. Lecture 0.5 hours.

E. West

Course includes orthodontic diagnosis and techniques that are applicable in a periodic practice. GRDE.

171A-B-C-D. Orthodontics in General Practice. (3-3, 0.5-2) F, W. Prerequisite: Orthodontics 121B. Lecture 0.5 hours. Lab 0.5 hours.

R. M. Meyer

Recognition and treatments of the problems most commonly seen by the general prac- titioner. GRDE.

166.0.0 Credit. Orthodontics. (3-3) Lecture 0.5 hours.

Wage and Staff

A discussion of recognition, etiology, and principles of orthodontics for the dental hygienist. GRDE.

171A-C-D-E. Fundamentals of Or- thodontics. (0.5-0.5) F, W. Prerequisite: Orthodontics 121A and 121B, or concurrent enrollment in Orthodontics 131A or 131B Clinic variable.

R. M. Meyer

Classification, etiology, and diagnosis of malocclusion. Study of the dentition and the relationships of dental and cranial structures. GRDE.

171B-C. Orthodontics in Periodontic Patients. (0.5-0.5) F, W. Prerequisite: Consent of instructor and enrollment in a post- graduate specialty program. Lecture 0.5 hours.

E. West

Course includes orthodontic diagnosis and techniques that are applicable in a periodic practice. GRDE.

171A-B-C-D-E. Orthodontic Diagno- sis and Treatment Planning. (0.5-0.5, 0.5-0.5) F, W. Prerequisite: Enrollment in orthodontics residency program. Lecture 0.5 hours.

Position and Staff

Orthodontic and oral surgical patients participate in evaluating and defining treatment possibilities for patients with facial and occlusal deformities who have been treated in a combined therapy. Review and presentation of case materials. ORAL MED.

173A-01A-C-D. Orthodontic Diagno- sis and Treatment Planning. (0.5-0.5, 0.5-0.5) F, W. Prerequisite: Enrollment in orthodontics residency program. Lecture 0.5 hours.

Iasacson and Staff

Evaluation and treatment planning of vari- ous types of malocclusion. GRDE.

173A-06A-B-C-D. Treatment Evaluation. (1-1, 0.5-0.5) F, W. Prerequisite: Enrollment in orthodontics residency program. Lecture 0.5 hours.

Iasacson and Staff

An evaluation of orthodontic treatment and diagnosis for stability of results of treatment. GRDE.

174A-B-C-D-E. Biomechanics. (0.5-0.5, 0.5-0.5, 0.5-0.5, 0.5-0.5) F, W. Prerequisite: Enrollment in orthodontics residency program. Lecture 0.5 hours.

Yoshikawa and Staff

Fundamental concepts of force systems will be presented. Included are equilibrium of forces, equivalence and free body analysis. Concepts will be related to orthodontic treatment plan- ning and appliance design. GRDE.

174A-B-C-D-E. Primary and Mixed Dentition Diagnoses and Treatment. (0.5-0.5, 0.5-0.5, 0.5-0.5) F, W. Prerequisite: Enrollment in orthodontics residency program. Lecture 0.5 hours.

Yoshikawa and Staff

Orthodontics, primary and mixed dentition is designed to provide diagnostic infor- mation and treatment planning for maloculsive
Clinical Orthodontics/Orthopaedic Surgery

Core Clerkship – Surgery 110 and 111

179.01A-B-C-D-E. Clinical Orthodontics. (10, 30, 50, 100) F, W, S, Prerequisite: Enrollment in postgraduate orthodontics or pedodontics program. Lab varies from 100 to 210 hours.

Isaacson and Staff

Laboratory instruction precedes clinical experience. A minimum of 1,080 hours are included in the series of Orthodontics 179.01, 179.02, 179.03, and 179.04 GR DEVL.

179.02A-B-C-D-E. Clinical Orthodontics. (10, 30, 50, 100) F, W, S, Prerequisite: Enrollment in postgraduate orthodontics program. Lab varies from 100 to 210 hours.

Isaacson and Staff

Confinement of Orthodontics 179.02A-B-C-D-E. GR DEVL.

179.04. Clinical Orthodontics. (0, 5) SS. Lab and GR DEVL.

E. West and Staff

Confinement of Orthodontics 179.03A-B-C-D-E. GR DEVL.

181. Occult. (1) F, W, S, Prerequisite: Orthodontics 171, 173, and 175. 1 session hour.

Schols

Various concepts of occult will be evaluated as they affect habilitation and functional problems of the tempomandibular joint.


Yoshikawa and Staff

Review of general principles of craniofacial growth as applied to detection in treatment of incipient malocclusion. GR DEVL.

Orthopaedic Surgery

Five-Year Coordinated Instruction – Medicine 315B-C. Lecture-demonstrations and section work devoted to supervised examination of patients.

402. Seminars in Physiology of Musculoskeletal System. (1) F, W, S, Prerequisite: 110.


410. Orthopaedic Surgery Clinical Clerkship at UC SpGH and VA. (1/2 week) F, W, S, Prerequisite: Surgery 110 and 111.

W. Murray

Course includes lectures by students and faculty on selected topics in the musculoskeletal system, with particular emphasis on the radiographic detection of casais malalignment, and demonstration of surgical approaches. ORTHO SURG.

434. Seminar in Orthopaedic Literature. (1) F, W, S, Prerequisite: Orthopedic Surgery 110. 1 session hour.

UC Trafon

Seminar includes presentation of selected orthopaedic surgery subjects featuring historical review and recent literature. They may be moderated by an assigned faculty member. ORTHO SURG.


UC Murray

Clinical instruction in the care and management of orthopaedic problems in rheumatoid arthritis and allied diseases. Cases are presented by residents to attendings and rheumatology consultants. ORTHO SURG.


J. Slabach

Residents prepare and present case histories of inpatients and selected outpatients. Conference is held once a week. 1 session hour.


J. Slabach

Residents present case histories of patients seen on the inpatient service. 1 session hour.

408. Orthopaedic Surgical Conference. (1) F, W, S, Prerequisite: Surgery 110.

UC Murray

Residents present case histories of patients seen on the inpatient service. 1 session hour.

450. Clinical Adult Orthopaedics. (1.5) per week, F, W, S, Prerequisite: Orthopedic Surgery 110. 4 sessions weeks.


Residents are responsible for care in the wards and outpatient clinic in the management of clinical problems under supervision as well as didactic lectures every week. Study is coordinated with other services and with the St. Mary's Hospital, UC, clinic, Grodin and Staff.

451. Clinical Pediatric Orthopaedics. (1.5) per week, F, W, S, Prerequisite: Orthopedic Surgery 110.


Residents are responsible for care in the wards and outpatient clinic in the management of clinical problems under supervision as well as didactic lectures every week. Study is coordinated with other services and with the Children's Hospital, UC, clinic.

452. Clinical Traumatic and Adult Orthopaedics. (1.5) per week, F, W, S, Prerequisite: Surgery 110.


Residents are responsible for care in the wards and outpatient clinic in the management of clinical problems under supervision as well as didactic lectures every week. Study is coordinated with other services and with the Children's Hospital, UC, clinic, and with the Starside Hospital, UC, clinic.
A practical course in general otolaryngology including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered.

140.01B. Clinical Otolaryngology Clerkship at VA (1.1 per week) Su, E, W, F, Prerequisite: Medicine 115A-B and Surgery 110.

A practical course in general otolaryngology, including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered.

140.02B. Clinical Otolaryngology Clerkship at VA (1.1 per week) Su, E, W, F, Prerequisite: Medicine 115A-B and Surgery 110.

A practical course in general otolaryngology, including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered.

140.03B. Clinical Otolaryngology Clerkship at VA (1.1 per week) Su, E, W, F, Prerequisite: Medicine 115A-B and Surgery 110.

A practical course in general otolaryngology, including diagnosis and treatment of common ear, nose, and throat problems; both inpatient and outpatient experiences will be offered.

140.04B. Clinical Otolaryngology Clerkship at VA (1.1 per week) Su, E, W, F, Prerequisite: Medicine 115A-B and Surgery 110.

A laboratory course conducted in the ear, nose, and throat laboratories. All students who elect the laboratory are expected to attend.

140.05B. Clinical Otolaryngology Clerkship at VA (1.1 per week) Su, E, W, F, Prerequisite: Medicine 115A-B and Surgery 110.

A laboratory course conducted in the ear, nose, and throat laboratories. All students who elect the laboratory are expected to attend.

140.06B. Clinical Otolaryngology Clerkship at VA (1.1 per week) Su, E, W, F, Prerequisite: Medicine 115A-B and Surgery 110.

A laboratory course conducted in the ear, nose, and throat laboratories. All students who elect the laboratory are expected to attend.

140.07B. Clinical Otolaryngology Clerkship at VA (1.1 per week) Su, E, W, F, Prerequisite: Medicine 115A-B and Surgery 110.

A laboratory course conducted in the ear, nose, and throat laboratories. All students who elect the laboratory are expected to attend.
170.01. Clinical Cytology, (3) S, 10 weeks. Enrollees: Anatomy 102, Pathology 101, 102, and consent of instructor.

M. T., I. E. Hall

Cytology is the study of cells and their components. This course is designed to provide students with a solid understanding of the principles of cytology and the techniques used in its study. Students will learn about the basic structure and function of cells, as well as the principles of cytologic staining and interpretation. This course will also cover the cytoologic examination of various body fluids and tissues, including blood, urine, sputum, and others.

180.01. Pathology, (3) 2, 10 weeks. Enrollees: Anatomy 102, Pathology 101, and consent of instructor.

B. A. and R. S.

Pathology is the study of the structure and function of tissues and organs. This course will provide an in-depth understanding of the normal and abnormal processes that occur in cells, tissues, and organs. Students will learn about the various disorders that can affect these structures, as well as the methods used to diagnose and treat them. This course will also cover the pathophysiology of disease, including the mechanisms of disease development and progression.

190.01. Advanced Clinical Pathology, (3) 2, 10 weeks. Enrollment: Anatomical Medicine 102, 103, and 104.

S. H. and R. S.

Advanced Clinical Pathology is designed to provide students with a comprehensive understanding of the clinical applications of pathology. Students will learn about the role of pathology in patient care, including the interpretation of laboratory data and the correlation of clinical and pathologic findings. This course will also cover the diagnosis and management of common diseases, as well as the latest advances in diagnostic technology and treatment options.

200.01. Special Pathology Seminars, (4) 2, 10 weeks. Enrollment: Anatomical Medicine 102, 103, 104, and consent of instructor.

M. T., I. E. Hall

Special Pathology Seminars are designed to provide in-depth coverage of specific topics within the field of pathology. These seminars will be led by experts in the field and will cover the latest research and developments in various areas of pathology. Students will learn about the latest diagnostic techniques and treatment options, as well as the role of pathology in the management of disease.

210.01. Pathology of Aging, (2) 2, 10 weeks. Enrollment: Anatomical Medicine 102, 103, 104, and consent of instructor.

J. J. and R. S.

Pathology of Aging is a course designed to provide students with a comprehensive understanding of the aging process and its impact on various systems of the body. Students will learn about the changes that occur in the body with age, as well as the role of pathology in the diagnosis and management of age-related diseases.

220.01. Experimental Pathology, (2) 2, 10 weeks. Enrollment: Anatomical Medicine 102, 103, 104, and consent of instructor.

B. A. and R. S.

Experimental Pathology is a course designed to provide students with an understanding of the principles and methods used in the experimental study of disease. Students will learn about the techniques used to generate and study disease models, as well as the role of experimental pathology in the development of new diagnostic and therapeutic approaches.
140.07. Adolescent Medicine—Clinic. (11/2 per week) W. Prerequisite: Medicine 110 and Pediatrics 110. Consent of instructor.

Grumbach

Students are assigned patients under the supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for discussion of patients. PEDIATRICS


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Grumbach

Students are assigned patients under the supervision of attending and resident staff. They present patients on wards, assist with procedures, and attend specialty conferences for discussion of patients. PEDIATRICS


Gareis

Clinical clerkship in adolescent medicine with emphasis on outpatient clinical experience, particularly in the area of health problems of the adolescent. PEDIATRICS

140.08. Ambulatory Pediatric Clerkship at CHMC. (11/2 per week) Su, W, F, Wp. Prerequisite: Medicine 110 and Pediatrics 110.

R. Ballard, D. Berg

Students participate in the ambulatory pediatric pro-
gram at CHMC. This program includes an internship call includes pediatric E.R. and inpatient experience. Students will follow patients from their team on the inpatient service. PEDIATRICS


Berg

Supervised participation in clinical activities, both inpatient and outpatient, and all regularly scheduled conferences of the Child Neurology Division. Study of the developing nervous system and diseases of the nervous system affecting infants, children, and adolescents. PEDIATRICS


P. Smith

Seminars on clinical aspects of hematology and oncology for pediatricians and residents. PEDIATRICS


Higashino

Students participate in clinics of the cardiology division, including outpatient evaluation, instruction

in the noninvasive methods of diagnosis, care of inpatient and outpatient pediatric cardiology, cardiovascular laboratory, and cardiovas-
cular conferences. Emphasis is on the clinical principles of diagnosis and management. PEDIATRICS


Zoger, M. Abbott

Advanced clerkship on the general medical-surgical inpatient unit. Suitable for students who have cared for pediatric patients during the Care With Parent Program. Night call includes pediatric E.R. experience. PEDIATRICS


Grumbach, S. L. Kaplan, F. Conte

Participation in the clinical and research aspects of endocrine and metabolic problems in children. Students spend time in the laboratory and in the clinics. PEDIATRICS

140.14. Management of Juvenile Diabe-

Berg

Work under the direction of the instructor in Diabetic Camp; clinical and management aspects of diabetes. Students have an opportu-
nity to participate in the operation of the program and treatment of diabetes in children, adolescents, and young adults. PEDIATRICS


Ablin, Knosher, Zoger

Participation in management of patients with leukemia and other hematologic malignancies. Experience in the pediatric tumor board, ward rounds and outpa-

tient clinic. Special emphasis on psycho-

somatic problems, supervision of resident and con-
discussion with peertoPEDIATRICS


Holliday, Piel, Potter

Introduction to practical aspects of the clin-
ical experience in pediatric nephrology with children having nephrological problems, ESRD, and chronic renal failure. To present and dialysis, consultation, new cases from the ward and cases requiring consultation with projects may be arranged with instructors. PEDIATRICS


C. Epstein, B. Hall

Evaluation and management of children and adults with hereditary (including enzymic) diseases, with particular em-
phasis on genetic counseling. To achieve human malformation, and the biochemical and clinical manifestations of these conditions. PEDIATRICS

140.18. Endocrinology in Inpatient Pediatric-

Giaouna

Students participate in patient care in association with the house staff and clinical fellows both in wards caring for sick children and in the inpatient and outpatient units. Rounds and conferences conducted by senior faculty.


Giaouna

Students participate in the comprehensive care of children. Experience with various il-

nesses in appropriate inpatient and outpatient clinics. A wide variety of child care problems is handled. Kalmano, Zoger, and nut of the participating physicians of senior pediatrics participating in the program. PEDIATRICS
 Lecture course presenting dental procedures unique to, or modified to meet, the needs of the child. Examination, diagnosis, treatment planning, pain management, behavior modification, restorative procedures, preventive oral hygiene, diet and oral health are stressed. 

170. A01-B-C-D. Clinical Periodontics. (0.5, 0.5, 0.5, 0.5) E. S. Miller. Clinic variables.

B. A. Smith and Staff


171. B01-C-D-E. Pediatric Dentistry. (0.5, 0.5, 0.5, 0.5, 0.5) F. W. Sp.; Prerequisite: Periodontics 170A 01-B-C-D. Clinic 0.15 hours.

B. A. Smith

Continuation of Periodontics 170A 01-B-C-D. GER DEVL.

171. B01-C-D-E-F. Pediatric Seminar. (0.5, 0.5, 0.3, 0.3, 0.3, 0.3, 0.5) F. W. Sp.; SSII. Seminar 1.5 hours.

B. A. Smith and Staff

A variety of pediatric patients are discussed through documented case history presentations. Current and classical literature in all approved and allied specialty areas are reviewed. GER DEVL.

175. Periodontal Community Outreach. (0.6) E. S. Miller. Prerequisite: Periodontics 170A 01-B-C-D. Clinic variable.

M. Morris and Staff

Students provide dental care for a non-English speaking migrant population, utilizing the resources of the mobile dental van.


Khola, Devlin

Hospital procedures, management of trauma and emergencies involving the primary and young sedated teeth. Extractions, replantation, pulp protection, stabilization of extracted teeth, management of impacted teeth, and reparative therapy are emphasized. GER DEVL.

176. Pediatric General Anesthesia. (5) F. CEMC 90 hours.

K. Schroeder and Staff

An introductory course in general anesthesiology. The anesthetist subject to the student with general anesthesia the attendant problems and risks, methods of patient evaluation and anesthetic experience under close supervision. GER DEVL.

177. Pediatric Dental Hospital Dentistry. (0.5) Su, F. W. Sp.

Reham and Staff

Experience is provided in history-taking, admitting, laboratory tests, orders, and chart keeping. Students are assigned to an interdisciplinary health care team and provide dental care for patients on the ward or in the operating room, using a general anesthetic. GER DEVL.

177. Advanced Clerkship. (0.58) Sp.; Prerequisite: Pediatric standing and arrangement through head, postgraduate periodontist, to observe the practice management of the offices. Lecture and lab variable.

B. A. Smith and Staff

Courses provide varied clinical experiences in skills, and competence. This advanced clerkship is available for second year students in all odontologists who have successfully completed the required courses of periodontic program. GER DEVL.

180. 01-B-C-D. Pediatric Seminar. (1) W. Sp.; Prerequisite: Completion of third year in the periodontic program and clinic variable. Lab 0.75 hours.

M. Morris, Stark and Staff

An elective clinical course in pedodontics.

Periodontology

Students provide care for children at selected migrant farm communities while providing preventive care, comprehensive operative procedures including pulp therapy and periodontal surgery, and processing needed radiographs. GER DEVL.

180. Clinical Periodontics. (0.5) W. Sp.; Prerequisite: Periododontics 170A 01-B-C-D. Clinic variable.

B. A. Smith

Documented discussions on occlusion, mixed dentition analysis, malocclusions, missing incisors and premolars, hypoplasia, anomalies, injuries, and oral manifestations of systemic disease. Designed for students considering periodontology as a specialty. Counseling is provided for postdoctoral education. GER DEVL.

184A-B. Advanced Pedodontic Appliance Laboratory. (0.5) W. Sp.; Prerequisite: Admission to the course and approval of Clinic Review Committee and chairperson of the division. Lecture 1 hour, Lab 5 hours.

Angebahen

Demonstrations followed by individual assignments. An overhead assignment will be provided for each session.

189. 01-C. Clinical Practice in Periodontics. (0.9) F. W. Sp.; Prerequisite: Periododontics 184A-B and completion of clinical periodontics and all third-year clinical and didactic courses in operative dentistry as required by Clinic Review Committee. Clinic variable.

M. Morris and Staff

Course provides additional clinical experience in pedodontics.

199. 02-B-C-D. Community Periodontics. (0.4) F. W. Sp.; Prerequisite: Completion of clinical requirements for graduation or approval of Clinic Review Committee. Clinic 0.20 hours.

M. Morris, Stark and Staff

An elective clinical course in pedodontics.

Students provide care for children at selected migrant farm communities while providing preventive care, comprehensive operative procedures including pulp therapy and periodontal surgery, and processing needed radiographs. GER DEVL.

199. Clinical Periodontics. (0.5) W. Sp.; Prerequisite: Periododontics 199 01-B-C-D and clinic variable. Lab 0.75 hours.

Taggart, R. S. Miller

Introduction to the clinical problems of periodontal disease under the direct supervision of faculty.

110. Periodontics—Recognition. (3) Sp.; Prerequisite: Periododontics 199 01-B-C-D. Armitage

Introduction to the recognition and diagnosis of inflammatory periodontal disease. The pathogenesis of periodontal disease is discussed from clinical, histopathological, and biochemical points of view. PERIODONT.

119. Periodontal Therapy (Introduction). (3) Sp.; Prerequisite: Periododontics 199 01-B-C-D. Armitage

Taggart

Introduction to the techniques of root planing, gingival scaling and root planning. PERIODONT.

121. Periodontal Therapy (Introduction). (3) 1st Prerequisite: Periodontology 119 01-B-C-D. Lecture 1 hour.

Armitage

Introduction to the rationale and objectives of periodontal therapeutic procedures. Also considered are the recognition and treatment of periodontal disease in children, acute periodontal emergency considerations in restorative dentistry. PERIODONT.

129. Clinical Periodontics. (0.4) F. W. Sp.; Prerequisite: Periododontics 119 01-B-C-D and clinic variable. Lab 0.75 hours.

Taggart

Introduction to clinical techniques in oral prophylaxis including plaque control, scaling, root planing. During fall and winter quarters, supervised extractions for children and senior patients. The spring quarter is utilized for treatment of their own patients. PERIODONT.

131. Periodontics. (1) F. Prerequisite: Periodontology 121 01-B-C-D. Lecture 1 hour.

Taggart

The demonstration and rationale of surgical management of periodontal lesions.

150. Periodontics. (2) 1st Prerequisite: Demonstrative 2 hours.

Taggart

Introduction to the oral hygiene problems in the primary and permanent dentitions of the patient. The mouth is cleansed and the methods available to the dentist and auxiliaries in the case of a new patient to self-care.

160. Periodontics. (1) F. Prerequisite: Periodontology 150 01-B-C-D. Lecture 1 hour.

S. R. Miller

Classification of periodontal diseases and their treatment methods. The principles of pathology are correlated with therapeutic procedures. Periodontal disease care and hygiene in dental practice. PERIODONT.

161. Periodontics. (1) W. Prerequisite: Periodontology 160 01-B-C-D. Lecture 1 hour.

Taggart

The demonstration and rationale of surgical treatment of periodontal lesions. The role of the dental hygienist in dental practice, process of referral, and aid in treatment of periodontal diseases. PERIODONT.

170A-B. Histopathology of the Periodontal. (2.2 E) W. Sp.; Prerequisite: Periododontics 170A 01-B-C. Clinic 0.60 hours.

Diemen

Dynamics of inflammation and its role in the periodontal tissues. PERIODONT.

171A-B-C. Clinical Periodontics. (0.8-4) E. W. Sp.; Prerequisite: Enrollment in periodontic program. Clinic 12 hours.

Shibata, E. Green and Staff

Clinical procedures in peridontal therapy. This course is offered only during clinical experience. PERIODONT.

173. 02-B-C-D. Periodontic Therapy. (4-4-4) F. W. Sp.; Prerequisite: Periodontics 171A 01-B-C. Clinic 12 hours.

Shibata, E. Green and Staff

Advanced clinical procedures in periodontal therapy. PERIODONT.

177. 02-B-C-D. Periodontic Therapy. (2) SS.; Prerequisite: Periodontics 173 02-B-C-D. Clinic and Seminar 60 hours.

Shibata, E. Green and Staff

Advanced surgical techniques in management of periodontal lesions. PERIODONT.

174. Periodontics. (3) F. Prerequisite: D.S.S. degree. Seminar 1 hour.

Parr

A seminar to discuss and evaluate the problems common to the specialties of periodontics and periodontology. PERIODONT.
214. Advanced Aspects of the Kinetics of Drug Absorption and Disposition. (3) S, W. Prerequisite: Pharmacology 504A. 3 credits. Lec. 3 hrs. Lab. 2 hrs. 3 hrs.

217. Advanced Pharmacology. (5) S. Prerequisite: Psychology of drugs and solids and solids. PHARM CHEM.

218A. Advanced Pharmacology. (3) F. Prerequisite: Physical chemistry or consent of instructor. Lecturer 5 hours. Offered in alternate years. 1981-82.

221. Seminar in Pharmacology. (2) F, W, Prerequisite: Consent of instructor. Lecturer 2 hours. Staff.

225. Seminar in Pharmacology. (2) F, W. Prerequisite: Consent of instructor. Lecturer 2 hours. Staff.

228B. Advanced Pharmacology. (3) F. Prerequisite: Physical chemistry or consent of instructor 2 hours. Offered in alternate years. 1981-82.

230A. Spectroscopy. (5) S. Prerequisite: Physical chemistry. Lecturer 2 hours. Offered in alternate years. Not offered 1981-82.

230B. Spectroscopy. (3) S, F. Prerequisite: Chemistry 162 recommended. Lecturer 3 hours.

Theory and application of nuclear magnetic resonance, mass spectrometry, and biological spectros. Staff.


300. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Lecturer 1 hour. Staff.

A program involving the presentation of core material in pharmacology in chemical and biological pharmacology. The program is designed to graduate students and examinations is by a series of cumulative examinations. PHARM CHEM.

218A. Seminar in Pharmacology. (5) S, F. Prerequisite: Gradually standing in the Department of Pharmacology and CHEM 1 hour.

A series of weekly research reports on medical chemistry given by visiting lecturers, faculty, and advanced graduate students. PHARM CHEM.

221. Seminar in Pharmacology. (2) F, W, Prerequisite: Consent of instructor. Lecturer 2 hours. Staff.

225. Seminar in Pharmacology. (2) F, W. Prerequisite: Consent of instructor. Lecturer 2 hours. Staff.

228B. Advanced Pharmacology. (3) F. Prerequisite: Physical chemistry or consent of instructor 2 hours. Offered in alternate years. 1981-82.

230A. Spectroscopy. (5) S. Prerequisite: Physical chemistry. Lecturer 2 hours. Offered in alternate years. Not offered 1981-82.

The theory and application of nuclear magnetic relaxation, vibrational and optical spectroscopy. Opti- cal rotation and circular dichroism. Staff.

230B. Spectroscopy. (3) S, F. Prerequisite: Chemistry 162 recommended. Lecturer 3 hours.

240. Radiochemical Synthesis. (1, 2, 3, 4) F, W, Prerequisite: Consent of instructor 3 hrs. Lab 6 hours. Staff.

Theoretical principles of radiation. Staff.

241. Radiochemical Analysis. (1, 2, 3) F, W, Prerequisite: Consent of instructor Lab 1 hour. Staff.

Experimental techniques related to various techniques used in the study of radioactive species, biochemical compounds, and drugs, and radio- and carbones. PHARM CHEM.

242. Radiotracers Methodology. (1) W, Prerequisite: Advanced Organic Chemistry and permission of the graduate advisor.

245. Chemical and Biological Effects of Radioisotopes. (1) S, W, Prerequisite: CHEM 162 or consent of instructor 1 hour. Staff.

Discussions on the theory and principles in the use of radioisotopes as tracers in biological systems. Emphasis is on laboratory exercises and data evaluation. PHARM CHEM.

248. Chemical and Biological Effects of Radioisotopes. (1) S, W, Prerequisite: CHEM 152 or 162, or consent of instructor 1 hour. Staff.

Peng, W. J., Harris, Painter Effects of ionizing radiation on chemical and biological systems will be discussed. PHARM CHEM.


The research program in pharmaceutical, biological and biomedical sciences. Staff.


300. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

302. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

305. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.


A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.


A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

308. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

309. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

310. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

311. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

312. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

313. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

314. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

315. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

316. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.


A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

318. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

319. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.

320. Research Conference in Pharmacology. (1) S, W, F. Prerequisite: Consent of instructor 1 hour. Staff.

A group discourse and laboratory work in the design of the master's thesis under the direction of the graduate advisor. PHARM CHEM.
150. Marketing. (4) W. Lecture 4 hours.

An analysis of the marketing functions that facilitate the flow of pharmaceutical products from manufacturer to consumer, and of the decision-making processes of marketing institutions. Emphasis is given to the environmental factors affecting marketing decisions.

154. Community Pharmacy Management. (4) Sp. Prerequisite: Basic economics or consent of instructor. Library research and directed writing under supervision of a member of the faculty with the approval of the chairman of the department.

155. Laboratory Project in Pharmacy. (1-5) F. W.

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

160A-B-C. Legal Problems Related to Bioethics (1-2-1). W. Prerequisite: Third-year standing. Pharmacy Administration and at least 16 credits in bioethics. Does not count to 1680, but completion of entire sequence is not required.

J. R. Nielsen
Conducted in cooperation with law stu-
dents who are enrolled in bioethics. Empha-
sis is on the legal implications arising therefrom.

158. Supervised Study in Pharmacy Admin-
istration. (1-5) F. W.

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

Physical Therapy

160. Gross Anatomy. (6) Sp. Prerequisite: Completion of course prerequisites for ad-
mission to the University and the Curriculum in Physical Therapy. Open only to students enrolled in the Curriculum or consent of pro-
director. Lecture 5 hours. Lab 9 hours.

A fundamental building block of physical therapy, this course presents the gross struc-
ture of the human body studied from a reg-
ional and systemic correlation by means of dissection, demonstration, surface and cross section techniques.

101. Pathology. (3) F. Prerequisite: Comple-
tion of course work in anatomy. Open only to students enrolled in the Curriculum or consent of program director.

Lunoe
This course begins a four quarter sequence presenting skin, tissue, and organ anatomy and histo-

tics and tests and procedures for evaluation of normal and abnormal function of the neuromusculoskeletal system. PHYS THER
104B. Physical Therapy Procedures. (5) P. prerequisite: Completion of coursework in summer term and fall quarter. Open only to students enrolled in the Curriculum or consent of program director. Lecture 2 hours, Lab 8 hours.

Lunne

Continuation of Physical Therapy Procedure. 104A. Introduction to nervous, neuromuscular, physiological, bio- mechanical, and psychological factors related to musculoskeletal dysfunction. Theory, physiological and functional ramifications of patho- logical conditions and treatment of the cardiovascular, pulmonary, and inter- muscular systems. PHYS THER

104D. Physical Therapy Procedures. (3) S. prerequisite: Completion of coursework in summer term, fall and spring quarter. Open only to students enrolled in the Curriculum or consent of program director Lecture 1 hour, Lab 8 hours.

Lunne

Continuation of Physical Therapy Procedure. 104B. Basic neuropsychological and neuroanatomical principles of normal and pathological muscle function. Various neurophysiological and neuromotor therapeutic concepts of evaluation and treat- ment for patient with neurological dysfunc- tion. Projects and field work are included. PHYS THER

105. Physical Medicine Rehabilitation. (4) S. prerequisite: Completion of coursework in summer term. Open only to students enrolled in the Curriculum or consent of program director. Lecture 3 hours.

Pincus

Course presents the philosophy, diagnosis and management of chronic diseases and the multiple handicapped per- son. Pertains specifically to clients with brain damage, spinal cord injuries and cerebrovascular acci- dents. PHYS THER

106A. Specialty Management of Medical Disease. (3) S. prerequisite: Completion of coursework in summer term. Open only to students enrolled in the Curriculum or consent of program director Lecture 3 hours.

F. Schiller, S. Kaufman

Medical management of problems con- cerning specialties of pediatric physical therapy. Emphasis is on the specifics of the child's condition and the specific needs that make the child different from the adult. PHYS THER

106B. Specialty Management of Medical Disease. (3) S. prerequisite: Completion of coursework in summer term and fall quarter. Open only to students enrolled in the Curriculum or consent of program director Lecture 4 hours.

G. Gilroy

Study of athletic injuries and the treatment of athletic injuries. Topics include the diagnosis and treatment of athletic injuries. PHYS THER


Monie

This elective course is designed to provide physical therapists with information on the more common human congenital defects. Environmental and genetic factors that pro- duce malformations are considered and possi- ble mechanisms discussed. ANATOMY 410A. Clinical Clerkship. (7) S. prerequisite: Consent of instructor. PHYS THER

109A. Principles of Professional Practice and Administration. (4) W. prerequisite: Completion of coursework in summer term and fall quarter. Open only to students enrolled in the Curriculum or consent of program director Lecture 4 hours.

G. Gilroy

Study of attitudes and obligations of the profession of physical therapy. Emphasis is on ethical issues of the profession, and the responsibilities of the physical therapist. PHYS THER

109B. Principles of Professional Practice and Administration. (4) S. prerequisite: Consent of instructor. PHYS THER

110. Integrative and Nutritive Systems. (6) S. prerequisite: College level biology, chemistry, and physics, or consent of instruc- tor. Lecture 5 hours. Conference 3 hours.

111. Anatomy Introduction to organ systems with emphasis on nervous, endocrine, circulatory, respira- tory, and alimentary function in verte- brates. Importance of organ systems for the interpretation of pathophysiology. Fundamental cell processes are also discussed, emphasizing differentiated function. PHYS THER

120. Mammalian Physiology. (2) S. prerequisite: Physiology 121 for students in School of Pharmacy; may be taken separately by graduate students with consent of instructor only. Lecture 2 hours.

121. Mammalian Physiology. (6) S. prerequisite: Consent of instructor. Lecture 6 hours. Lab 4 hours. Conference 2 hours.

122. Neuroscience for Pharmacy Students. (3) S. prerequisite: Consent of instructor. Lecture 3 hours Lab 3 hours.

Libet, A. Kelly, Copenhagen. "Neuroscience for Pharmacy Students."

Course is designed primarily for students in the School of Pharmacy. The course will present an integrated approach to the neurological basis of normal and pathological function and the theoretical bases in which these occur.

150. Research in Physiology. (3) per week. I, II, S. prerequisite: Consent of instructor. Lecture 2 hours, Lab to be arranged.

Gandng and Staff

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

199. Laboratory Project in Physiology. (1-5) S. prerequisite: Consent of instructor. Lecture 1-5 hours.

Gandng and Staff

A laboratory research project under direc- tion of a member of the faculty with the approval of the chairperson of the department.

200. Tutorial in Physiology. (0) S. prerequisite: Consent of instructor.

Gandng and Staff

Directed reading organized in seminar or tutorial format on the physiology of respiratory systems under supervision of a member of the faculty.

Pincus

107. Physical Medicine Rehabilitation. (4) S. prerequisite: Completion of coursework in summer term. Open only to students enrolled in the Curriculum or consent of program director. Lecture 2 hours.

Pincus

Course presents the philosophy, diagnosis and medical management of chronic diseases and the multiple handicapped per- son. Pertains specifically to clients with brain damage, spinal cord injuries and cerebrovascular acci- dents. PHYS THER

108. Basic Medical Procedures. (2) S. prerequisite: Completion of coursework in summer term, fall and winter quarters for PHYS THER Lecture 1 hour, Lab 2 hours.

G. Gilroy

Presentation of basic procedures for total and emergency care of the patient. Emphasis on the methods and techniques of emergency intervention, sterile techniques and therapist-patient interaction concerned with confidential matters. PHYS THER

410A. Clinical Clerkship. (7) S. prerequisite: Consent of instructor. PHYS THER

Students begin clinical clerkship in physical therapy facilities. Under close supervision, appropri- ate and indicated procedures of total patient treatment are performed. Gradually, full re- sponsibility for a full patient load for particu- lar facility is assumed. Students present case- reports and write case reports. PHYS THER

410B. Clinical Clerkship. (15) S. prerequisite: Completion of coursework in summer term, fall, winter and spring quarters. Students enroll in Course 104B in the Curriculum or consent of program director.

G. Gilroy

Course is required for and permitted to graduate students only. Students provide patient care under direct supervision of an instructor. Students submit case reports, present semi-monthly seminars and scheduled campus seminars. PHYS THER

100. Organ System Physiology. (6) S. prerequisite: Anatomy 100 and 302, and current enrollment in Biomechanics 100A or consent of instructor. Lecture 5 hours. Lab 4 hours. Conference 2 hours.

Mines, Goerke, Kellogg

Normal function of the cardiovascular, respira- tory, renal, and gastrointestinal systems and the metabolic functions of the body as a whole are studied in lectures, conferences, laboratory, and oral and written communications, and clinical illustrations. PHYS THER

101. Endocrinology. (4) S. prerequisite: Physiology 109A and 200, or consent of instructor. Lecture 5 hours, Lab 3 hours.

M. Dillman

The structure and function of the endo- crine glands and selected aspects of endo- crine pharmacology and pathology are studied in lectures, demonstrations, and clinical conferences. PHYS THER

110. Integrative and Nutritive Systems. (6) S. prerequisite: College level biology, chemistry, and physics, or consent of instruc- tor. Lecture 5 hours. Conference 3 hours.

111. Anatomy Introduction to organ systems with emphasis on nervous, endocrine, circulatory, respira- tory, and alimentary function in verte- brates. Importance of organ systems for the interpretation of pathophysiology. Fundamental cell processes are also discussed, emphasizing differentiated function. PHYS THER

120. Mammalian Physiology. (2) S. prerequisite: Physiology 121 for students in School of Pharmacy; may be taken separately by graduate students with consent of instructor only. Lecture 2 hours.

121. Mammalian Physiology. (6) S. prerequisite: Consent of instructor. Lecture 6 hours. Lab 4 hours. Conference 2 hours.

122. Neuroscience for Pharmacy Students. (3) S. prerequisite: Consent of instructor. Lecture 3 hours Lab 3 hours.

Libet, A. Kelly, Copenhagen. "Neuroscience for Pharmacy Students."

Course is designed primarily for students in the School of Pharmacy. The course will present an integrated approach to the neurological basis of normal and pathological function and the theoretical bases in which these occur.

150. Research in Physiology. (3) per week. I, II, S. prerequisite: Consent of instructor. Lecture 2 hours, Lab to be arranged.

Gandng and Staff

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

199. Laboratory Project in Physiology. (1-5) S. prerequisite: Consent of instructor. Lecture 1-5 hours.

Gandng and Staff

A laboratory research project under direc- tion of a member of the faculty with the approval of the chairperson of the department.

200. Tutorial in Physiology. (0) S. prerequisite: Consent of instructor.

Gandng and Staff

Directed reading organized in seminar or tutorial format on the physiology of respiratory systems under supervision of a member of the faculty.
210. Physiology of Vision. (2) 5. Pre- requisi te: Anatomy 103 or Physiology 110 or equivalent, or consent of instructor. 2 hours. Course will not be offered for fewer than four students.

K. Brown

Study of mechanisms underlying vision. Consideration is given to the development and anatomy of the visual system, but the emphasis is on nervous events underlying the conversion of visual stimuli into nerve impulses and their transmission through the visual system to the photoreceptors in the retina.

PHYSIOLOGY 101: Normal and Pathological Topics in Physiology. (1) 5. W. Prequisite: A minimum of six units of introductory physiology Seminar 1 hour. Boothman

This seminar discusses selected topics in cellular and integrative physiology. Reading lists are drawn from primary and secondary sources. PHYSIOLOGY 201


J. A. Williams

Discussion of current literature relative to the mechanism of hormone synthesis, packaging, and release. PHYSIOLOGY 202: Advanced Cardiovacular, Renal, and Pulmonary Physiology. (2) 5. W. F. Prequisite: Physiology 100 or equivalent. Lecture and laboratory.

Ganong and Staff

For graduate students engaged in research for the thesis for the master's degree. PHYSIOLOGY 299. Dissertation. (0-5) 5. W. F. Prequisite: Advancement to candidacy and permission of the graduate advisor.

Ganong and Staff

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

Participatory seminars utilizing role playing, open discussions, and exercises to study interpersonal relationships in dentistry. Topics covered include active listening, effective ways of communicating, the role of the dentist in conflict-solving. GEN DENT

180.11 Community Dental Health Methods. (0) 5. W. F. Prequisite: Seminar and Clinic variable.

Ino, J. L. Students work in the Grand Rapids Health Center, providing dental care in a community setting of comprehensive health care. GEN DENT

180.02 Community Health Methods. (0) 5. F. W. F. Seminar and Clinic variable.

Ino, J. L. Students work at the South of Market Health Center, a satellite to SFHC, providing dental care in a community setting of comprehensive health care. GEN DENT

199. Laboratory Project in Preventive Dentistry and Community Health. (1-5) F. W. Prequisite: Consent of instructor.

Wycoll, Silverstein

A laboratory research project under direct supervision of the student and with the approval of the chairperson of the department. GEN DENT

Psychiatry 100A. Psychological Basis of Medicine. (2) F. Lecture 1 hour: Horowitz

Introduction to the basic psychological principles underlying response to the stresses of modern life and their impact on mental health. Development, death and dying, and various types of doctor-patient relation- ships. PSYCHIATRY

100B. Social, Cultural and Biological Bases of Illness Behavior. (1) W. Seminar 2 hours.

Brodky, H. Goldman

Presentation of the social and cultural factors that affect patients' health and illness behavior when well, when they fear illness, when they are ill and coping with illness. Recovery Acquaints students with several of the major themes in the study of the brain and behavior. PSYCHIATRY

110. Core Clerkship in Psychiatry at UCSC. (15) F. W. Prequisite: Consent of instructor.

Boothman and Staff

Participation, with supervision of attending physicians, in the Department of Psychiatry in psychiatric assessment, treatment, and after-care of adult or child patients or outpatients. Seminars, assigned reading and case presentations may be required. PSYCHIATRY

110.02. Clinical Clerkship. (15) per week

Su, F. W. Prequisite: Consent of Department of Psychiatry.

Boothman

Clinical clerkship in off-campus hospitals, approved clinical agencies, and the Department of Psychiatry. PSYCHIATRY

Clinical clerkships based in a variety of community settings. Course includes work with patients and families and emphasizes preventive, educational, and community-based services, especially to underprivileged rural and inner-city populations. Clinical settings vary and are assigned at the discretion of the Department of Psychiatry.

G. Solomon

Clinical clerkships based on a variety of community settings. Course includes work with patients and families and emphasizes preventive, educational, and community-based services, especially to underprivileged rural and inner-city populations. Clinical settings vary and are assigned at the discretion of the Department of Psychiatry.

Finke and Staff

Guided reading and research in human development. Work may focus on culture and personality studies, social psychology of human development, social roles, and the role of values, adaptive processes across the life span, and physical, cognitive, and psychosocial development and aging courses. PSYCHOLOGY

160.63. Block Elective in Human Sexuality, 1 unit (F. W. Sp. Prequisite: Consent of Department of Psychiatry._agency: Valcom and consent of Department of Psychiatry.

Gendel

An introduction to social functioning, sexual and gender identity and their treatment, the spectrum of human sexual experience, and social and legal values. Consent and/or preclear will be required. PSYCHOLOGY

160.01. Psychopathology of Speech and Language, 1 unit (F. W. Sp. Prequisite: Consent of Department of Psychiatry. Lecture 1 hour. Lab 5 hours.

Ostwald

A clinical course focusing on speech and language pathology. Success in this course depends on previous experience with psychiatric patients and interest in specific problems of psychiatrically impaired individuals. Consent of department. Consent of community resource people will be involved. PSYCHOLOGY

170.01. Introduction to the Study of Behavior, 1 unit (12.5 F. W. Sp. Prequisite: Consent of Department of Psychiatry. Lecture 2 hours. Lab 6-15 hours.

Amini

Practical experience in psychotherapy work with outpatients to increase understanding of psychopathology, psychoanalysis, and psychiatry. Students are assigned patients under supervision of a member of the faculty. Assigned reading seminars. Consent of faculty. PSYCHOLOGY

170.03. Behavioral Specialist Pathway Elective. 2.6 F. W. Sp. Prequisite: Psychoanalysis, Pathology, and Behavior, Consent of Department of Psychiatry Lecture 2-6 hours.

H. Goldman

Students in the Behavioral Specialist Pathway elect individual or group study of a topic not included in other formal courses. Supervised research, research, fieldwork, and clinical assignments are given in accordance with the student's level of interest and experience. PSYCHOLOGY

170.00. Research in Human Sexuality. 2 units (1 unit of related seminar required) 2 units (1 unit of related seminar required) 2 units (1 unit of related seminar required).

Ostwald

Collaboration or directed research in various topics related to human sexuality. PSYCHOLOGY

170.07. Mental Health Aspects of Social, Physical, and Sensory Deprivation. 2 units (W. W. Sp. Prequisite: Consent of Department of Psychiatry Lecture 2 hours. Lecture 1 hour. Lab 5 hours.

Gendel

A clinical course focusing on speech and language pathology. Success in this course depends on previous experience with psychiatric patients and interest in specific problems of psychiatrically impaired individuals. Consent of department. Consent of community resource people will be involved. PSYCHOLOGY

197.05. Laboratory Project in Psychiatry, 2.5 F. W. Sp. Prequisite: Consent of Department of Psychiatry.

L. J. Epstein and Staff

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

200A-B. C.D. E.F.-G.H.-I. Community Mental Health Practicum: Community Mental Health Practicum, 2.5 F. W. Sp. Prequisite: Consent of Department of Psychiatry. Other students may enroll with consent of instructor only. Lecture 1-5 hours. Lab 6-15 hours.

Waramer

 Supervised practicum in diagnostic and treatment planning for psychiatric outpatient in community settings. Students are responsible for evaluation, psychosocial, diagnosis, and treatment planning, psychiatric social work, and community mental health system. Seminar in diagnosis and treatment planning, student learning, and special problems. Other students may enroll with consent of instructor only. Lecture 15 hours. Lab 45 hours.

Kolodny

Exploration of psychiatric and psychological issues related to mental health for women in psychiatric care. Courses includes second year. May not be used toward requirements in psychiatric care. Students interested in evaluating issues in psychiatric care. Courses includes second year. May not be used toward requirements in psychiatric care. Students interested in evaluating issues in psychiatric care.

L. J. Epstein, Weinsheim

Laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. PSYCHOLOGY

210.00. Supervised Practicum in Psychiatry, 5 units (2.5 F. W. Sp. Prequisite: Consent of Department of Psychiatry.

L. J. Epstein and Staff

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

210.00. Supervised Practicum in Psychiatry, 5 units (2.5 F. W. Sp. Prequisite: Consent of Department of Psychiatry.

L. J. Epstein and Staff

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

220A-C. Mental and Psychological Issues in Patient Care, 3.5-3 units (F. W. Sp. Prequisite: Graduation standing in the Doctor of Mental Health Program. Other students may enroll with consent of instructor only Lecture 15 hours. Lab 45 hours.

220A-C. Mental and Psychological Issues in Patient Care, 3.5-3 units (F. W. Sp. Prequisite: Graduation standing in the Doctor of Mental Health Program. Other students may enroll with consent of instructor only Lecture 15 hours. Lab 45 hours.

S. B. Schwartz

Under supervision, students assume responsibility for psychiatrically impaired patients in the hospital. Courses includes second year. May not be used toward requirements in psychiatric care. Students interested in evaluating issues in psychiatric care. Courses includes second year. May not be used toward requirements in psychiatric care. Students interested in evaluating issues in psychiatric care.

230.00. Supervised Practicum in Psychiatry, 5 units (2.5 F. W. Sp. Prequisite: Consent of Department of Psychiatry.

L. J. Epstein and Staff

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

Pelletier
Integration of biofeedback with psychotherapy and other treatment procedures; clinical applications and evaluation. Criteria for selection and evaluation of psychological factors in stress disorders. Biofeedback instruments are demonstrated extensively.

433A-B. Special Seminar in Physiology and Psychobiology. (1-3) F, Sp. Seminar 1 hour per week. Equivalent to Psychology 130.2.

Bull
An ongoing seminar devoted primarily to the research interests of the group studying human error related potentials. Course includes discussion of recent experimental and methodological contributions by staff and postdoctoral fellows.

434A-B. Cerebral Hemispheric Specialization and Integration. (2) Sp. Prerequisite: understanding of basic psychology and ability to comprehend cognitive psychology; intended for advanced students. Consent of instructor. Seminar 2 hours. Equivalent to Psychology 188.02.

Galin
Group discussions of readings in the formal area of psychobiology and psychosomatic medicine. The seminar includes readings of original material, films, and discussions of new developments in the field.

435. The Individual and Society: Psychoanalysis and Social Science. (2) W. Prerequisite: Background in psychodynamic and sociological understanding. Seminar 2 hours. Equivalent to Psychology 247.248.

R. S. Wallerstein, Smeezer
Exploration of the more successful articulation between the individual and societal problems, making use of classical theoretical statements, studies of social systems, and therapy. The seminar includes presentations and problem-solving groups as well as an analysis of group therapy techniques and the impact of therapy on the individual.

440. Impact of Legislation and Health Insurance on Practice. (2) F. Seminar 2 hours. Equivalent to Psychology 134.01.

Dorken
Review of the nature and types of health insurance, including economic forces in the United States, and the role of the national health insurance. Seminar is designed to explore the impact of these forces on the practice of psychology.

441. Social and Psychological Factors in Medicine. (2) Sp. Seminar 2 hours. Equivalent to Psychology 188.15.

J. B. Henderson
Overview of the major contemporary issues in the field of social psychology, focusing on factors that influence health care and health care delivery. The seminar includes presentations on current research and the impact of these factors on the delivery of health care.

446. Basic Psychoanalytic Concepts II. (2) F. Seminar 2 hours. Equivalent to Psychology 188.12.

Amini
The seminar focuses on the theoretical and practical aspects of psychoanalytic theory, including the development of the psychoanalytic unconscious, the role of the therapist, and the relationship between the client and therapist.

447. Psychotherapy Case Conference. (2) F. Seminar 2 hours. Equivalent to Psychology 188.12.

J. E. Epstein, Motto
The seminar is designed to provide an opportunity for students to participate in the development of case formulations and to learn about the psychoanalytic approach to case presentation.

448. Psychotherapy and Pathobiography. (3-5) F, W. Seminar 2-3 hours. Equivalent to Psychology 188.12.

Zegans
The seminar is designed to provide an opportunity for students to participate in the development of case formulations and to learn about the psychoanalytic approach to case presentation.

450. Clinical Psychotherapy. (11) F, W. Prerequisite: Consent of instructor. Seminar 1 hour.

Amini
The seminar focuses on the theoretical and practical aspects of psychoanalytic therapy, including the development of the psychoanalytic unconscious, the role of the therapist, and the relationship between the client and therapist.

456. Child Psychiatry. (11 per week) Su, F. W. Prerequisite: Consent of instructor in the second year of child psychiatry.

All students in child psychiatry are required to participate in this seminar.

1. Phillips
Residents in child psychiatry are responsible for the diagnosis and treatment of children with psychological problems. They are to complete a therapeutic case with their parents under the supervision of the senior staff of the Child Psychiatry Service. Weekly case conferences and feedback sessions take place at regular intervals.

470. Psychotherapy Case Conference. (2) F. Seminar 2 hours. Equivalent to Psychology 188.12.

J. E. Epstein, Motto
The seminar is designed to provide an opportunity for students to participate in the development of case formulations and to learn about the psychoanalytic approach to case presentation.

475. Working Clinically with Dreams from the Jungian Perspective. (1) F. Prerequisite: Consent of instructor. Seminar 1 hour.

Richman
The seminar is designed to provide an opportunity for students to participate in the development of case formulations and to learn about the psychoanalytic approach to case presentation.

485. Forensic Psychiatry. (12) W. Prerequisite: Consent of instructor. Seminar 1 hour.

B. Diamond, J. L. Epstein, Terr
The seminar focuses on the theoretical and practical aspects of forensic psychiatry relevant to the practice of the clinician. Topics covered include the role of the forensic Psychiatrist in the courtroom, and criminal and constitutional responsibilities.

499. Clinical Case Conference: Jungian Psychology. (2) F. Seminar 2 hours. Equivalent to Psychology 188.12.

All students in clinical case conference are required to participate in this seminar. Priority given to second-year residents.

Klaw
An elective continuous case conference focused on transference and countertransference from a Jungian perspective. Major theoretical concepts will be discussed in context of the cases being presented.

640. Treatment of the Borderline Character. (15) F, W. Prerequisite: Open to second-year students only with consent of instructor. Seminar 1 hour. Course given at San Francisco Psychoanalytic Institute.

Orcmeland
The seminar is designed to provide an opportunity for students to participate in the development of case formulations and to learn about the psychoanalytic approach to case presentation.

650. Theory of Psychotherapy. (3) F, W. Prerequisite: Consent of instructor. Seminar 1 hour.

Horewitz
Discussions of issues in clinical research, focusing on questions in clinical research design in the study of psychological processes. The seminar will focus on the role of psychotherapy in the management of psychological and emotional disorders.

660. Group Therapy Videotape Demonstration. (3) F, W. Prerequisite: Consent of instructor. Seminar 1 hour.

D. Farrel
Demonstration of group therapy to be viewed by video. This seminar is intended to serve as a focus for the discussion of theory and technique in group therapy.


Binger, L. Phillips
The seminar is designed to provide an opportunity for students to participate in the development of case formulations and to learn about the psychoanalytic approach to case presentation.

Oswald Diagnosis and treatment of the problems associated with speech, hearing, or language difficulty. Supervised clinical work with selected patients according to resident's level of experience. Instruction with such audiovisual and communication media as manual signing and voice printing.


A. Simon, Keller, J. L. Epstein Seminar for residents and fellows in psychiatry I. It will cover adult and aging populations.

472. Problems in Psychotherapy. (1) W. Lecture 15 hours.

R. S. Wallerstein Problems in psychotherapy conducted within a psychoanalytic framework. Topics include treatment indications, goals, motivation and treatability, resistance and defense, expenditure and countertransference, and dreams in psychotherapy. Third party involvement, emergency and hospitalization, termination of treatment, management, notation, and recording.

473. Work With the Seriously Disturbed Patient. (1) F W. Seminar 1 hour. Consent for second-year residents in psychiatry.

S. A. Schwartz An approach to individual psychotherapy with more severely disturbed patients in preparation for analysis and treatment following on a weekly basis. Psychiatry.


475. Self Administration of Psychoactive Drugs. (2) W. Lecture 2 hours. Exempt.

J. Bachman Course is designed to acquaint medical students with some psychotherapeutic and psychopharmacological considerations. Topics include psychotherapeutic and psychopharmacological considerations in susceptible people, and rapport and augmentation in the use of the drugs. Psychiatry.


H. K. Stone Seminar focuses on psychosomatic medicine, including an introduction to the concepts of the relationship of mind and body. Issues of mental and physical disorders.


R. K. Stone Seminar introduces professional issues. Emphasis is on current medical practice, including techniques, ethical considerations, current medical issues, and issues related to future trends in medicine.


R. L. Binder Examination of the importance of crisis intervention and its role in psychiatric and psychological interventions.

480. Politics of Other Cultures. (2) W. Seminar 2 hours. Consent.

J. Donn Agency representatives identify the basic assumptions about man and the world, the resultant psychologies resultant societal behavior, and possible applications to psychiatry.

481. Holistic Approaches to Health. (2) W. Lecture 2 hours. Consent for second-year residents in psychiatry.

Peltier, P. Lee Seminar focuses on holistic approaches to health, including alternative medicine and the mind-body relationship.

482. Analysis of the Therapeutic Alliance. (2) W. Seminar 2 hours. Consent for second-year residents in psychiatry.

Appelgren A study of the development and changes in psychological functions from birth to senescence and the role of growth relevant to psychological functions and considered in the light of observational data. Psychiatry.


D. Morrison, S. Friedlander Seminar focuses on the research methods used in the study of children psychology. Topics include introduction to the use of research methods, the design of experiments, and the application of statistical techniques.

484. Medical Decision Making. (2) W. Lecture 2 hours. Consent for second-year residents in psychiatry.

D. Morrison, S. Friedlander Seminar focuses on the decision-making process in medicine. Topics include introduction to decision-making, the role of medical decision-making, and the application of medical decision-making in clinical practice.

485. Brief Psychotherapy. (2) W. Seminar 2 hours. Consent for second-year residents in psychiatry.

S. H. Zuckerman Seminar focuses onbrief psychotherapy and its application in clinical practice. Topics include introduction to brief psychotherapy, the role of brief psychotherapy in the treatment of mental disorders, and the application of brief psychotherapy in everyday practice.

486. Advanced Psychotherapy. (2) W. Seminar 2 hours. Consent for second-year residents in psychiatry.

S. H. Zuckerman Seminar focuses on advanced psychotherapy and its application in clinical practice. Topics include advanced therapeutic techniques, the role of advanced psychotherapy in the treatment of mental disorders, and the application of advanced psychotherapy in everyday practice.

487. Medical Legal Issues. (2) W. Seminar 2 hours. Consent for second-year residents in psychiatry.

R. K. Stone Seminar focuses on medical legal issues and their implications for medical practice. Topics include introduction to medical legal issues, the role of medical legal issues in the practice of medicine, and the application of medical legal issues in everyday practice.

488. Ethics in Psychotherapy. (2) W. Seminar 2 hours. Consent for second-year residents in psychiatry.

S. H. Zuckerman Seminar focuses on ethics in psychotherapy and its application in clinical practice. Topics include introduction to ethics in psychotherapy, the role of ethics in psychotherapy in the treatment of mental disorders, and the application of ethics in psychotherapy in everyday practice.

489. Psychotherapy Theory and Practice. (2) W. Seminar 2 hours. Consent for second-year residents in psychiatry.

S. H. Zuckerman Seminar focuses on psychotherapy theory and practice and its application in clinical practice. Topics include introduction to psychotherapy theory and practice, the role of psychotherapy theory and practice in the treatment of mental disorders, and the application of psychotherapy theory and practice in everyday practice.
180. Psychosocial Care of the Dying Pa

Garfield
Models for dealing with psychosocial is
essues involved in caring for the dying patient. Emphasis will be based upon issues em-
terred by the health professional and patient from diagnosis through death. Course is in-
tended for medical, nursing and mental health students. PSYCH 400.


Plainfield
Weekly discussions in which students’ cli
case problems are analyzed by dynamic applica-
tion of behavioral theory. GEN DENT.

180.02 Psychological Aspects of Treat-
ment Planning. (I. Sp. Seminar hour. 2 hours. Consent of instructor. J. B. Henderson)

This course integrates students’ basic train-

ing in the specific field of psychodynamics with knowledge of the psychological con-

siderations necessary to individualize treat-

ment planning for patients. Students will be

planned to the practitioners’ awareness of the unique needs of patients. GEN DENT.

180.03 Advanced Psychology for Dentist
Hygienists. (I. Sp. Seminar hour. J. B. Henderson)

Plainfield
Seminar discussions on the emotional as-

pects of interpersonal transactions among clients, instructor, therapists, and patients. GEN DENT.

180.04. Neuropsychological Mecha-

nisms of EEOG and Event-related Poten-

tials. (3, W. Prerequisite: Course in physical psychology or neuropsychology or consent of instructor. Lecture 1 hour. Seminar 2 hours. Equivalent to Psychology 476.)

Yingling
Course will examine the neuroanatomical and neurophysiological underpinnings of the generation and regulation of EEG and event-related potentials, their measure-
ment and clinical uses. Emphasis on the

nature and limitations of inferences concern-

ing mechanisms and severity of brain dis-

orders. PSYCH 476.

180.05. Stress and Burnout Among

Nursing Personnel. (2, 5, W. Garfield)

Garfield
Course will focus on a theoretical under-

standing of the origins of job stress and the

burnout syndrome, and on practical pro-

grammatic methods of reducing the stress

burden incurred by physicians and other

health care professionals. PSYCH 476.

180.06. Clinical Research Practicum in

Psychological Aspects of Medicine. Consent of instructor. (5, 3, W. Prerequisite: Experi-

ence and/or course work in either research meth-

dods or clinical theory and internship. Consent of instructor. Lab 4 hours. Seminar 2 hours. Equivalent to Psychology 478.)

Temosho
Practicum seminar offers the student the op-

portunity to "get hands on" experience in con-

tributing to the design and execution of clinical and ongoing clinical research studies in psychological aspects of behavioral medicine. Projects and supervisors will change each quarter. PSYCH 478.

180.07. Medical Decision Making. (2, 5, Sp. Lecture 2 hours. Equivalent to Medical In-

formation Science 203 and Psychology 486.)

F. J. Hoffman
Review of selected studies of decision analysis and judgment research in medical decision making. Subjective probabilities, confidence, bias, and diagnostic accuracy. Bayes optimal strategies, computer aided diagnosis, medical schools’ admission deci-

sion/judgments of clinical competence and admittance decision making.

180.08. Cerebral Hemispheric Spe-
cialization and Integration. (2, 5, Sp. Pre-
rerequisite: Consent of instructor. Backstager in neuropsychology, neuroanatomy, cognitive psychology, intended for medical students. Consent of instructor. Seminar 2 hours. Equivalent to Psychology 474.)

Blackwell
Consideration of psychological processes utilized in hemispheric specialization and inte-

grative methods for coping with practice in using these techniques. Course is designed to help students handle stress and apply such practices to management of patients. PSYCH 474.

180.08. Holistic Approaches to Health. (1, 5, Sp. Prerequisite: Consent of instructor. Seminar 2 hours. Equivalent to Psychology 484.)

Garin
Complementary strategies to the current biomedical effort may be developed from a critical, yet open-minded examination of the limits of current approaches to health, ancient systems of healing, biofeedback and self-regulatory therapies, self-care and mutual aid. PSYCH 484.

180.09. Self-Administration of Psychoac-

tics. Consent of instructor. Lab 2 hours. Equiva-

lent to Psychology 479.

J. Bachman
Course is designed to acquaint students with some psychopharmacological deter-

minants of control of instruction in a therapeutically meaningful model emphasizing psy-

chological factors in stress disorders. Bio-

feedback instruments are demonstrated and applied. Course is intended for clinical prac-

titioners. PSYCH 479.

180.10. Social and Psychological Factors in Medicine. (1, 5, 2, Spa. Seminar 1 hour. Equivalent to Psychology 480.)

J. B. Henderson
Overview of the major social and ap-

proaches in health education, focusing on chronic diseases and primary prevention of health risks and problems; societal factors and individual determinants; specific techniques for helping people mod-

ify life styles. PSYCH 486.

180.11. Coping with Stress in Medical School. Consent of instructor. Lab and class-

room limited. Priority given to medical stu-

dents. PSYCH 481.

Blackwell
Survey of major contemporary responses to personality, including some more recently, se-

lected philosophic points of view, study of how they conceptualize personality development, how they relate to em-

ployment and social interaction and how that research is gen-

erated by them. PSYCH 481.


Blackwell
Survey of major contemporary responses to personality, including some more recently, se-

lected philosophic points of view, study of how they conceptualize personality development, how they relate to em-

ployment and social interaction and how that research is gen-

erated by them. PSYCH 481.


F. Neale
Counseling intervention for coping and learning difficulties. PSYCH 481.

180.01. Medical Genetics. 5 Credit hours. Consent of instructor. Seminar 1 hour. Lab 1 hour. Lecture 5 hours. Equivalent to Psychology 495.

Atkinson
The development and testing of theoretical models of personality are explored by means of computer programs. Students program the computerized simulation and symbol manipulation. PSYCH 495.

210. Personality Psychology (3) S. Pre-

requiste: Consent of instructor. Seminar 2 hours. Equivalent to Psychology 431.

Atkinson
A seminar course designed to provide a basic overview of the organizational context of program evaluation, design and implementa-

tion of information systems; assessment of community needs; evaluation of program effectiveness; and training of evaluators. PSYCH 431.

210. Psychological Aspects of Health and Illness (5) S. Prerequisite: Consent of in-

structor to Health Psychology Program or consent of instructor Lecture 5 hours. Offered in alternative years. Not offered 1981-82.

J. Fisher
Survey of current conceptualizations of personality, including some more recently, se-

lected philosophic points of view, study of how they conceptualize personality development, how they relate to em-

ployment and social interaction and how that research is gen-

erated by them. PSYCH 431.


Blackwell
Survey of major contemporary responses to personality, including some more recently, se-

lected philosophic points of view, study of how they conceptualize personality development, how they relate to em-

ployment and social interaction and how that research is gen-

erated by them. PSYCH 431.


F. Neale
Counseling intervention for coping and learning difficulties. PSYCH 431.

242B. Research Methods. (3 S. F.) Prerequisite: Consent of instructor. Seminar 2 hours. Offered in alternate years. Offered 1981-82.

N. Adler, Atkinson, Hargreaves

An in-depth study on three issues of research, such as treatment experiments, program evaluation and ethics, and artifacts. Emphasis on developing a research protocol.


N. Adler, Atkinson

Psychological text construction, including item analysis, standardization, reliability, and validity.

257. Introduction to the Computer for Behavioral Sciences. (3 S.) F. Prerequisite: Elementary knowledge of a computer language. Consent of instructor. Lecture 2 hours. Lab. 6 hours. Offered in alternate years. Required 1982-81.

R. S. Wallerstein, Smedler


260. The Health System. (3 S. F.) Prerequisite: Graduate standing in Health Psychology, or with permission of instructor Lecture 15 hours. Seminar 2 hours. Consent of instructor. Seminar 2 hours. Lab 1 hour. Not offered 1982.

264. Stress and Bodily Disease. (3 S.) Prerequisite: Consent of instructor. Seminar 3 hours. Offered in alternate years. Not offered 1981-82.

H. J. Cohen

Examination of the role that psychological factors can play in the production of stress-related syndromes, drug addictions and the faco-

270A-C. Communication Skills in Health Transactions. (2-2-2 S. F. W.) Prerequisite: Graduate standing in Health Psychology Program, or consent of instructor. Lecture 1 hour Lab 3 hours. Offered in alternate years. Not offered 1981-82.

275. Starkeweather

The computer is studied as a tool for data analysis and controlled experiment. Students will learn to make use of existing pro-

276. Stress and Bodily Disease. (3 S.) Prerequisite: Consent of instructor. Seminar 3 hours. Offered in alternate years. Not offered 1981-82.

H. J. Cohen

Examination of the role that psychological factors can play in the production of stress-related syndromes, drug addictions and the faco-

285A-B-C. Intermediate Family Ther-

285A-B-C. Communication Skills in Health Transactions. (2-2-2 S. F. W.) Prerequisite: Graduate standing in Health Psychology Program, or consent of instructor. Lecture 1 hour Lab 3 hours. Offered in alternate years. Not offered 1981-82.

G. Stone

A three-part course that teaches a number of skills involved in face-to-face interactions and prepares the student to do research on communication, and to teach the skills to others.

PSYCHOLOGY

275. Starkeweather

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406. Multidisciplinary Approach to Maxillofacial Prosthetics. (1.5 E. W. P. Lecture 1 hour)

Ziolow

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.
Restoration Dentist 17A-B.C. 1 hour. Lecture 6 hours.

Schuchardt, M. Stark

Restorative Dentist 17B-A.B.C. 1 hour. Lecture 6 hours.

Schuchardt, M. Stark

Advanced restorative dentistry for residents will be directed toward the psychology of patient management in relation to treatment planning. The clinical phase will provide experience in contact instruction. RESTORANT DENTIST

175. Postdoctoral Clinical Practice. (2) SS. Prerequisite: Restorative Dentistry 17A-B.C. 2 clinical hours.

Schuchardt, M. Stark

Clinical practice applying advanced restorative procedures. Continuation of Restorative Dentistry 173 on an advanced level.

176B-C. Clinical Research. (1-5, 3-5) W. P. Prerequisite: Restorative Dentistry 17A-B.C. 173, and 174A-B.C. Research 1-5-3-5.

Schuchardt, M. Stark

A research project in the field of maxillofacial prosthetics.

Schuchardt, M. Stark

Student selects to complete required studies, one or more of the divisions after satisfactorily completing all requirements in Fixed Prosthodontics, Operative Dentistry, and Maxillofacial Prosthetics.

Regil

Student Attendance at related tumor board conferences and field trips to other therapy centers. RESTORANT DENTIST

Schuchardt, M. Stark

Study and interpretation of current literature contributing to the advance of dental literature. Discussion is directed toward defining areas of further study and considerations of modifying scope of dental education to include advances. Research projects are developed and implemented.

Schuchardt, M. Stark

A broad survey of historical literature related to the practice of dental hygiene.

Schuchardt, M. Stark

To 1 hour. Lecture 1 hour. Lecture 6 hours.

Schuchardt, M. Stark

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

Schuchardt, M. Stark

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

Regil

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

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A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department.
230. Analysis of Symbolic Systems, (2-4) § W: Prerequisite: Consent of instructor... Olesen

Critical inspection and analysis of American religious, political, and educational institutions and mass media with communication of findings to respect the diffusion and evolution of values in specific sections of the society, such as health professions. SOE BEHC 25.

231. Advanced Problems in Social Psychology, (2-4) § W: Prerequisite: Consent of instructor. Seminar 2-4 hours... Olesen

An advanced seminar dealing with theoretical and conceptual problems in various areas of social psychology. Recent developments in theory and concept will be reviewed. SOE BEHC 25.

254. Health and Aging, (2-4) § W: Prerequisite: Consent of instructor. Lecture 2-4 hours... Lipton

Examination of the health status of older people in the United States in light of relevant biological, behavioral, sociocultural, environmental factors. Social, cultural, economic factors affecting organization, financing, and delivery of health care to the aging population will be examined. SOE BEHC 25.

255. Health Factors in Marriage and Family Behavior, (2-4) § W: Prerequisite: Consent of instructor. Graduate-student standing. Lecture 2 hours. Lab 3 hours... Staples

Exploration of how marital and family behavior may generate mental health problems. Topics to be covered are family violence, child abuse, sexual reorientation and deviancy, suicide, psychological problems, and the relationship of marital status to morbidity and mortality. SOE BEHC 25.

256. Race and Class Factors in Health Care Delivery, (2-4) § W: Prerequisite: Consent of instructor. Graduate-student standing. Lecture 2 hours. Lab 3 hours... Staples

Examination of how racial and class membership impact on access to and quality of medical services, variations in the quality of those services, how professional roles in the health care system are organized along racial and class lines. SOE BEHC 25.

277. History of Sociological Thought, (4) § W: Lecture 4 hours... Schatzman

Introduction to history of sociological thought. Objective of the course is to provide perspective and vocabulary to students in the field of sociology. Readings of selected works which constitute sociological tradition. Discussion of conceptual frameworks and their relationship to theory will provide understanding of sociological work. SOE BEHC 25.

283. Advanced Studies in Women's Roles in Health and Healing Systems, (2-4) § W: Lecture 2-4 hours... Olesen

Opportunity to work with both theoretical and research questions on the relation of women's participation in health and healing systems. Critical framework on approach to method, relationship to theory, and articulation of questions will be considered. SOE BEHC 25.

293. Field Research as an Evaluation Method, (3-5) § W: Prerequisite: Sociol 32A and 214B. Lecture 3 hours... Schatzman, Olesen

Analysis of field work as an evaluation method, as applied to health care settings. Discussion of their advantages and limitations. SOE BEHC 25.

294. Studies in Sociology, (1-6) § W: Prerequisite: Consent of instructor... Stadium

Students select special problems to read independently. These studies may be conducted through readings, the collection or analysis of empirical data, or the development of conceptual or methodological frameworks of method. SOE BEHC 25.

250. Research, (1-8) § W: Prerequisite: Admission to doctoral study and consent of instructor... SOC BEHC 25.

258. Thesis or Comprehensive Examination, (0) § W: Prerequisite: Advance- ment to candidacy and permission of the graduate advisor... SOC BEHC 25.

For graduate students enrolling in the thesis for the master's degree or taking a comprehensive examination required for the master's degree. SOE BEHC 25.

299. Dissertation, (0) § W: Prerequisite: Admission to candidacy and permission of the graduate advisor... SOC BEHC 25.

For graduate students enrolling in writing the dissertation for the Ph.D. degree. SOE BEHC 25.

240. Speech and Hearing Science, (210) Fundamentals of Auditory Neurobiology, (3-1) § W: Prerequisite: Consent of instructor. Lecture 3 hours... R. Snyder, Merzenich

Teaching and critical discussion of receptive functions of the auditory system and physiology of the auditory system. Each level of processing in the auditory system will be studied in relation to the experience of the periphery to the cornea will be considered in turn. OTOLARYN

220. Inner Ear Anatomy, (3) § W: Prerequisite: Consent of instructor Lecture 1 hour. Lab 6 hours... Owens

Dissecting and laboratory work in the auditory system and in its disorders. OTOLARYN

249. Independent Study, (1-5) § W: Prerequisite: Consent of instructor... Owens

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 anatomical, physiological, and functional aspects of speech and hearing sciences. OTOLARYN

290. Research (0) § W: Prerequisite: Consent of instructor... Otter, Owens, Merzenich

Research for the Ph.D. dissertation. OTOLARYN

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

For graduate students enrolling in writing the dissertation for the Ph.D. degree. OTOLARYN

Surgery

110. Required Core Clinical Clerkship in General Surgery, (15) per week... Ebert, Trunkay, L. Way, V. Richards

Core general clinical surgery. Students assigned to wards and clinics at UCSF, VA, and the application of basic sciences, pathology, radiology, and psychiatry to surgical problems as emphasized in ward rounds and seminars. SURGERY

115. Operable Heart Disease, (15) per week... Ebert, Trunkay, L. Way, V. Richards

Core curriculum in basic sciences and Medicine 110 and Surgery 130 and 111.

UC B. Roe, E. Tallis

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

116. O.S.P.H. Emergency Clerkship (15) per week... Ebert, Trunkay, L. Way, V. Richards

Core curriculum in basic sciences and Medicine 110 and Surgery 130 and 111.

R. Linn and Tref 5

Four weeks participation on the operating floor at S.F. General Hospital. Students will work-up selected cases, perform minor procedures under direct supervision, and follow all significant surgical emergencies as time permits. SURGERY

150. O.S.P.H. Trauma and Shock, (15) per week... Ebert, Trunkay, L. Way, V. Richards

Core curriculum in basic sciences and Medicine 110 and Surgery 130 and 111.

Sheldon

Course involves clinical and laboratory investigations and a detailed study of patients with trauma and shock. SURGERY

140. General Surgery Clinical Clerkship, (15) per week... Ebert, Trunkay, L. Way, V. Richards


Clinical clerkship in approved hospitals in other universities by special arrangement and approval of the chairman of the department and the Dean. SURGERY

140. Vascular Surgery Clerkship, (15) per week... Ebert, Trunkay, L. Way, V. Richards

Core curriculum in basic sciences and Medicine 110 and Surgery 130 and 111.

Goldstone

Students serve as acting interns on the vascular surgery team, participating in preoperative, intraoperative, and postoperative management of vascular disease. Rotations include clinics, rounds, and confereNCES. SURGERY

140. Operable Heart Disease Clerkship, (15) per week... Ebert, Trunkay, L. Way, V. Richards

Core curriculum in basic sciences and Medicine 110 and Surgery 130 and 111.

UC B. Roe, E. Tallis

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

140. O.S.P.H. Emergency Clerkship (15) per week... Ebert, Trunkay, L. Way, V. Richards

Core curriculum in basic sciences and Medicine 110 and Surgery 130 and 111.
Surgery

Students work as interns on Surgical Service at VA during their final year. Ss pre-op, pre-operatively, work with patients in operating room, assume graduated, increasing responsibility in postoperative care. Rounds and conferences enhance clinical experience. Interns assist with patients, staff in patient care, emphasizing SURGICAL CARE.


Clinical clerkship in the trauma service of the Department of Surgery at UC. The student will work at intern-klav level as an integra part of the service. SURGICAL CARE.

140.10. Clinical Experience in Cardiothoracic Surgery. (15 per week) Su, W, F, Wp, Pre-requisite: Medicine 110 or Surgery 110 or 111.

Ellin As an integral member of the cardiothoracic surgical team, the student directly and actively shares in postoperative care, operative procedures, and postoperative care. Cardiothoracic and thoracic conferences and daily ward rounds provide the didactic teach- SURGERY.

140.11. Burn Care Elective. (15 per week) Su, W, F, Wp, Pre-requisite: Surgery 109

Burns introduction to a large Burn Unit Service. Pathophysiology of thermal injury including pulmonary aspects will be stressed. Students act as intern-klav level members of the team and participate directly in patient care. SURGICAL CARE.


Vasconcellos, Mathes, Walton Participation in clinical activities of plastic surgery. Students work on patients and take part in operating procedures, as well as the post-operative care. Exposure to patients with general reconstructive prob- lems and those in head and neck, hand, surgery, and congenital anomalies. SURGERY.


O'Hara Students receive broad clinical experience in general surgery at VA and with practicing surgeons in selected community settings in the Central Los Angeles Valley. Balance between VA and community assignments is in- dividually arranged, according to students' interests. SURGERY.

140.03. Clinical Cardiopulmonary Surgery. (2 per week) Su, W, F, Wp, Pre-requisite: Consent of instructor.

Ebert and Staff Library research and discussion under supervision of a member of the faculty with the approval of the chairperson of the department, SURGERY.

140.04. Laboratory Project in Surgery. (15 per week) Su, W, F, Wp, Pre-requisite: Consent of instructor.

Ebert and Staff A laboratory research project under direc- tion of one of the members of the department with the approval of the chairperson of the department. SURGERY.

140.05. Advanced Surgery Reading Course. (2) Per, Ebert

A weekly seminar where previously assigned papers are discussed and summarized. Papers representing the classical and current state of general surgery are covered. SURGERY.

140.66. Total Parenteral Nutrition Clerkship. (15-17 per week) Su, W, F, Wp, Pre-requisite: Consent of instructor. Lecture 5 hours. Lab 6 hours.

Sheldon Course emphasizes nutritional and metabolic care of patients with surgically altered anatomy. Students are prepared and assist in the operating room and pathological laboratory. SURGERY.


Seminar is held in the surgical wards with discussion related to the diagnosis and management of general surgical patients. SURGERY.

140.05. Clinical Surgery. (15 per week) Su, F, W, Wp.

U/C Ebert, SF DBG Trunkey, UC W, Richards Residents, under supervision, are responsible for the preparation of case records, laboratory work, preoperative patient preparation, as- sistance at operation, postoperative care, and attendance at follow-up clinic. SURGERY.

Teaching Methodology


Course provides resource information in the form of a systematic overview of educa- tional technology. This information is intro- duced in conjunction with the development by the individual student of an actual micro- teaching plan. D.D.S. Degree Seminar 2 hours.


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

180.02A-B-C. Teaching Methods. (0, 0, 0, 0, 0) F, W, Wp. Pre-requisite: Fourth-year stand- ing or consent of Instructor 1st lecture hour.

R. J. Miller Predominantly group discussions on selected readings in educational methodol- ogy. Specializations in education are invited to teach. D.D.S. Degree Seminar 1 hour.

180.02A-B-C. Teaching Methods. (0, 0, 0, 0, 0) F, W, Wp. Pre-requisite: Fourth-year stand- ing or consent of Instructor 1st lecture hour.

R. J. Miller Predominantly group discussions on selected readings in educational methodol- ogy. Specializations in education are invited to teach. D.D.S. Degree Seminar 1 hour.


Tanagho and Staff Seminar and library research.


Tanagho and Staff
First-year residents care for patients in the wards and outpatient clinics. Second- and third-year residents, under supervision, perform instrumental examinations on clinic patients. Senior residents, under supervision, perform instrumental and surgical procedures and have administrative, clinical, and teaching responsibilities. UROLOGY


SGH McNinch, UC Tanagho, SFH McNinch, V.A. Mears

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David S.axon

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Glenn Campbell (1994)
William French Smith (1986)
Robert O. Reynolds (1986)
Dean A. Woldrich (1984)
Joseph A. Moore (1990)
John H. Lawrence, M.D. (1988)

1Stanley A. Waite, Secretary of the Alumni Associ- ation of the University of California, and Louis Wesson, Secretary of the Alumni Association of the University of California, are Regents-designate (non-voting).

Vilma S. Martinez (1990)
John R. Henning (1989)
Yuri Wida (1992)
David A. Neuman (1982)
Wille L. Brown, Jr. (1992)
Frank W Clark, Jr. (1988)
David Allen (1990)
Willie W. Harman (1990)

Regents-Designate

Stanley A. Waite
David A. Neuman
Louis Wesson

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Oliver A. Johnson, Jr. (September 1, 1980 to August 31, 1982)

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Vice President of the University, Emeritus; Professor of Agricultural Economics, Emeritus; and Agricultural Economist, Emeritus
Harry R. Wellman
Vice President—Business and Finance, Emeritus; and Professor of Political Science, Emeritus
John A. Perkins

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


Tanagho

Seminar includes study of the basic sci- ences and urologic oncology with members of the attending staff. UROLOGY


Tanagho

Course includes experimental investiga- tion in urologic problems. UROLOGY


Tanagho

Seminar includes discussion of diagno- si and treatment of patients in the urology wards with the attending staff. UROLOGY

403. General Urologic Staff Conference.

Tanagho

Conference includes presentation and dis- cussion of urologic problems by the house staff and faculty. UROLOGY


UC Tanagho, SGH McNinch, V.A. Mears