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

100A. Systemic Regional & Devel Anat. (5) F Lecture 5 hrs. Lab 6 hrs. Sutherland and Staff

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

110. Embryology. (1-5) Sr. Pre requisite: General Zoology I. Lecture 1 hr. Sutherland and Staff

Introduction to basic human embryology with emphasis on head and neck normal and abnormal development. STOMATOLOGY

110. Histology. (5) Sr. Pre requisite: Anatomy with Embryology. Lecture 2 hrs. Lab 3 hrs. Sutherland and Staff

A study of the microscopic structures of the tissues and organs of the human body by means of light microscope slides. Functional aspects of the structures are stressed. Intended for first-year students in the School of Pharmacy.


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


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and childhood illness will be discussed. EPID INTL HETH 277, 278.

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

An examination of the significance of gender in the social organization and culture of modern as well as traditional societies, including cross-cultural study of economic, social, and religious structures and patterns in depth discussion of specific ethnographic areas. EPID INTL HETH 276.

258. Shamanism & Related Phenomena. (3) W Prerequisite: Consent of instructor. Lecture 4 hours.

A cross-cultural survey of the practice of shamanism with emphasis on management of the mind, effects of disease causation, diagnosis, and therapy will be compared and contrasted in comparable shamanistic medical systems. Comparison of shamans in the world. EPID INTL HETH 274.

259. Comparative Family Systems. (3) E, F, W Prerequisites: Consent of instructor. Lecture 2 hours plus 3 hours independent study.

Survey of conceptual approaches to family structure and modes of family assessment. Structure and dynamics of varying family systems examined, emphasizing changing family forms and ways family life and values contribute to modes of coping with stress, illness, and illness care. EPID INTL HETH 275.

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


261. Social Gerontology. (2-4) E, W Prerequisite: Consent of instructor. Lecture 2 hours plus 5 hours independent study.

Kaye-Jones

Course covers developmental and social changes in aging. Emphasis is on physiological and sociological studies, but biological and psychological perspectives are included. Current issues in aging with emphasis on implications for health care are discussed. EPID INTL HETH 273.

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

McLain

Popular medicine in the Third World with emphasis on how people use indigenous and biomedical health care. Theories of health and disease, social and symbolic dimensions of healing, and relevance of traditional medicine for health management and primary health care. EPID INTL HETH 273.

263. Contemporary American Society. (5) E, F, W Prerequisite: Consent of instructor. Lecture 2 hours plus 5 hours independent study.

F. Dunn

Abin

A review of anthropologically oriented research on basic American values, social organization, and ethnicity. Emphasis is on socioeconomic diversity and changing institutions, values, and life styles. EPID INTL HETH 273.

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

Groups of two or more collaborate on special problems in anthropology of specific regions or facets of faculty. Students may select areas related to their long-term interest and future research program. EPID INTL HETH 273.

265. Directed Reading. (1-5) E, F, W Prerequisite: Consent of instructor.

Instructor independent study. EPID INTL HETH 273.

266. Research. (1-8) E, F, W Prerequisite: Consent of instructor. Lecture 2 hours plus research experience.

C. S. Wilson

Survey of past and current research on sociocultural aspects of aging, including health and nutrition in developed and developing countries; views on aging in various sociocultural contexts; and implications of sociological anthropology field studies will be presented. EPID INTL HETH 273.

267. Special Study. (1-5) E, F, W Prerequisite: Consent of instructor.

F. Dunn

Abin

An overview of the theoretical, empirical, and applied literature on the social processes of aging in this country. Special emphasis on health-related problems and the delivery of services. EPID INTL HETH 273.

268. Class, Culture & Health Policy. (3) E, F, W Seminar 3 hours.

M. F. Mitchell

Combines macro-level sociological analysis of health policy and health policy; the course will examine the effect of culturally defined beliefs and values on utilization of health services and the impact on health policies made for medical care for low-income populations in the United States. EPID INTL HETH 273.

269. Epidemiology & Med Anthro. (2-3) E, F, W Prerequisite: Consent of instructor. Lecture 2 hours plus 3 hours independent study.

Colby

F. Dunn

Abin

Individual or small group directed reading and discussion of epidemiological and medical ecological perspectives, methods, and findings relevant to the field of medical anthropological. EPID INTL HETH 273.

270. Biopsychosocial & Devel. (3-4) E, F, W Prerequisite: Consent of instructor.

Pawson

Colby

Lecture 3 hours plus 3 hours laboratory. EPID INTL HETH 273.

Analysis of the examination of the human growth process with emphasis on the interaction of genetics, environment, and individual differences. Students may select areas related to their long-term interests and future research programs. EPID INTL HETH 273.

271. Directed Reading. (1-5) F, W Prerequisite: Consent of instructor.

Abin

Instructor independent study. EPID INTL HETH 273.

272. Research. (1-8) F, W Prerequisite: Consent of instructor. Lecture 2 hours plus research experience.

C. S. Wilson

273. Bio Spec Persp on Growth & Devel. (3-4) E, F, W Prerequisite: Consent of instructor.

Pawson

Lecture 5 hours.

Examination of the human growth process with emphasis on the interaction between genetics, environment, and individual differences. Biochemical basis of the growth process, critical periods of growth—birth, development, implantation, prenatal development, birth, early postnatal development, adolescence, senescence, and developmental abnormalities and racial differences in growth in human beings. EPID INTL HETH 273.

274. Nutritional Anthropology. (2-3) E, F, W Prerequisite: Consent of instructor. Lecture 2 hours plus research experience.

Colby

F. Dunn

Abin

Instructor independent study. EPID INTL HETH 273.

275. Survey of past and current research on sociocultural aspects of aging, including health and nutrition in developed and developing countries; views on aging in various sociocultural contexts; and implications of sociological anthropology field studies will be presented. EPID INTL HETH 277.

276. Special Study. (1-5) E, F, W Prerequisite: Consent of instructor.

F. Dunn

Abin

An overview of the theoretical, empirical, and applied literature on the social processes of aging in this country. Special emphasis on health-related problems and the delivery of services. EPID INTL HETH 277.

277. Class, Culture & Health Policy. (3) E, F, W Seminar 3 hours.

M. F. Mitchell

Combines macro-level sociological analysis of health policy and health policy; the course will examine the effect of culturally defined beliefs and values on utilization of health services and the impact on health policies made for medical care for low-income populations in the United States. EPID INTL HETH 277.

278. Epidemiology & Med Anthro. (2-3) E, F, W Prerequisite: Consent of instructor. Lecture 2 hours plus 3 hours independent study.

Colby

F. Dunn

Abin

Individual or small group directed reading and discussion of epidemiological and medical ecological perspectives, methods, and findings relevant to the field of medical anthropological. EPID INTL HETH 277.

279. Bio Spec Persp on Growth & Devel. (3-4) E, F, W Prerequisite: Consent of instructor.

Pawson

Colby

Lecture 3 hours plus 3 hours laboratory. EPID INTL HETH 277.

Analysis of the examination of the human growth process with emphasis on the interaction between genetics, environment, and individual differences. Biochemical basis of the growth process, critical periods of growth—birth, development, implantation, prenatal development, birth, early postnatal development, adolescence, senescence, and developmental abnormalities and racial differences in growth in human beings. EPID INTL HETH 277.

280. Nutritional Anthropology. (2-3) E, F, W Prerequisite: Consent of instructor. Lecture 2 hours plus research experience.

Colby

F. Dunn

Abin

Instructor independent study. EPID INTL HETH 277.

281. Bio Spec Persp on Growth & Devel. (3-4) E, F, W Prerequisite: Consent of instructor.

Pawson

Colby

Lecture 3 hours plus 3 hours laboratory. EPID INTL HETH 277.

Analysis of the examination of the human growth process with emphasis on the interaction between genetics, environment, and individual differences. Biochemical basis of the growth process, critical periods of growth—birth, development, implantation, prenatal development, birth, early postnatal development, adolescence, senescence, and developmental abnormalities and racial differences in growth in human beings. EPID INTL HETH 277.

282. Nutritional Anthropology. (2-3) E, F, W Prerequisite: Consent of instructor. Lecture 2 hours plus research experience.

Colby

F. Dunn

Abin

Instructor independent study. EPID INTL HETH 277.
221. Selected Topics. (4-6) F, W, S. Lecture 1 hour. Staff.

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

240. Macromolecule Structure & Dynamics. (3) W. Prerequisite: Consent of instructor. Lecture 2 hours. Offered in alternate years. Not offered 1995-96. A. R. Cooke, Stroud. Coincidence of the structure and function of macromolecules along with a treatment of the methods used to probe aspects of molecular organization and dynamics. Emphasis will be on modern E.M., X-ray and biophysics, and magnetic resonance methods. BIOCHEM

242. Protein Crystallography. (3) W. Prerequisite: Consent of instructor. Offered on a 2 hour Lab 3 hours offered in alternate years. Not offered 1995-96. A. R. Cooke, Stroud. Principles of X-ray crystallography applicable to protein structure analysis will be covered in a course oriented toward research level understanding of the field. Course will involve group participation and some experimental work. BIOCHEM

245. Cell & Developmental Biology. (3) W, F. Prerequisite: Calculus, physics, organic chemistry, and an advanced course in biology are recommended. Lecture 3 hours. R. Kelly, Alberts, Kirkshen. Modern aspects of the biochemical basis of cell biology and development will be emphasized on spatial and organismal morphogenesis. BIOCHEM

246. Cell Developmental Biology. (3) W. Prerequisite: Calculus, physics, organic chemistry, and an advanced course in biology are recommended. Lecture 3 hours. R. Kelly, Alberts, Kirkshen. Modern aspects of the biochemical basis of cell biology and development will be emphasized on spatial and organismal morphogenesis. BIOCHEM

252. Selected Topics. (0-3) F,W,S. Lecture 1 hour. Staff.

Discussions of advanced topics in chemistry, biophysics, and biophysics. BIOCHEM

251. Laboratory Rotation. (5) F, W, S. Prerequisite: Consent of instructor. Lab 9 hours.

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


Discussions of advanced topics in biophysics and their applications, with emphasis on structure-function relationships and multicellular organism behavior. BIOCHEM


Research projects in biochemistry. BIOCHEM

265. Special Study. (1-5) F, W, S. Staff.

Independent study directed by members of the academic staff. BIOCHEM


Prerequisite: Consent of instructor and academic advisor. BIOCHEM

282. Cancer Genetics Workshop. (1) S. Staff.

Library research and directed reading under supervision of the academic staff. BIOCHEM


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

290. Thesis. (0-6) F, W. Prerequisite: Consent of instructor and permission of the graduate advisor. Staff.

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

299. Dissertation. (0-7) F, W. Prerequisite: Approval by the graduate advisor. BIOCHEM

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

299. Bioengineering.

190. Diff Equations for Biomed Use. (3) F. Prerequisite: Introductory calculus. Lecture 5 hours. Staff.

Course covers description of biochemical processes such as cardiovascular physiology, pharmacokinetics, instrumentation with an emphasis on differential equations, direct methods and numerical integration. Emphasis is on the care and clinical meaning of experimental and clinical results. BIOCHEM


This course is intended to introduce the student to the mechanics of several joints in the human body, to acquaint the student with common biomaterials (and their properties) used in orthopaedics, and to discuss these uses with respect to joint mechanics and joint displacement. BIOCHEM


Required of all graduate students as a group. Staff.

250. Lec and Lab. (1-5) F, W, S. Staff.

Advanced study in various subjects through seminars on topics to be selected each year. Staff.


Advanced study in various subjects through seminars on topics to be selected each year. Staff.


Research projects in biochemistry. Staff.

265. Special Study. (1-5) F, W, S. Staff.

Independent study directed by members of the academic staff. Staff.

Mathematical concepts and processes for planning, representing, and analyzing data in biomedical research. Review of algebraic operations, equations, matrices, and graphs. Mathematical analysis of statistical hypotheses, variance, covariance, measures of position, regression, integrals, and integrals. Series. Introduction to probability, uncertainty, enzyme ki- netics, tracer studies, population dynamics. BIOCHEM

265. Mathematical Modeling through Diff Eqns. (3) F. Prerequisite: Bioengineering 180 or equivalent. Lecture 2 hours. Staff.

Develops of intuitive notions regarding differential equations and the use of the various qualitative and quantitative aspects of differential equations are explored by appropriate examples, applications, and mathematical techniques. Applications to selected problems in compartmental analysis, enzyme and drug kinetics, and mathematical and biological models. BIOCHEM

265. Computer Calculus & Diff Eqns. (3-5) F. Lecture 3 hours.

Staff.

Mathematical modeling and computer tools for simulation of research problems in biochemistry and Biophysics. BIOCHEM

265. Ethical Aspects of Biomedical Research. (3) F. Staff.

Ethical aspects of the research process and the responsibility of the researcher for the safe and ethical conduct of research. BIOCHEM

265. Advanced BIOS.

180. Algebra & Calculus for Biomed. (3) F. Staff.

Mathematical concepts and processes for planning, representing, and analyzing data in biomedical research. Review of algebraic operations, equations, matrices, and graphs. Mathematical analysis of statistical hypotheses, variance, covariance, measures of position, regression, integrals, and integrals. Series. Introduction to probability, uncertainty, enzyme ki- netics, tracer studies, population dynamics. BIOCHEM

265. Mathematical Modeling through Diff Eqns. (3) F. Prerequisite: Bioengineering 180 or equivalent. Lecture 2 hours. Staff.

Develops of intuitive notions regarding differential equations and the use of the various qualitative and quantitative aspects of differential equations are explored by appropriate examples, applications, and mathematical techniques. Applications to selected problems in compartmental analysis, enzyme and drug kinetics, and mathematical and biological models. BIOCHEM

265. Computer Calculus & Diff Eqns. (3-5) F. Lecture 3 hours.

Staff.

Mathematical modeling and computer tools for simulation of research problems in biochemistry and Biophysics. BIOCHEM

265. Ethical Aspects of Biomedical Research. (3) F. Staff.

Ethical aspects of the research process and the responsibility of the researcher for the safe and ethical conduct of research. BIOCHEM

265. Advanced BIOS.
Biostatistics


Course stresses application of methods, including analysis of variance, simple linear regression, and simple chi-square tests. Included for those who may need to use elementary statistics in their work, not as preparation for more advanced courses. ENP D, HTH, 185A.

185A. Probability & Statistics. (4) F. Pre-requisite: Working knowledge of algebra. ENP D, HTH.

Biostatistics 185A and 185B are conceptually oriented introduction and preparation courses in the biological sciences. Topics covered include roles of statistical ideas and methods, descriptive statistics, probability, random variables, sampling, estimation, confidence intervals, and hypothesis testing, primarily concerning population means. ENP D, HTH, 185B.


Course covers one- and two-factor analysis of variance, linear regression analysis with emphasis on the biological sciences, independence of variables, elementary nonparametric methods, simple chi-square tests, and other topics. ENP D, HTH, 185B.


Library research and directed reading supervision of a member of the faculty with approval of the department chairman. ENP D, HTH.

201. Analysis of Qualitative Data. (3) § W Pre-requisite: Biostatistics 185A or equivalent. Lecture 3 hours. G. Fein.

Course will focus on data analysis in studies in which raw data are presented, not on rates and proportions. Topics include sample size, cross-tabulation study design and analysis in prospective samples and misclassification errors. ENP D, HTH.

210A. Regression Analysis & ANOVA. (4) F. Pre-requisite: Biostatistics 185A or equivalent. Lecture 3 hours. Lab 3 hours. J. Hoffman and colleagues.

Course covers the uses of multivariable regression techniques, focusing on the choice of technique and interpretation of results rather than mathematical development of the methods. Design of experiments is stressed with appropriate emphasis on power analysis. ENP D, HTH, 210B.

210B. Regression Analysis & ANOVA. (4) W, Lecture 3 hours. Lab 3 hours. J. Hoffman and colleagues.

This course continues the material and approach of Biostatistics 210A. Topics include analysis of variance and covariance (primarily from a regression standpoint), repeated measures analysis of variance. ENP D, HTH, 210C.

213. Multivariate Methods. (3) § Pre-requisite: Biostatistics 210A and 210B or equivalent. Lecture 3 hours. J. Hoffman and colleagues.

Course covers classical multivariate methods, as well as classical multivariate analysis of variance, principal components, and discriminant analysis. Emphasis is on application and interpretation of these procedures with review of nonparametric methods. ENP D, HTH, 220.

220. Selected Topics. (2-5) F, W, Lecture 2 or 3 hours. Staff.

Staff may select and delineate such advanced methods for failure time data, statistical epidemiology: logic and practice of scientific inquiry. ENP D, HTH, 225.


570. Nonlinear Regression. (2) § F Pre-requisite: Biostatistics 210A or equivalent. Lecture 2 or 3 hours. Staff.


279. Special Study. (1-3) F, W, Lecture 1-3 hours. Staff.

Reading and conferences for qualified students. Must be a member of the staff. ENP D, HTH, 290.

Chemistry

112. Intro to Organic Chemistry. (3) F. Pre-requisite: Completion of 060 or 155 and 115. Staff.

Survey of organic chemistry—structure and reactivity, an introductory study of the nomenclature, stereochemistry, spectroscopy, and reactions of the major organic compounds of carbon, including aromatic compounds. PHARM CHEM.


Selected topics at an introductory level, which will vary from year to year. Includes the structure of nucleic acid and proteins, quantum chemistry, and spectroscopy. PHARM CHEM.


55
Students participate in the activities of the Anticoagulation Clinic 130, 131, 132, and 176. Consent of instructor.

Winter, S. C., Cohen, D.  

Students work with the clinical pharmacists to evaluate psychiatric patients' response to drug therapy and present consultations reviewing overall patient therapeutic management. Weekly semester. Consent of instructor.  

175.46. Haigton Herons Detox Unit Clerkship (1.0 F. W. | Prerequisite: Consent of instructor) 

Winter, J. C.  

Students work as co-therapists under the supervision of the clinical pharmacists and physicians to develop individual therapy plans for detoxification. Where needed, students develop detailed drug information resources with a specific patient care. Consent of instructor.  

175.50. Parenteral Nutrition (1.0 F. W. | Prerequisite: Clinical Pharmacy 130, 131, 132, and 135, 136, and 137. Consent of instructor) 

Winter, J. C., and Muir, M.  

Students participate in IV fluid therapy as part of patient preparation, and management of patients receiving intravenous medications. Conferences are held on topics related to problems in the use of intravenous fluid therapy in various disease states. Consent of instructor.  

175.82. IV Additives Clerkship (1.0 F. W. | Prerequisite: Clinical Pharmacy 130, 131, and 132. Consent of instructor: Winter, J. C., and Muir, M.) 

Winter, J. C., and Muir, M.  

An introduction to the administrative, technical, and professional aspects of preparing and maintaining IV additive service. Lecture, lab, and small group discussions in workshops and conferences. Consent of instructor.  

175.83. IV Additives & Unit Dose (1.0 F. W. | Prerequisite: Clinical Pharmacy 130, 131, 132, and 135. Consent of instructor) 

Winter, J. C., and Muir, M.  

Students participate in centralized IV additive and unit dose systems of distribution, with involvement in the decentralized clinical activities, including patient profile reviews. Consent of instructor.  

175.56. Drug Utilization Review (1.0 F. | Prerequisite: Clinical Pharmacy 130, 131, 132, and 135. Consent of instructor) 

Winter, J. C., and Muir, M.  

Students participate in establishing and maintaining clinical drug utilization review. Students complete the study drug, utilizing consultation and present results to the physicians and other disciplines involved. Consent of instructor.  

175.87. Drug Utilization Review (1.0 F. | Prerequisite: Clinical Pharmacy 130, 131, 152 and consent of instructor) 

McCart, E. J.  

McCart, E. J.

Winter, J. C., and Muir, M.  

Partnership practical experience in a hospital-owned community pharmacy offering progressive patient-oriented services, including drug monitoring, establishment and maintenance of medical profiles, patient counseling, drug information and in-service education. Consent of instructor. 

175.76. Senior Medication Education Program (1.0 F. W. | Prerequisite: Clinical Pharmacy 130, 131, 132, and 135. Consent of instructor: Winter, J. C., and Muir, M.) 

Winter, J. C., and Muir, M.  

An introduction to the administrative, technical, and professional aspects of preparing and maintaining IV additive service. Lecture, lab, and small group discussions in workshops and conferences. Consent of instructor.  

175.83. IV Additives & Unit Dose (1.0 F. W. | Prerequisite: Clinical Pharmacy 130, 131, 132, and 135. Consent of instructor) 

Winter, J. C., and Muir, M.  

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175.87. Drug Utilization Review (1.0 F. | Prerequisite: Clinical Pharmacy 130, 131, 152 and consent of instructor) 

McCart, E. J.  

McCart, E. J.
130, 131, 132 and 135. Consent of instructor. Winter, Spring.

Pharmacology and nutrition. Winter, Spring.

Experience in collection, evaluation and dissemination of drug information in a community setting. Activities include answering drug information requests from community practitioners. CI PHARM

175.93. Cost Control & Quality Assurance. 4 (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring, Fall.

Wexler and staff. Students participate in the activities of the Infant Pediatric Pharmacy Service. Activities include routine review of patients' charts, monitoring patients' response to drug therapy, attendance at conferences, seminars and rounds, and participation in selected therapeutic conferences. CI PHARM

176.101. Nephrology—C/CD. (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring.

Students participate in the Infant Pediatric Pharmacy Service. Activities include routine review of patients' charts, monitoring patients' response to drug therapy, attendance at conferences, seminars and rounds, and participation in selected therapeutic conferences. CI PHARM

176.61. Nephrology—C/CD. (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring.

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

176.41. Hematology/ Oncology—C/CD. (1- 8) F. W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring.

Students participate in the activities of the Hematology/Oncology Consultation Service. Clinical activities include review of patients charts, coordinating patients' response to drug therapy, attendance at conferences, seminars, rounds and clinics, participation in therapeutic consultation, and pharmacy rounds. CI PHARM

176.42. Hypertension—C/CD. (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring.

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

176.80. IV Additives & Fluid Ther.-C/CD. (1-8) W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring.

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

176.81. Oncology Information—C/CD. (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring.

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

176.82. Anticoagulation—WAS. (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring.

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

176.83. Drug Information—C/CD. (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 140A or 140B. Consent of instructor. Winter, Spring.

Students participate in the services of the Hematology/Oncology Consultation Service. Clinical activities include review of patients charts, coordinating patients' response to drug therapy, attendance at conferences, seminars, rounds and clinics, participation in therapeutic consultation, and pharmacy rounds. CI PHARM

185.05. Oncology—C/CD. (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 130, 151 and 132. Consent of instructor. Winter, Spring.

Students attend work rounds, house staff management rounds and teaching conferences; learn techniques utilized in caring for patients with hematologic or solid tumors. Emphasis is placed on patient assessment, antineoplastic and pain control, hyperalimentation, and management of toxicity and infections. Project. CI PHARM


Students are responsible for patient interview, monitoring, rounds, and drug consultation. Students are primarily pediatrics with occasional adult consultations. Emphasis includes acute-coronary bypass grafts and cardiac valve replacement. CI PHARM


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

185.23. Medicine—GM. (1-8) F. W. Sp. Prerequisite: Clinical Pharmacy 144A and 144B and 149A and 149B. Consent of instructor. Winter, Spring.

Students attend rounds, interview patients and take medical histories, perform physical examinations, and evaluate and adjust drug therapy. Students will receive training in methods of basic and advanced pharmacotherapeutic medicine and drug utilization. CI PHARM


G. Dennis

Detoxification and management of alcohol and drug abuse problems. Placement in various detoxification and treatment settings. Methods of drug and alcohol assessment. CI PHARM


Students gain experience managing medical problems of adult and adolescent patients at three jail sites, participate in daily clinic, medical screening, patient monitoring, consultation and preparation of project. CI PHARM
Advanced management of resources available
able to the dentist to be presented. These
resources are auxiliary personnel, equipment,
and directed effort. DENT PUB E6TH

Dental Health Education

150. Intro to Dental Health Education. (2) F W Sp.
Prerequisite: Dental Health Education 150A-B and
160A-B. Lecture 1 hour. Lab 6-12 hours.
Francisco
A laboratory research project under di-
rection of a member of the faculty with the
approval of the chairperson of the department.
DENT PUB E6TH

Dental Hygiene

109. Clinical Dental Hygiene, (1-2) SS.
Prerequisite: Dental Hygiene 155A-B, 159, and
approval of the chairperson of the division.
Clin 5-6 hours.
Heckman
Continuation of clinical experience from
Dental Hygiene 155-A with emphasis on
improved proficiency in all areas. DENT PUB E6TH

Prerequisite: Dental Hygiene 155A-B in Clinic
6 hours.
Francisco
Advanced clinical dental hygiene techniques
including periodontal maintenance therapy;
pain control, and soft tissue curettage in cases
of moderate to advanced stages of periodontal
problems. DENT PUB E6TH

160.91-B-C. Clinical Dental Seminar, (0.5, 0.1, 0.1)
F W Sp. Prerequisite: Concurrent em-
phasis in Dental Hygiene 159, B-C variable.
Francisco
Lecture and seminar in clinic policies and
procedures, dental hygiene treatment per-
forming, periodontal maintenance therapy, clinical
photography and related topics. Students will
give case presentations during winter and
summer sessions. DENT PUB E6TH

160.91-B-C. Clinical Seminar, (0.5, 0.1, 0.1)
F W Sp. Prerequisite: Concurrent em-
phasis in Dental Hygiene 159, B-C variable.
Francisco
Lecture and seminar in clinic policies and
procedures, dental hygiene treatment per-
forming, periodontal maintenance therapy, clinical
photography and related topics. Students will
give case presentations during winter and
summer sessions. DENT PUB E6TH

162. Research Design, (2) F Prerequisite:
Dental Public Health and Hygiene 121. Lecture 2
hour. Lab 6 hours. Fundamentals of research design
67
Activities of students are determined after an initial interview with the instructor. Emphasis is placed on outpatient and inpatient care and research methods, ac-
cording to individual interests. DERMATOL.
140.02. Off-Campus Clerkship. (1/2) per week Su, F, W, F Prerequisite: Consent of instructor. Clinical clerkship in approved hospitals by special arrangement with the dean and chairperson of the department. DER-
MATOL.
140.03. Advanced Dermatology Clerk-
ship-Fresno. (1/2 per week) Su, F, W, Prerequisite: Medicine 110 and consent of instructor. Hamlin.
Activities of students are determined after an initial interview with the instructor. Em-
phasis is placed on outpatient routine and inpatient care, and research methods, ac-
cording to individual interests. DERMATOL.
150.01. Dermatology Research. (1/2) per week Su, F, W, F, Prerequisite: Consent of instructor W. L. Epstein. A research project under the direction of a member of the faculty. DERMATOL.
160.01. Clinical & Research Clerkship. (1/2) Su, F, W, F Prerequisite: Consent of W. L. Epstein. Activities of students are determined after an initial interview with the instructor. Em-
phasis is placed on outpatient routine and inpatient care and research methods, ac-
cording to individual interests. DERMATOL.
199. Laboratory Project. (1-5) W, Prerequisite: Consent of instructor. W. L. Epstein. A laboratory research project under di-
rection of instructor for the approval of the chairperson of the department. DERMATOL.
400. Staff Conference. (2) F, W, F, Epstein and Staff. Residents prepare and present case histories of patients at conferences, making reference to pertinent literature and research.
406. Related Science Seminar. (30) F, Su, W, Prerequisite: Seminar 1 hour. W. L. Epstein and Staff. In-depth discussion of the sciences basic to an understanding of the function and dys-
function of skin, including anatomy, physiology, dermatology, microbiology, pharmacology, bio-
chemistry, immunology. Three- to four-year program, covers all aspects of clinical sciences relevant to dermatology. DERMATOL.
207. Cutaneous Microbiology. (2) Su, F, W, Prerequisite: Consent of instructor. Lecture 2 hours. Aly. Course is designed to familiarize dermatology residents with the techni-
cues of isolation and identification of dermatophytes, bacteria, and fungi. Offered on specialized topics are given. DERMATOL.
510. Clinical Ethics and Legal Issues. (2) W, Prerequisite: Medicine 110. McInerney, P., Fasold, Hosok, UC Comant, StoGelli, L., Ruffinelli Bazoni, A. Professional ethics are a necessary component of any profession. This course is intended to provide for patient care in the wards and outpa-
tient clinic. Duties include historical, physical examinations, and consultations. In addition, the senior resident has certain ad-
ministrative, teaching, and clinical responsi-
bilities. DERMATOL.
541. Clinical Care Clerkship. (1 1/2) Su, W, F, Prerequisite: Dermatol. Epstein. Residents, under supervision, are responsible for the care of dermatology patients. Patient clinic: Duties include history-taking, physical examinations, and consultations. In addition, the senior resident has certain ad-
ministrative, teaching, and clinical responsi-
bilities. DERMATOL.
542. Off-Campus Clerkship. (1/2) per week Su, F, W, Prerequisite: Consent of instructor. Staff. Residents work at off-campus hos-
pitals, in the United States and other countries.
Non-block assignments with a family physician in private of office or community clinic for a minimum of 4 hours a week. Preclinical students observe their preceptors in order to gain an introduction to family medicine. CAM FM ED 106A. Introduction to Sports Medicine. (2) W, F. Prerequisite: Consent of instructor. Lecture 2 hours. Lab optional 4 hours. Effectiveness, prevention and participation of injury, rehabilitation, and education to the community. Concepts of lectures and laboratory. CAM FM ED 106A: Advanced Sports Medicine. (2) W. Prerequisite: Family Medicine. CAM FM ED 106A. Lecture 2 hours. Lab optional 4 hours. Diagnosis, treatment, and rehabilitation of specific athletic injuries organized by area and diagnosis, basically of the nonoperative approach. Emphasis on non-surgical treatment and surgical techniques of European and American techniques using concepts of combination resources and prompt surgical referral when necessary. CAM FM ED 160-05. Mission Community Hlth Eductor. (1-3) Su, W, F. W. Prerequisite: Consent of instructor. Lab 2-6 hours. Field work 2 hours. 202. S. D. Sanchez, D. Fink. Explores health care attitudes, health promotion and health resource concerns in multi-ethnic Mission Area of San Francisco. Students receive clinical assignments in one or more community health and social agencies. Field experience is arranged in seminars and fieldwork. CAM FM ED 1607-A-8. B. The Family Health Care: A Family Medicine Seminar. (2) W, F. Prerequisite: Family Medicine. Field work 4-8 hours. L. Crain. Through individualized assignments, courses provides an introduction to the broad spectrum of rehabilitation services for children and adults with chronic or disabling disease. CAM FM ED 171. Compur Applications in Hlth Care. (3) W. Prerequisite: Consent of instructor. The nature of information processing: concepts of problem solving with the digital computer, introduction to programming within a computer system, introduction to program development, and problems of current programming methodology; examples of personal applications of computer systems to the environment, CAM FM ED 172A. Medical Education--Basic Concepts. (2) W. Lecture 2 hours. Tenenhouse. Fundamentals legal principles and procedures affecting medical practice, with emphasis on medical negligence; the physician's role in the litigation process; the areas of medical practice which most frequently involve litigation; and the factors which contribute to the risk of medical liability. CAM FM ED 171A. Social & Practical Aspects. (2) W. Lecture 2 hours. Tenenhouse. Fundamental legal principles and procedures affecting medical practice with emphasis on medical negligence; the physician's role in the litigation process; the areas of medical practice which most frequently involve litigation; and practical measures to minimize the risk of liability. CAM FM ED 173. Family Practice Seminar. (1) W. Seminar 1 hour. J. Cook. Exploration of various aspects of primary care is related to family medicine. A practicing family physician and a resident provide a discussion for students of the techniques developed by the students. Introduction to the practical aspects of the issues and demands of family practice. CAM FM ED 174. Family Medicine Concepts. (2) W. Seminar 2 hours. Flinders, Richard. An introduction to the comprehensive role of the family physician in providing longitudinal health care and health maintenance for the patient. Recognition of priorities in patient care, with an emphasis on the patient as a whole person. CAM FM ED 175. Meaning of Being a Physician. (1-3) E F, W, Sp. Prerequisite: Consent of instructor. Seminar 1-3 hours. J. Cook. Exploration of the theoretical premises of Western physician's relationship to other social systems, including factors of individual dimension, and other cultural attitudes, and how these influence the holistic, biologic, and dynamic approach of patient-physician relationship operational concepts such as the clinical entity and complex of family medicine. CAM FM ED 175B. Theoretical Problems of Medicine. (1-3) F, W, Sp. Prerequisite: Consent of instructor. Seminar 1-3 hours. J. Cook. Seminar on selected writings and of topics discussed in Family Medicine. CAM FM ED 175C. Family Practice Seminar. (1) W. Seminar 1 hour. J. Cook. Seminar on selected writings of topics discussed in Family Medicine and Community Medicine. 175D. Family Practice Seminar. (1) W. Seminar 1 hour. J. Cook. Seminar on selected writings and of topics discussed in Family Medicine and Community Medicine. CAM FM ED 175E. Family Practice Seminar. (1) W. Seminar 1 hour. J. Cook. Seminar on selected writings and of topics discussed in Family Medicine and Community Medicine. CAM FM ED 176. Health Care Systems. (3) W. Lecture 3 hours. J. Cook. Seminar on selected writings and of topics discussed in Family Medicine and Community Medicine. CAM FM ED 177. Clinical Practice Seminar. (1) W. Seminar 1 hour. J. Cook. Seminar on selected writings and of topics discussed in Family Medicine and Community Medicine. CAM FM ED 177A. Clinical Practice Seminar. (1) W. Seminar 1 hour. J. Cook. Seminar on selected writings and of topics discussed in Family Medicine and Community Medicine. CAM FM ED 177B. Clinical Practice Seminar. (1) W. Seminar 1 hour. J. Cook. Seminar on selected writings and of topics discussed in Family Medicine and Community Medicine. CAM FM ED 177C. Clinical Practice Seminar. (1) W. Seminar 1 hour. J. Cook. Seminar on selected writings and of topics discussed in Family Medicine and Community Medicine.
Genetics**

Kernberg, Herskowitz

In-depth analysis of genetic mechanisms in selected procaroytes, eucaryotes. Topics include genetic recombination (consederalized and specialized transduction, transformation, and conjugation [general, sex, specific, " illegitimate" ]), mapping, metagenesis (induction and consequencen) multiple genes, elements, gene expression, metazoic and mitotic segregation, allele, position effects. BIOCHEM

215. Laboratory Rotation. (3) 6 | F, W, SP | Lab 9 hours.

A laboratory rotation course in infection biology first-year students with various approaches to study. Students are required to attend different classes, through three different laboratories in at least two subject areas, and give an open seminar at the end of each quarter. BIOCHEM

220. Current Topics. (1-5) F, W, SP.

Prerequisite: Consent of instructor in genetics.

Students will lead a discussion on a topic of current interest. Participation by the student member will be acti at each week. This is a required course for first and second-year students in genetics. BIOCHEM

250. Research. (1-6) 8, F, W, SP.

Staff

BIOCHEM

Health Sciences Education

200. Intro to Teaching Health Science. (2) F, W, SP | Lecture 2 hours.

Lem

A course for instruction in instructional techniques and strategies useful for the beginning instructor. Emphasis is on the development of effective personal teaching style. Open to advanced graduates, residents, teaching assistants, and new faculty. PHARM

220A-B. Selected Topics. (2-2) F, W, Pre- requisit: Consent of instructor. Seminar 2 hours.

Consideration of principles of learning, including individual student differences, techniques of instruction, and approaches to evaluation of student progress. Individual teaching plans are developed and critiqued. Emphasis is placed on the graduate and professional school student as a learner. MEDICINE

221. Teaching Allied Health. (2) F, W, SP. Seminar 2 hours.

Rostowski

Graduate seminar integrating clinical experience and academic course work with graduate students enrolled in Kelllogg Education Program. Relationships of course work experiences to future roles as allied health professionals are considered. Individual professional problems are assigned to students. MEDICINE


A seminar to review and develop objective criteria in assessing the clinical performance and competence of students and practitioners. Techniques will be developed and validated for a number of clinical disciplines. MEDICINE

History


B. Hartman

A lecture series on the evolution of dermatology from antiquity to the present. Modern times Emphasis is placed on the changing concept of disease and its treatment, including total restoration of the mouth, control and prevention of oral diseases. Inherent truth of the disease, the role in discovery and application of anesthetia, with constant involvement in community health problems of people over the age, are stressed. DENT PUB HTH

208. Introduction to Medical History. (3) F, W, Pre- requisit: Consent of instructor. Lecture 3 hours.

Risse

Continuation of the general survey of the Renaissance to the end of the eighteenth century with special emphasis on the mech- anisms of disease and the development of the medicalization of European society. HIST 16 SC.


Risse

Continuation of the general survey from the nineteenth century to the present, ex- amining in detail the emerging of scientific medicine, germ theory, medical technology, and twentieth century therapeutics. HIST 16 SC.

170.01 Historical Perspectives in Medi- cine. (1) 6, F, W, SP | Lecture 1 hour. Optional additional study for additional units. Risse

Course intends to develop a sense of his- torical perspective and the ability to assess present issues in the light of past experience. Emphasis is placed on the scientific and social aspects of the health sci- ences. HIST 16 SC.

370. Medical Education. (1-5) F, W, SP. Pre- requisit: Consent of instructor. Seminar 2 hours.

A seminar to review and develop objective criteria in assessing the clinical performance and competence of students and practitioners. Techniques will be developed and

Introduction to the history of neurological conditions. HIST 16 SC.

205.01. Western Medical Attitudes. (3) F, W, SP. Prerequisite: Consent of instructor.

Exploration of the theoretical premises of Western physicianism, relationship to other disciplines, such as theology and metaphysics, devot- edness, and other cultural attitudes. GUTTENBA. Consent of instructor. Lecture 3 hours.

205.02. Western Medical Attitudes. (3) F, W, SP. Prerequisite: Consent of instructor. Lecture 3 hours.

Risse

Extended reading and conferences of the history of Health Sciences 209-95, Oriental medicine. GUTTENB. Consent of instructor. Lecture 3 hours.

206. Use of History in Nurs Teaching. (1) F, W, Pre- requisit: Consent of instructor. Lecture 2 hours.

Hutson, Blaik

For nursing instructor and graduate stu- dents. Concepts of the history of the health sciences with particular emphasis on the traditional culture of nurses which practice nursing is based. Methods and examples for teaching history in the clinical setting. HIST 16 SC.

207. Historical Methods and Bibliography. (3) F, W, SP. Prerequisite: Consent of instructor. Seminar 4 hours. Risse, Zinn

Historical methods and survey of health sciences literature. Includes an introduction to medical history, modern reference works, and bibliographical methods. Required for all incoming history graduate students. HIST 16 SC.

209. Victorian Age Medicine. (2) W, Pre- requisit: Graduate standing. Lecture 2 hours.

Risse

Investigation of medical facilities in London during 1850-1870 along with modes of prac- tice, medical setting, and levels of scientific knowledge in the mid-nineteenth century. HIST 16 SC.

211. Theories of Human Nature. (3) F, W, SP. Prerequisite: Graduate status or consent of instructor.

Staff

Jogea

Classical philosophical theories of human nature will be examined in light of modern biological science, with particular emphasis on the interrelationship between biological disciplines, such as theology and metaphysics, and philosophical and scientific theories will be examined. HIST 16 SC.

220. Selected Topics. (1-2) F, W, or Sp. Prerequisite: Consent of instructor. Seminar 3 hours.

Staff

Seminar allowing individual staff or guest lecturers to present selected topics in the history of the health sciences based on their current research and publications. HIST 16 SC.

250. Research. (1-8) F, W, SP. Prerequisite: Consent of instructor.

Staff

Graduate independent research, including presentations and criticism of research sources, methods, and papers. HIST 16 SC.

252. Ethical Theory. (3) F, W, SP. Prerequisite: Graduate standing or consent of instructor. Seminar 3 hours.

Jonnesson, Joensen

Basic concepts and methods of philosoph- ical ethics, with particular emphasis on responsibility for persons and society. will be traced in classical and modern authors. Emphasis will be on the logical and ethical analysis of moral issues. HIST 16 SC.

260. Critical Thinking in Science. (3) F, W, SP. Prerequisite: Consent of instructor. Seminar 3 hours.

Staff

Supervised independent work intended to provide directed reading in subject matter appropriate to student's interests. HIST 16 SC.
Human Development and Aging

200, Off-Campus Study, (0) F W Sp. Prerequisite: Approval of graduate advisor.

Staff

Full-time graduate study in the Human Development and Aging program through on-campus, off-campus, and consortium programs. PSYCH 205, Data Analysis. (3) F W Sp. Prereq: Consent of Instructor. Lecture 2 hours.

Rosow

Students either provide their own or use accessible data from ongoing research projects. Emphasis is on training in data organi-

201, Fundamental Theories & Methods. (4-1) F W Sp. Prerequisite: Consent of In-

Kiefer

Psychological and sociological theories and methods in the study of the human life cycle. Topics include models of development, life course, adult socialization, age stratification, intergenerational groupings, and historical and cross-cultural perspectives. Personality, stress, transitions, age-comparing coping, and psychopathology. PSYCH 103.

202, Methods in Adult Devel & Aging. (2-0) F W Sp. Prerequisite: Consent of Instructor. Seminar 2 hours. Rosow, Kiefer, Chiriboga

A three-quarter course covering major models and techniques of life course and life span research including surveys, field ob-

203, Research Formulation & Rev Design. (3) F W Sp. Prerequisite: Consent of Instructor. Rosow

Students work on their own research interests in terms of problem formulation, re-

204, Neuronal Changes in Adulth. (3) F W Sp. Prerequisite: Consent of Instructor. Lecture 2 hours. Fiske

Fiske

and/or operational strategies. Emphasis dependent upon individual student needs.

Developmenatal Development. (2-0) Sp. Prerequisite: Consent of Instructor. Lecture 2 hours.

Representative works from behavioral sci-

205, Data Analysis. (3) F W Sp. Prerequisite: Consent of Instructor. Lecture 2 hours.

Research

exploration of the philosophies of knowl-

dustry which underlie medical, natural science and social science. Course offers an approach to behavioral problems in health care which recognizes medical and social science episco-

206a, Advanced Seminar on Stress. (2-2-2) F W Sp. Prerequisite: Consent of Instructor. Lecture 2 hours. Pearlin, N. A. Lieberman, Chiriboga

This presentation is based on a strong background in the concepts of stress and strain, and the elaboration of stress theory and concepts, and refinement of methodologies addressed to the treatment of patient populations.

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

Chiriboga

Course covers the major tasks of survey research. Topics such as conceptualization, the development of indicators and measures, the construction of questionnaires, sampling, field testing, interviewing, and analysis are covered. PSYCH 222.

208, The Psychology of Aging. (4-0) F W Sp. Prerequisite: Consent of Instructor. Lecture 2 hours. Rosow

Factors that influence or change over age. (3) F W Sp. Prerequisite: Consent of Instructor. Lecture 2 hours.

Rosow

are brought together in the study of person-

Human Development and Aging

170, Emergency Medical Care. (1) W Prereq: Periodontal or four-year standing. Seminar 2 hours.

The course is designed to stimulate group discussion on principles of emergency medical care. Topics include transportation, disaster planning, triage, cardiopulmonary resuscitation, arrest of hemorrhage, treatment of head injuries, and arm and leg fractures, as well as special problems unique to dentistry. STOMATOLOGY.
120. Microbiology in Pharmacy. (3) Sp. Lecture 1 hour. 

Fundamentals of microbiology for phar- 
macy students with emphasis on mechanisms 
of disease production by bacteria, fungi, and 
viruses. Antibiotics, mode of action and ge- 
etics of resistance. Microbial growth and 
infections. MICROBIOLOGY.

121. Immunology. (3) Sp. Prerequisite: 
Bacteriology I. Immunology of microorganisms, 
students in the School of Pharmacy Lecture 2 hours. 
Haldie Lectures on the fundamentals of im- 
munology, drugs in hypersensitivity and 
immunosuppression. MICROBIOLOGY.

126.A Immunology in Dentistry. (1) Sp. 
Lecture 1 hour. R. Speck Instruction in general immunology. 
MICROBIOLOGY.

126.B Microbiology in Dentistry. (5) W. 
Lecture 3 hours; laboratory 4 hours. 
R. Speck Comprehensive presentation of micro- 
organisms including bacteria, fungi, viruses, 
fundamentals of infection and resistance, 
diseases, infection, sterilization, and antimicro- 
bial agents. Laboratory studies and demonstrations 
on indigenous micro-organisms of the mouth and 
organs of microbiology to dentistry. MICROBIOLOGY.

127. Microbiology Laboratory. (2) Sp. 
Prerequisite: Concurrent Consent. 
R. Speck Students enrolled in microbiology 
course laboratory. 
MICROBIOLOGY. Lab and conference 4 
hours.

135. Medical Microbiology. (3) 
Lecture 3 hours, laboratory 4 hours. 
R. Speck Morphology, physiology, and i 
immunological techniques used in laboratory 
diagnosis of selected bacterial diseases. 
Antibiotic suscepti- 
bility, disinfection, and sterilization exercises. 
Demonstration on virology. MICROBIOLOGY.

150. Microbiology I. (4) 
Lecture 3 hours; laboratory 4.5 
week) Su F. W. Sp. Prerequisite: Microbiology 
100A and consent of instructor. 
Staff 
Research in microbiology, block elective 
for cable students. MICROBIOLOGY.

190A. Med Immunology-Grad Students. 
(3) F. Sp. Prerequisite: Biochemistry 103- 
B. Lecture 2 hours for nine weeks. Equivalent 
to Microbiology 121 and Linscott 
Lectures on the fundamentals of immu- 
nochemistry and group seminaries on patient re- 
lated problems in this field. MICROBIOLOGY.

190B. Bacteriophage Medical Microbiology. 
(6) F. Sp. Prerequisite: Biochemistry 103- 
B. Lecture 4.5 hours. Lab 5 hours. Conference 
1 hour. Equivalent to Microbiology 100B. 
MICROBIOLOGY. 

204. Molecular Immunology. (5) F. 
Prerequisite: Biochemistry 103-B. Lecture 3 
hours. Course offered in alternate years. 
Pettifor, Wahl, 
A. Weiss Course will cover the molecular 
biology of immunoglobulins, lymphocyte antigen re- 
ceptors, the major histocompatibility complex, and 
complement system. MICROBIOLOGY.

206. Pathogenic Fungi. (2) F. 
Prerequisite: Microbiology 100B and 100B 
or equivalent. 
Haldie 
A systematic review of the fungi responsible 
for human disease, emphasizing pathogenesis, 
epidemiology, and diagnostic laboratory 
procedures. MICROBIOLOGY.

208. Molec Biology of Viral Tumors. 
(3) W. F. Prerequisite: General 
biology and structure of viruses and multiplication 
of viruses. Lectures 1 hour. 
Seminar 1 hour. Offered in alternate years. 
R. Speck 
J. M. Bishop, Levintov 
The nature of viruses: dynamics of virus- 
cell interaction with emphasis on animal virus 
systems, control of expression of virus-specific 
information in lytic and temperate infection, 
and role of viruses in malignant transformation 
cells. MICROBIOLOGY.

209. Special Topics in Immunology. 
(1-5) F. W. Sp. Conference 1 hour. 
Staff 
Small group tutorial in topics and 
corequisite reading will be selected by students 
for discussion with individual faculty mem- 
bers. MICROBIOLOGY.

209A. Advanced Bacteriology 
(1-5) F. W. Sp. Conference 1 hour. 
Giaconi, W. P. Stein ©ne 
A seminar in general bacteriology. 
Microorganisms of the mouth, skin, nose, 
and throat. Techniques of examination of 
organisms and clinical significance of the 
diseases they cause. MICROBIOLOGY.

211. Medical Microbiology. 
(3) Summer. 
R. Speck This course covers basic 
practical research experience involving basic 
research in the field of medical microbiology. 
MICROBIOLOGY.

220. Selected Topics Seminar. (1) F. 
W. Sp. Seminar 1 hour. 
Staff 
General microbiology: individual research 
projects of advanced graduate students, invited speak- 
ers and staff members. Review of special 
topics and journal articles by advanced stu- 
dents. MICROBIOLOGY.

Staff MICROBIOLOGY.

(10) F. W. Sp. 
F. W. Sp. Residents are responsible for the care of 
patients, under the direction of the attending 
physicians. They are responsible for the 
ammostrations, laboratories, and clinic. 
In addition, attending physicians are responsible 
for teaching and administrative responsibilities 
required by the attending staff. NEURO SURG.

452. Clin Neurological Surgery—SU. 
(10) Su, F. W. Sp. 
P. Stein ©ne 
Residents are responsible for diagnostic and 
care of patients in wards and clinics and 
performance of studies and selected neuroradi- 
ological procedures under supervision of the 
attending staff. They also present patients at 
conferences and attend seminars and rounds at F.C. NEURO SURG.

490. Clin Neurological Surgery—SPG. 
(10) F. W. Sp. 
P. Stein Interns rotate through neurological 
surgery wards. Under the supervision of the attending staff, they are responsible for the care of pa- 
ts, including history-taking, physical examinations, 
laboratory studies, diagnostic procedures, and consultation. NEURO SURG.
service delivery, factors critically influencing the utilization and management of community-based long-term care: FAM HETH

215C. Community Health. (3-2) F W. prerequisite: Consent of instructor. Lecture 2 hours, laboratory 3 hours. M. Duffy.

Course explores theories, concepts and principles pertaining to the practice of community health. Emphasis will focus on positive health factors and interaction within families, groups, health systems and agencies. FAM HETH


Exploration of analytic planning models applicable to community health services. Use of planning tools to assist in the planning and delivery of health care. Emphasis is on the role of community agencies in health planning. MENT HETH COM


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


Course explores theory related to the psychosocial experiences of infants and children and their families, theoretical concepts and developmental orientation. Emphasis is directed to minimizing trauma and promoting growth. Concurrent practices are recommended. PHYSIOL NURS/FAM HETH

218A. Care of Ill or Injured. (3-4) F W. prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. M. Duffy.

Course is designed for graduate psychiatric nursing students to examine and discuss various theoretical approaches to assessment of behavior and care of adult psychiatric patients. Focus on the care of adult psychiatric patients. Emphasis on diagnostic and treatment material. MENT HETH COM

218B. Psychiatric/Mental Health Nursing. (3) F W. prerequisite: Consent of instructor. Lecture 3 hours. Lab 3 hours. M. Duffy.

This seminar guides doctoral students in the design and conduct of research in specialty areas: cross-cultural and intercultural nursing and mental health and community nursing. MENT HETH COM


A seminar which guides students in the design and conduct of research in specialty areas in family health care. FAM HETH


Student observes the theoretical basis for the care of patients following physical illness or injury. Nursing practices which promote optimal adaptation and development are evaluated utilizing relevant research as a base. Psychological laboratory: optional. PHYSIOL NURS

218B. Concepts in Cardiac Surgical Nurs. (3) F prerequisite: Cardiac physiology and pharmacology. Seminar 3 hours. Skow

Course analyzes the needs of cardiovascular surgical patients. Physiological and pharmacological interventions and surgical interventions are explored. Issues in clinical management are discussed from the theoretical perspective and compared and contrasted with clinical practice. PHYSIOL NURS

218B. Physical Assessment of Adults. (3) F W. prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Skow.

Course is designed for graduate psychiatric nursing students to examine and discuss various theoretical approaches to assessment of behavior and care of adult psychiatric patients. Focus on the care of adult psychiatric patients. Emphasis on diagnostic and treatment material. MENT HETH COM


Course critically analyzes scientific principles and applications in adult physical assessment, gynecologic diagnostic and therapeutic procedures in the management of health care of women throughout pregnancy, labor, delivery and the postpartum period. FAM HETH—UCSD


This seminar addresses the theoretical background of the normal physiology of pregnancy. Emphasis is placed on the intrapartum period with facilitation of normal processes and patient teaching. FAM HETH—UCSD


Course explores the theoretical concepts and behaviors of the typical postpartum woman. Emphasis is placed on the theoretical background of the normal physiology of pregnancy. Emphasis is placed on the intrapartum period with facilitation of normal processes and patient teaching. FAM HETH—UCSD


Behavioral theory will be presented and research related to the theory will be reviewed. The relationship of the theory to future research and to clinical application will be discussed. PHYSIOLOGI NURS.


Theories of psychogenesis, the natural science of mental disease and the mechanisms of action of certain therapeutic agents will be discussed. The clinical relevance of the associated psychopathological changes will be emphasized. PHYSIOL NURS


Behavioral theory will be presented and research related to the theory will be reviewed. The relationship of the theory to future research and to clinical application will be discussed. PHYSIOLOGI NURS.

225. Behavioral Issues in Fam Hth. (3) F W. prerequisite: Consent of instructor. Seminar 2 hours every other week. Nielsen

Seminar deals with advanced clinical issues in community health and family nursing: theoretical and clinical behavioral theories leading to clinical intervention in family primary care. FAM HETH

226A. Chronic Illness & Nursing. (3) F prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Hallberg

Course offers a study of problems related to long-term illness. Explores the interrelationships of various cultural, psychosocial, and pathophysiological factors involved in chronic illness. Field experience included. FAM HETH

226B. Chronic Illness & Nursing. (3) F W. prerequisite: Nursing 226A or consent of instructor. Lecture 2 hours. Lab 2 hours. Hallberg

Course further explores the chronic illness involved in the illness careers of patients with chronic illness and their families, including implications of nursing care. Emphasis is on the interrelationship of various cultural, psychosocial, and pathophysiological factors involved in long-term illness. Field experience included. FAM HETH

227. Psychiatric Conditions Theories. (2) F prerequisite: Consent of instructor. Lecture 2 hours. J. G. Lipson

This is a lecture-seminar with emphasis on comparative study and analysis of selected theories. Emphasis will be on the theories of major psychiatric conditions. Se-

228. Statistical Analysis Crtisip. (3) F prerequisite: Consent of instructor. Lecture 2 hours. Gortner

Basic statistics course. Open to doctoral students only, others by permission of instructor. Lecture 3 hours. Ferketich

The course emphasizes the critique of the statistical analysis of nursing research. Statistical tests are evaluated by using the criteria of logical consistency between research question, design, statistical method, and con-

230. Legislative Processes. (2-4) F prerequisite: Consent of instructor. Lecture 2 hours. Lab 3 hours. Hallberg

Exploration of legislative processes which affect professional practice. Analysis of strat- egies and techniques used in the development and evaluation of legislation. Emphasizes con- cepts and principles of professional legislation and systems government of interrelatedness, role of research and expertise in poli-

231. Cardiac-Pulmon-Renal Pathophysiology. (3) F prerequisite: Three units graduate- level organ system physiology or consent of instructor. Lecture 4 hours. M. Duffy

Emphasis on pathophysiology applicable to nursing care. FAM HETH

232. Adult Pharmacology. (3) F prerequisite: Consent of instructor. Lecture 5 hours. M. Duffy

This course is designed to allow the nurse clinician to manage drug therapy in selected chronic disease states. FAM HETH

233A. Visual Data Study of Human Behav. (3) prerequisite: Consent of instructor. One course in research, question, design, statistical method, and con-
methods. Graduate standing and consent of instructor. Lab 5 hours. Seminar 2 hours.

Highly reflective. The use of still photography in the study of human behavior and health care. Includes the study of photography’s impact on social and health care providers. Issues related to design, sampling, and consent analysis. FAM HEITH 233. "Consent Analysis, (1-2) F. Prerequisite: Nursing 23A and students using photography in their research. Lab 2 hours.

Highly selected. Emphasis is placed on the content analysis of photographs used as data source in research. Criteria measures for analysis will be explicable through student's own data. FAM HEITH 234. "Physical Exercise Research Seminar. (5) F, W, S. Prerequisites: Education 146 and consent of instructor. Course evaluates research in the student's area of specialization. Emphasis is on critique of current research. Seminar: synthesis of the evaluation of study results in the identification of major research question areas in the field. PHYSIOLOGIC, NURSING.


Task oriented. Course is a study of the physiological, psychological, and sociological aspects of aging. Focus is on selected theories and research related to the aging process and the utilization of aging. Seminar: study of a variety of settings of the aged. PHYSIOLOGIC, NURSING.

236. Expendent Parent Group Education. (2, 3) F. Prerequisite: Consent of Instructor. Lab 3 hours. Seminar 2 hours.

Theoretical sessions are related to method and techniques of conducting expendent group Parent education. Content related to concerns of expectant parents encompassing childbirth and early child rearing experiences. Concurrent prac- titioners are encouraged and recommended, but not required. FAM HEITH 237. Health Assessment Through Life. (3) F, W. Prerequisite: Departmental approval. FAM HEITH 238. Graduate Health Care Nursing Students. Approval by FEM. CGS program participants required. Lectures 2.5 hours Lab 5 hours.

Goldman. Course presents theoretical principles of health assessment throughout the life cycle. Areas to be covered include methodologies of data gathering and data analysis essential to comprehensive health assessment of all groups. Laboratory experience provides application and integration of theory. FAM HEITH 238A. Infant & Child Development. (3) F. Prerequisite: Consent of instructor. Lecture 3 hours. Seminar 2 hours.

Course covers major theories and research related to the physical, mental and emotional development of the child from birth through school age. FAM HEITH 238B. Adolescent Development. (3) S. Prerequisite: Consent of instructor. Lecture 3 hours. Seminar 2 hours.

Sawada. Course covers relevant theory, literature, and research findings dealing with normal development during the adolescent period. FAM HEITH 239. Young & Middle Adult Development. (3) F. Prerequisite: Graduate standing. Child Development, and consent of instructor. Lab 3 hours. Seminar 2 hours.

This seminar, using an anthropological, sociological, and psychological perspective, will deal with the developmental theory and research from young adulthood through the middle age adulthood years. Current issues in young and middle adulthood will be discussed with an emphasis on implications for health care. FAM HEITH 240A. Family Primary Care I. (5) F. Prerequisite: Enrollment in Family Nurse Practitioner Program and Nursing 237. Lecture 5 hours.

Theories, concepts and knowledge for comprehensive assessment and management of physical health and illness conditions throughout the life cycle will be presented. Emphasis will be on primary care of the family unit. FAM HEITH 240B. Family Primary Care II. (5) W. Prerequisite: Nursing 240A. Lecture 5 hours. Seminar 2 hours.

Carol. Theories, concepts, and knowledge for comprehensive assessment and management of selected episodic, stable chronic illness and related health conditions throughout the life cycle will be presented. Emphasis will be on primary care of the family unit. FAM HEITH 240C. Family Primary Care III. (5) S. Prerequisites: Nursing 240A and 240B Lecture 5 hours. Seminar 2 hours.

Staff. Theories, concepts, and knowledge for comprehensive assessment and management of special problems in family primary care will be presented. Emphasis will be on primary care of the family unit. FAM HEITH 241A. Collaborative Role Development. (2, 3) F. Prerequisite: Consent of instructor and concurrent enrollment in primary care clinical residency. Seminar 2 hours. NURSING, Medical Faculty.

Seminar deals with critical analysis of issues and problems concerning the role of the nurse in primary care. Emphasis on philosophy, interaction, role conflict, role making, conflict resolution, and effective interface within the health care system. FAM HEITH 241B. Collaborative Role Development. (1-2) F. Prerequisite: Consent of instructor and concurrent enrollment in primary care clinical residency. Seminar 1 hour.

Seminar deals with critical analysis of issues and problems concerning the role of the nurse in primary care. Emphasis on team management skills, health care system issues, and economic and legal considerations. FAM HEITH 242. Individual Psychotherapy Modalities. (2) F, W. Prerequisite: Consent of instructor. Seminar 2 hours.

Staff. Seminar is designed for graduate students in the advanced study of individual psychotherapy. Theories and practice approaches of various individual psychotherapy modalities in current use. MENT HEITH COM 243. Group Psychotherapy Modalities. (2) F, W. Prerequisite: Consent of instructor. Seminar 2 hours.

Furuta Seminar is designed for graduate students of the advanced study of group psychotherapy. Theories and practice approaches of various group psychotherapy modalities in current use. MENT HEITH COM 244A. Res. Individ, Fam, Comm. or (Comm. F). Prerequisite: Completion of first year. Seminar 2 hours. Lab 2 hours. Lecture 2 hours. Chafetz, Gillis, C. Robinson. Nursing 244A-B-C prepares students for original research through consideration of content methods and issues in an area of specialization. Nursing 244A focuses on evaluation of a content area and generation of research questions within it. Nursing 244B. Res. Individ, Fam, Comm. or (Comm. F. Prerequisite: Consent of instructor. Lecture 2 hours. Gilliss, C. Robinson. Nursing 244B-C builds upon prior research to content prepare students to develop and defend a plan for original research. Nursing 244B focuses on identification of research questions, assessment of design methods in the students' areas of interest.

244C. Res. Individ, Fam, Comm. or (Comm. F. Prerequisite: Consent of instructor. Lecture 2 hours. G. Robinson. Nursing 244C builds upon prior research content in the Ph.D. program to prepare students for research through consideration of content, methods, and issues in the students' areas of interest related to their area of interest or future goals. 250. Research. (1-4) F, W. Prerequisite: Consent of instructor. Theoretical and applied study of research problems in nursing. Students may select areas for study which are related to their area of interest or future goals. 250A. Research. (1-4) F, W. Prerequisite: Consent of instructor. Dowd Seminar is designed for doctoral study and consent of instructor. Seminar 2 hours.

Course offers students an opportunity to engage in research with selected faculty. 251. Int/Con-Cultural Nurs Research. (5) F, W. Prerequisite: Nursing 211A or equivalent and consent of instructor. Seminar 3 hours.

Meile. Focus on theory and research selected international health nursing problems. Emphasizes working with high-risk populations examining situational stress, adaptation, and coping strategies in transition, utilizing scarce resources, and utilizing appropriate technology. MENT HEITH COM 252. Int/Con-Cultural Nurs Negr. (5) S, W, Prerequisite: Consent of instructor. Seminar 3 hours.

Davis. Seminar examining selected international nursing issues including primary care, nursing education and nursing service, women's roles and other international issues. 253. Assessment of the Ill or Injured. (3) F. Prerequisite: Consent of instructor. Lab 2 hours. Enroll-ment limited. 254. Fitzgerald. Provides an advanced knowledge base for history-taking and assessment of the ill or injured. Clinical laboratory is required. 255. Care. Nutritional. (2) S. Prerequisite: Consent of instructor. Seminar 2 hours.

256. Home-Health Care. (2) S. Prerequisite: Consent of Instructor. Seminar 2 hours.
Course focuses on gynecological and chronic health problems, emphasizing educational and career development, family planning, and service delivery with emphasis on creative approaches and testing new models and the application of research findings.


Focus on selected ethical theories and dilemmas, design and implementation of research, and the ethical implications of research and patient care. MENT HCOM 268. Psychiatric Liaison Nursing. (2) F, W, Sp. Prerequisite: Nursing 212A and enrollment in the child or adult psychiatric nursing specialty track. Department of Mental Health and Community Nursing, or consent of instructor. Lecture 2 hours. Chafez provides psychiatric liaison nursing course covering theories and models of psychiatric liaison nursing. Topics include role function in mental health care, psychiatric assessment techniques, and ethics in health care practice.

271C. Adult Primary Care Clin Mgt. (2-4) F, W. Prerequisite: Consent of instructor. Lecture 2 hours. Independent mandatory pre-clinical training for continuing education and improvement.

In summary, the course content includes a wide range of topics from foundational knowledge in health promotion to advanced clinical skills in managing chronic health conditions and ethical dilemmas in nursing. The course is designed to provide a comprehensive understanding of various aspects of patient care, emphasizing ethical considerations, and preparing students for professional practice.

The structure and organization of the occup-

ied health process, including risk assessment, con-

trol mechanisms for worker protection, labor-

management relations, and costs are analyzed. Emphasis is on planning, de-

veloping, and evaluation of occupational health programs. MENT HETH COM

274. Health Hazards of Workplace. (3) § F W Prerequisite: Consent of instructor. Lecture 5 hours. Gliniewicz

This is a prevention-focused course for nurses and other health professionals em-
phasizing recognition of chemical, biological, physical, and ergonomic hazards of work, identification of appropriate preventive monitoring methods, selection of health sur-
veillance and protective measures, and impact on health promotion techniques. MENT HETH COM

275A. Physiology of Nursing. (3) F W Prerequisite: Lecture 1.5 hours. Study of physiologic principles applicable to nursing. Focus is on normal cell functions, physiological maintenance, and endocrine and nervous system functions which serve as a basis for nursing practice. Phipps

275B. Physiological Basis for Nursing. (1.5) § F W Prerequisite: Lecture 1-3 hours. C. Robinson

Study of physiological principles applicable to nursing. Focus is on normal function of gastrointestinal, cardiovascular, renal and pulmonary systems which serve as a basis for nursing practice. MENT HETH COM

275C. Neonatal Pathophysiology. (2) § Prerequisite: Lecture 3 hours. Provides a study of the major disease processes encountered in the neonate and their relationship to nursing practice. Emphasis is on specific etiology, manifestations, treatment and prevention of illness. MENT HETH COM

276. Theoretical Perspectives in Nurs. (3-4) § F W Prerequisite: Consent of instructor. Lecture 2-3 hours. Seminar 3 hours. Comparative study of selected nursing concepts and theories and their impli-

cations for nursing practice, curriculum development and research. Critique of theories and their relation to key questions relevant to nursing practice, goals, intervention focus and outcomes, re-

search methodology and significance. PHIL HETH PHYS HETH

277. Illness Management Research. (3) § F W Prerequisite: Nursing 211A, or graduate course on research methods in social science, or consent of instructor. Lecture 2 hours. Lab 1 hour. Course may be repeated for credit. Reif

This course is for candidates for conducting exploratory research on social-psychological and organizational aspects of health care which affect the management and delivery of health services. Problems of identification, collection and analysis of data, and presentation of findings and policy im-

plications of research are included. FAM HETH

278. Nursing Science History & Philosoph. (3) § F W Prerequisite: DNS/RN/MD student standing or consent of instructor. Lecture 2 hours. Seminar 2 hours. Course provides an analysis of the history and philosophy of nursing science in the United States, focusing on the origins of scientific questions and methods in nursing, and the debates currently ongoing, regarding definition, credibility, design, con-

structs, and methodology of research. MENT HETH COM

278A. Family Nursing-Theory Perspectives. (3) § F W Prerequisite: Lecture 2 hours. Seminar 1 hour. Course investigates family models and family dynamics as they relate to nursing practice and research. Lectures explore family issues associated with health and illness be-

tween families and their primary care providers and their events. Seminar focuses on applying concepts to interactions with families. FAM HETH

279B. Research Methodology. (3) § F W Prerequisite: Consent of instructor. Lecture 5 hours. Research in Nursing. Glibbis

Seminar in family methodology which crit-

icates research studies and instruments that test hypotheses. Focus also is on develop-

ment of a model to explain a phenomenon occurring during pregnancy or early moth-

erhood. FAM HETH

279C. Family Therapeutics. (2) § F W Pre-

requisite: Consent of instructor. Seminar 2 hours. Nilsen

Seminar integrates family theoretical and therapeutic concepts. Focus will be on family structural and developmental model of assessment and interventions for identified family problems. FAM HETH

280. Interpersonal Communication & Relat. (3) § F W Prerequisite: Lecture 2 hours. Hess

Course introduces principles of older adult health care through communication and in-

tervention. Focuses on health risks according to age, sex, illness history, and health habits. Emphasizes health promotion, illness pre-

vention, and rehabilitation facilitation within context of older adult's environment. MENT HETH COM

280A. Research Seminar: Heth & Its Correlates. (2) § F W Prerequisite: Enrollment in PhD program in nursing or consent of instructors. Seminar 2 hours. Course provides an overview of research methodology and design. FAM HETH

280B. Topics in Physio Nurs: EKG. (3) § F W Prerequisite: Graduate standing or consent of instructor. Lecture 3 hours. Seminar 2 hours. Focus will explore clinical assessment of patients in a variety of institutions, and its relationship to nursing practice. PHIL EKG HETH

281B. HETH & Its Correlates. (1.5) § F W Prerequisite: N281A and enrollment in PhD program in nursing, or consent of instructor. Lecture 2 hours. Seminar 1 hour. Examines psychiatric, sociologic, economic and cultural factors as they influence health and illness. PHYS HETH

283A. Research in Stress & Coping. (3) § F W Prerequisite: Consent of instructor. Lecture 3 hours. Seminar 2 hours. Miller

Course explores the relationship of stress and coping to health and illness. Examines theoretical and empirical links be-

tween coping strategies and physical health outcomes. Emphasis is on research pro-

grams. PHYS HETH NURS HETH

284A. Research in Stress & Coping–Cardio-

monary. (3-4) § F W Prerequisite: Nursing 283A. Lecture 5 hours. Proposal development optional one unit. Benner

Course explores the current nursing, health,

healthcare, and epidemiologic research relat-

ing stress and coping to the etiol-

ogy and course of cardiovascular disease. Focus will include assessment of coping

resources, strategies, and helping in the care of patients with cardiovascular disease. FAM HETH

286B.2D. Stress & Coping–Cancer. (5-4) § Prerequisite: Nursing 286:01B. Lecture 5 hours. Proposal development optional one unit. Benner

Course examines the current nursing, health,

and epidemiologic research relating stress and coping to the etiol-

ogy and course of cancer. Focus will include assessment of coping

resources, strategies, and helping in the care of patients with cancer. FAM HETH

286C. Research in Stress & Coping. (3) § F W Prerequisite: Consent of instructor. Lecture 3 hours. Seminar 2 hours. Miller

Course explores the relationship of stress and coping to health and illness. Examines theoretical and empirical links be-

tween coping strategies and physical health outcomes. Emphasis is on research pro-

grams. PHYS HETH NURS HETH

287A. Organizational Research on Nurs. (4) § Prerequisite: Consent of instructor. Lecture 3 hours. Styles

Focus will be on organizational outcomes and analysis of managerial research in nurs-

ing. FAM HETH

287B. Behavior in Organizations. (5) § F W Prerequisites: Nursing 287A and 3 credit hours of instructor. Lecture 5 hours. Staff

Examines the characteristics, causes, and conse-

quences of individual behaviors and behav-

ioral processes of individuals as they function in or-

ganizations, with emphasis on personnel man-

agement and work team intervention. MENT HETH COM

288A. Process in Administration. (3) § Prerequisite: Nursing 287A and 2 or consent of instructor. Lecture 5 hours. Staff

Provides a synthesis and application of leadership, communication, conflict resolution, and decision making processes. Emphasis on leading, planning, organizing, controlling, decision-making, managing change, and evaluating MENT HETH COM

288B. Executive Nursing Administration. (3) § F W Prerequisite: Consent of instructor. Lecture 5 hours. Bailey

Seminar offered to doctoral students in nurs-

ing administration, which synthesizes and evaluates major decision theories and ap-

proaches with the practical experience of the nurse administrator. MENT HETH COM

288C. Academic Administration. Seminar. (3) § Prerequisite: Consent of instructor. Seminar 3 hours. Staff

Styles

Seminar designed for doctoral students in nurs-

ing administration intended for the field of admin-

istrative analysis. Seminar focuses on admin-

istrative theories, models, principles, and prac-

tices relative to administrative roles in diverse academic settings. MENT HETH COM

Rosengast, Danford
Clinical oral pathology for the dental hygienist. Diagnosis and management of some common oral lesions are covered. Use of diagnostic aids and methods of treatment are emphasized. STOMATOLOGY

170. Temporomandibular Joint Disease. (1) Sp. Prequisite: D.D.S. degree with an instructor, fourth-year students may take this course as an elective. R. Taylor
Seminar series covering differential diagnosis and treatment approaches to temporomandibular joint disease. STOMATOLOGY


Christie
A comprehensive study of the oral pathology with emphasis on their histopathologic aspects. STOMATOLOGY

179. Oral Medicine. (62) F. W. Prequisite: D.D.S. degree with consent of instructor, fourth-year students may take this course as an elective. Due to patient commitments in the clinic, students, once selected, may not withdraw. Clinic: 10-20 weeks. R. Taylor
Participation in the Temporomandibular Joint Clinic applying knowledge of history-taking and differential diagnosis and utilizing such diagnostic techniques. STOMATOLOGY


S. Silverman and Staff
Clinical pathology conference: biology, diagnosis, and treatment of various diseases and associated patient problems. Some oral conditions are critically re-evaluated in the light of current research advances. Specific medical knowledge is related to patient care.

189. Acute Dental Care Clerkship. (1-1-10) Su, F. W. Sp. Clinic: 30 hours per week. R. Rosengast, Danford
Advanced instruction and clinical experience in the diagnosis and treatment of acute dental problems. Consent of student/clinician. 3 clinic hours. S. Silverman
Participation in the Oral Surgery Clinic to study oral pathologic processes that require application of knowledge and treatment in the field of histopathology. Applications of newer techniques and concepts are presented to increase understanding in health and disease. Oral pathology, diagnosis, and therapeutics are focused. STOMATOLOGY

400. Maxillofacial Prosthetics. (0.5-1) F. W. Lecture 1 hour. Zhotolow
Course is designed to acquaint residents and fellows with the multidisciplinary aspects of oral/maxillofacial prosthetics. Lectures will be given on multidisciplinary prosthodontics, occlusion, oncology, head and neck surgery, plastic surgery, oral surgery, dentistry, and related fields.


S. Silverman
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; hospital rounds and weekly seminar. STOMATOLOGY

189.03. General Dentistry Clerkship. (1-1) per week. F. W. Prequisite: Fourth-year standing and approval of Clinic Review Committee.

S. Silverman, Ware
Students provide comprehensive dental care to patients assigned to them, under supervision of staff in the medical and hospital environment. Students also attend seminars and conferences.

Review of oral diseases most relevant to physicians. Etiology, diagnostic criteria, diagnosis and treatment, and pain and infection control of acute dental problems. STOMATOLOGY

190. A-C. Clinical Pathology Conference. (1-1-1) F. W. Prequisite: Fourth-year standing. Lecture; 11 hours.

S. Silverman and Staff
Clinical pathology conference: biology, diagnosis, and treatment of various diseases and associated patient problems. Some oral conditions are critically re-evaluated in the light of current research advances. Specific medical knowledge is related to patient care.

195. Laboratory Project. (1-1-1) W. F. W. Staff
A laboratory research project under di innership of the faculty concerning the approval of the chairperson of the department.

S. Silverman
Advanced considerations in the field of histopathology. Applications of newer techniques and concepts are presented to increase understanding in health and disease. Oral pathology, diagnosis, and therapeutics are focused. STOMATOLOGY

400. Maxillofacial Prosthetics. (0.5-1) F. W. Lecture 1 hour. Zhotolow
Course is designed to acquaint residents and fellows with the multidisciplinary aspects of oral/maxillofacial prosthetics. Lectures will be given on multidisciplinary prosthodontics, occlusion, oncology, head and neck surgery, plastic surgery, oral surgery, dentistry, and related fields.


S. Silverman
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; hospital rounds and weekly seminar. STOMATOLOGY


S. Silverman
Participation in the Temporomandibular Joint Clinic applying knowledge of history-taking and differential diagnosis, utilizing such diagnostic techniques as laminographic X-rays, occlusion, occlusal studies, and special joint tests on oral surgical residents. Interprets results, prescribes treatment, and follows up with patient reviews. STOMATOLOGY

190.1. Intro to Clinical Radiology. (0.5-1) P. W. Prequisite: Oral Diagnosis 111 and Oral Radiology 121. Lab rotation 24 hours.

Kircos
Clinical experience in full-mouth radiography; emergency radiography; laminography, panora mic radiography, digital subtraction radiography and quality control. Application of anatomy, pathology and previous didactic experience in the interpretation of radiographs in establishing differential diagnosis. STOMATOLOGY

190.02. Clinical Rotation in Radiology. (0.5-1) F. W. Prequisite: Oral Radiology 121 and 109.01. Clinic and seminar. Kircos
Clinical experience and small group instruction in the interpretation of radiographs are provided in oral radiology at the advanced predoctoral level. STOMATOLOGY


Kircos
Introduction to principles of diagnostic radiology with foundations in physical and biologic sciences. Includes historical contributions to radiology, production of X-ray, interactions of X-rays with matter, biological effects of ionizing radiation, applications of radiologic health, radiographic equipment and techniques, and photomechanical STOMATOLOGY

120. Radiographic Interpretation. (1) P. W. Fundamentals of radiographic interpretation, some of the basic physics of X-ray generation, and radiation biology.

STOMATOLOGY


Kircos
Introduction to intraoral radiography where the student demonstrates radiographic competence on mannequins and panoramic equipment. Participation in the California Board of Dental Examiners examination on radiation safety. Provides radiographs for interpretation to the clinic. STOMATOLOGY


Kircos
Course is a continuation of Oral Radiology 121 and is intended to broaden the scope of the faculty member's radiographic knowledge concerning radiation biology are also included. STOMATOLOGY

135. X-Ray Technique. (1) W. Lab 3 hours.

Rosengast
A course in intraoral X-ray technique including principles of technique, planning and procedure, and practice on mannequins and, where possible, human teeth. STOMATOLOGY

160. Introral & Panoramic Radiography. (1) F. W. Prequisite: Oral Radiology 150 and 150.01. Lecture 6 hours.

Kircos
Course offers, in addition to introral techni que, instruction and experience in pano ramic radiography. STOMATOLOGY


Kircos
Approval of Clinic Review Committee Seminar 1 hour. Clinic: 60 hours. Parks
Continuation of Oral Radiology 121 and 121 in a seminar teaching format.

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

190. Oral Surgery. (0.75) SS. F. W. Prequisite: Third-year standing. For
Orthodontics

109. Clinical Orthodontics. (0-5 F) W, Sp, SS1, SS2. Prerequisite: Orthodontics 121 and 153A. Orthodontics 131B may be taken concurrently. K. Boyd


121. Development of Occlusion. (0.5) Sp. Lecture 1 hour. Course describes the mode of growth of the craniofacial complex. General aspects of growth with clinical implications for the growing child are discussed, including the embryologic and genetic factors and their correlation with facial growth. GR DEVL

131-A. Orthodontics in General Practice. (0-5) F, 2nd term. Prerequisite: Limited to residents. (2-2-2-2-2) 1 hour. R. Boyd, Beirne Recognition and treatment of the problems most commonly seen by the general practitioner. GR DEVL

160. Orthodontic Concepts. (1.5) Sp. Lecture 1 hour. A laboratory research project under direction of a member of the faculty with the approval of the chairman of the department. GR DEVL

199. Clinical Orthodontic Seminar. (0-5) F, 2nd term. Prerequisite: Enrollment in orthodontics residency or general practice residency program. Conference 0-5 hours.


174. Oral Surgery Seminar. (1) Lecture 1 hour. Prerequisite: Limited to interns and residents. Seminar 1 hour. R. Smith Seminar includes presentation of case studies, literature review, clinical patient preparation and occasional guest lectures. STOMATOLGY


121. Development of Occlusion. (0.5) Sp. Lecture 1 hour. Course describes the mode of growth of the craniofacial complex. General aspects of growth with clinical implications for the growing child are discussed, including the embryologic and genetic factors and their correlation with facial growth. GR DEVL

131-A. Orthodontics in General Practice. (0-5) F, 2nd term. Prerequisite: Limited to residents. (2-2-2-2-2) 1 hour. R. Boyd, Beirne Recognition and treatment of the problems most commonly seen by the general practitioner. GR DEVL

160. Orthodontic Concepts. (1.5) Sp. Lecture 1 hour. A laboratory research project under direction of a member of the faculty with the approval of the chairman of the department. GR DEVL

199. Clinical Orthodontic Seminar. (0-5) F, 2nd term. Prerequisite: Enrollment in orthodontics residency or general practice residency program. Conference 0-5 hours.


174. Oral Surgery Seminar. (1) Lecture 1 hour. Prerequisite: Limited to interns and residents. Seminar 1 hour. R. Smith Seminar includes presentation of case studies, literature review, clinical patient preparation and occasional guest lectures. STOMATOLGY


121. Development of Occlusion. (0.5) Sp. Lecture 1 hour. Course describes the mode of growth of the craniofacial complex. General aspects of growth with clinical implications for the growing child are discussed, including the embryologic and genetic factors and their correlation with facial growth. GR DEVL

131-A. Orthodontics in General Practice. (0-5) F, 2nd term. Prerequisite: Limited to residents. (2-2-2-2-2) 1 hour. R. Boyd, Beirne Recognition and treatment of the problems most commonly seen by the general practitioner. GR DEVL

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growth and development and the application of potential diagnosis is presented. GR DIVER.

173A-B. Orthognathic Surgery Con fronts. (1) 1.12 p.m. F. W. Sp. Preoperative appliances, their fabrication, and roll in postdoctoral orthodontic or pe- diatric oral surgery. F. W. Sp. Chairman of instruct. Lecture 1 hour. LCT Postdoctoral students in orthodontics, preoperative appliances will participate in evaluating and planning appliances for maxillary and mandibular deformities requiring combined multidisciplinary therapy. Periodic review and presentation of previously treated patients will be included. GR DIVER.

174. Biomechanics & Tools Movement. (2) 10.35 a.m. F. W. Sp. Preoperative enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 2 hours. YOSHIDA Fundamental concepts of form, motion and force have been assumed to be equalitarian, force free equivalency, and free body analysis. Concepts will be related to orthodontic tooth move- ment, appliance design, and biological re- verse to force application. GR DIVER.

174.1. Periodontics & Orthodontics. (1- 2) F. W. Sp. Preoperative enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour. R. Boyd Literature in periodontics and orthodontics is reviewed and discussed. Case presentations involving treatment between the two specialties are discussed and evaluated by students and faculty. Emphasis is placed on the advances in preventive procedures and their impact on orthodontic practice. GR DIVER.

174.2. Orthodontic Techniques. (1) SSI, SS2. Preoperative enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour. R. Boyd Treatment and evaluation of orthodontic patients, as experienced in postdoctoral and dental practice. Postdoctoral students will assist and supervise general dental students in the diagnosis, evaluation, and treatment of orthodontic patients. R. Boyd.

181. Adv. Orthodontics in Gen Pract. (0.5) F. W. Sp. Preoperative Orthodontics 135B Seminar 1 hour R. Boyd, R. Boyd 3rd and 4th-year dental students will participate in weekly one-hour discussion sessions, focusing on contemporary orthodontic literature. Lab: clinic 0.25 hours. LCT Diagnosis, treatment, and evaluation of clinical postgraduate orthodontic problems as experienced in modern orthodontic prac- tice. Students will treat patients with a broad spectrum of orthodontic problems. Students will work with other specialists in the management of complex orthodontic problems.

191-B. Preoperative Enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour. N. C. Johnson A lecture series covering current and in- novative orthodontic procedures. Case dis- cussions, presentations, and demonstrations are illustrated by microscopic slides andographs of gross specimens. ORTHO SURG

203. Microsurgical System. (1) F. W. Sp. HC/CE Seminar series cover current tissue metabol- ism, muscle, bone, and joint physiology. Preoperative and postoperative management is discussed in patients with wound infections, microodontia, and surgical principles. ORTHO SURG

210. Oral Pathology. (1) F. W. Sp. Preoperative 3rd and 4th-year dental students will follow cases presented by the attending staff. ORTHO SURG

220. Caries Clinic—Surgery. (1) F. W. Sp. Preoperative Seminar 1 hour. C. J. Johnson and 111 include seven to eight orthodontic lectures, seminars, and demonstrations are illus- trated by microslides and photographs of gross specimens. ORTHO SURG

224. Oral Health. (1) F. W. Sp. HC/CE seminar cover current tissue metabol- ism, muscle, bone, and joint physiology. Preoperative and postoperative management is discussed in patients with wound infections, microodontia, and surgical principles. ORTHO SURG

225. Gross & Functional Anatomy. (1) F. W. Sp. HC/CE Seminar includes lectures by students and faculty on gross and functional anatomy, laborato- ry dissections of cadaver material and demonstrations of surgical approaches. OR- THO SURG

228. Orthognathic. (1) F. W. Sp. Preoperative Seminar in orthognathic surgery 1 hour. S. M. DeBem, C. J. Johnson and 111 include seminars in oral surgical surgery in off-campus hospitals offered in off-campus hospitals approved by the chairperson of the department and the division of oral surgery. ORTHO SURG

140.3. Rehabilitation Medicine—5 04 (1-1/2 hours) F. W. Sp. Preoperative Medicine 110 or Pediatrics 110 Seminar 1 hour. R. Boyd and 4th-year dental students will participate in weekly one-hour discussion sessions, focusing on contemporary orthodontic literature. Lab: clinic 0.25 hours. LCT Diagnosis, treatment, and evaluation of clinical postgraduate orthodontic problems as experienced in modern orthodontic prac- tice. Students will treat patients with a broad spectrum of orthodontic problems. Students will work with other specialists in the management of complex orthodontic problems.

174.2. Orthodontic Techniques. (1) SSI, SS2. Preoperative enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour. R. Boyd Literature in periodontics and orthodontics is reviewed and discussed. Case presentations involving treatment between the two specialties are discussed and evaluated by students and faculty. Emphasis is placed on the advances in preventive procedures and their impact on orthodontic practice. GR DIVER.

174.2. Orthodontic Techniques. (1) SSI, SS2. Preoperative enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour. R. Boyd Literature in periodontics and orthodontics is reviewed and discussed. Case presentations involving treatment between the two specialties are discussed and evaluated by students and faculty. Emphasis is placed on the advances in preventive procedures and their impact on orthodontic practice. GR DIVER.

174.2. Orthodontic Techniques. (1) SSI, SS2. Preoperative enrollment in postdoctoral orthodontic or pediatric dentistry program or consent of instructor. Lecture 1 hour. R. Boyd Literature in periodontics and orthodontics is reviewed and discussed. Case presentations involving treatment between the two specialties are discussed and evaluated by students and faculty. Emphasis is placed on the advances in preventive procedures and their impact on orthodontic practice. GR DIVER.
Pathology


Performance of one to two autopsies. Emphasis on a review of the gross anatomy and histologic observations and descriptions of pathologic material. Objective of the course is to provide an understanding of clinical pathologic correlations.

150.02. Off-Campus Pathology Clerkship. (1) per week, Su, W, E, F, W, Sp. Prerequisite: Pathology 101 and 102. Clinical clerkships in off-campus hospitals approved by the chairman of the department and the dean. PATHOLOGY 102 and consent of instructor.

Margaretten, Bowes, Bottles

Students will be assigned duties to perform autopsies under supervision, and participate in departmental conferences.


Staff

Students work closely with the faculty and house staff in the performance of autopsies and in the diagnostic workup of surgical specimens. They actively participate in departmental conferences and seminars. Opportunities are provided for development in specific areas of investigation. PATHOLOGY 102.

150.05. Research. (1) per week, Su, W, Sp. Prerequisite: Consent of instructor and chairperson of the department.

Staff

A limited number of research projects under the direction of a member of the faculty. PATHOLOGY 102.

150.06. Surgical Pathology—MAC. (15) per week, Su, F, W, Sp. Prerequisite: Permission 101 and consent of instructor.

H. R. Price, Reznick

Clerks are expected to have basic techniques of tissue analysis, from light microscopy to microscopic levels, and their application in diagnosis and surgical care. Experience includes postmortem examination, review of surgical biopsies and frozen sections, electron microscopy, and selected special techniques.


Lectures on basic fundamentals of cytology, normal cells, malignant cells, abnormal non-malignant cells, collection and preparation methods. Microscopic examination of specimens and correlation of cellular and tissue pathology with cytopathic and cellular findings on examination of the patient. PATHOLOGY 101.


Blava Staff

Study of clinical and pathological aspects of acute and chronic, renal diseases. New material is presented each quarter during an academic year. Lecture course may be repeated for credit.


Staff

Presentation of selected current cases seen in the hospital pathology service, discussion of pathologic findings, and correlation with clinical and radiographic findings and treatment. PATHOLOGY 101.

170.05. Neuropathology. (2) W, Prereq: Pathology 103, Third- or fourth-year staff. Seminar 2 hours.

R. Davis, DeArmond

Emphasis is placed on the clinicopathologic correlation of neurological diseases by means of study of gross and microscopic material presented in conferences. PATHOLOGY 101.

170.08. Studies in Pathology at other institutions with the approval of the chairperson of the department. PATHOLOGY 101.

180.01. General Pathology. (3) Prereq: Anatomy 102. Lecture 3 hours.

Blava Staff

This course is identical in substance and content of Pathology 126. Elective in the dental hygiene curriculum. PATHOLOGY.

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

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

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

Lecture (1 hour). Blava

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

215.01. Laboratory Rotations. (3) F, W, Sp. Prerequisite: Consent of instructor. Lab 9 hours.

R. Stern

A laboratory rotation course, to familiarize students with various approaches to experimental research and research in the basic medical sciences. Students may include patients with human disease processes. Intended primarily for new graduate students. PATHOLOGY.

215.05. Laboratory Rotations. (3) F, W, Sp. Prerequisite: Consent of instructor and chairperson of the department. Staff

Laboratory rotations to familiarize students with various approaches to experimental research and research in the basic medical sciences. Students may include patients with human disease processes. Intended primarily for new graduate students. PATHOLOGY.

220.08. Experimental Pathology Seminar. (2) F, W, Sp. Prerequisite: Permission of the graduate advisor of the department. Lecture 1 hour Seminar 1 hour.

Blava Staff

Presentation of research by students and seminar in pathology and disease mechanisms. Basic and clinical faculty discuss current research in disease processes. Reading of current literature and discussion of experimental designs stimulate student-led discussion each session.


Students and faculty review literature and discuss current concepts and experiments in connective tissue research. Includes role of structural proteins, such as collagen and elastin. Weekly laboratory work in development of biological and morphologic foundations.

225.02. Laboratory (3-4) F, W, Sp. Staff PATHOLOGY.


The course covers experimental models for various human disease processes. Different organ systems will be surveyed each year. Lectures from the basic and clinical science will discuss current research. The third year will emphasize techniques of disease solving. The final examination will be a mock oral examination.

298. Thesis. (0) F, W, Sp. Prerequisite: Permission of committee of instructor. Lab 9 hours.

R. Stern

A laboratory rotation course, to familiarize students with various approaches to experimental research and research in the basic medical sciences. Students may include patients with human disease processes. Intended primarily for new graduate students. PATHOLOGY.

299. Dissertation. (0) F, W, Sp. Prerequisite: Advanced approval of committee and permission of the graduate advisor.

Staff

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


Warnock, Staff

Practice in teaching pathology under faculty supervision. Students supervise laboratory work, conduct conferences, and assist in preparing and grading examinations. Responsibilities are assigned according to the individual's stage of development. PATHOLOGY.

400. Pathology & Lab Med Seminar. (1) W, Sp. Interns and residents. Prerequisite: Medicine 110 and Surgery 110 or consent of instructor Seminar 1 hour.

Staff

Recent developments in diagnosis and research in pathology and laboratory medicine will be presented by faculty and guest speakers. PATHOLOGY.

401. Special Topics Seminar. (Units to be arranged with instructor.) F, W, Sp. Interns and residents. Staff

Seminar focusing upon the pathology of specific organ systems and courses by specialists. Emphasis is on correlation between clinical and laboratory phenomenon. Prerequisites and reading assignments shall be determined by the instructor. PATHOLOGY.


Students, under supervision, pursue original studies. A research thesis will be submitted. Investigations review the literature, make observations, and correlate physiologic with pathologic concepts. PATHOLOGY.


Students will discuss the clinical and laboratory data and materials, summaries of histories, and citations of pertinent literature. Students will practice in clinopathologic conferences where emphasis is placed on correlation of clinical manifestations of disease with clinical laboratory and autopsy findings.

405. Dermatopathology. (2) F, W, Sp. Prereq: Prerequisite: Pathology 101 or equivalent by consent of instructor. Lab 2 hours Seminar 1 hour.

Suegelbl

Survey of inflammatory and neoplastic skin disorders and their diagnosis. Discussion of clinical and histologic features of the diseases, and emphasis on correlation of clinico-pathologic correlations. PATHOLOGY.


Favet

Theory and methodology of pathologic mapping, interpretation and correlation of data, and study of literature. PATHOLOGY.

455. Electron Microscope Seminar. (1) F, W, Sp. Prerequisite: Pathology 101 and Anatomy 110 and consent of instructor Lecture 1 hour. Lecture fees for residents. Staff

Seminar focusing on the application of electron microscopy to specific organ systems. Techniques, indications for use of electron microscopy in pathologic diagnosis, and the specific ultrastructural features of normal and diseased tissue. Emphasis is placed on relevant clinical consequences. Preparation of an oral presentation is required. PATHOLOGY.

122 Pathology
Course gives a comprehensive update on the latest clinical dental procedures and tech-
nology. It is a combined lecture and seminar series. A term paper is assigned on an topical issue in dental hygiene.
7.15B-C,D,E, - Categorical Clinical Dental Hygiene for the Special Care Patient. 1.5 hours.
5 hours: 1 hour: 1 hour.
7.17D,E, - Patient Education and Counseling. 1.0 hour.
7.17A-C,D,E, - Advanced Pediatric Dentistry. 1.5 hours.
7.17A-B,C,D,E, - Adult Restorative Dentistry. 1.0 hour.
7.17A-C,D,E, - Oral and Maxillofacial Surgery. 1.5 hours.
7.17A-C,D,E, - Pedodontics. 1.5 hours.
7.17A-C,D,E, - Prosthodontics. 1.5 hours.
7.17A-C,D,E, - Periodontics. 1.5 hours.
7.17A-C,D,E, - Comprehensive Dentistry. 1.5 hours.
7.17A-C,D,E, - General Dentistry. 1.5 hours.
7.17A-C,D,E, - Dental Assisting. 1.5 hours.
7.17A-C,D,E, - Dental Hygiene. 1.5 hours.
7.17A-C,D,E, - Dental Radiology. 1.5 hours.
7.17A-C,D,E, - Dental Materials. 1.5 hours.
7.17A-C,D,E, - Dental Instruments. 1.5 hours.
7.17A-C,D,E, - Dental Anatomy. 1.5 hours.
7.17A-C,D,E, - Dental Pathology. 1.5 hours.
7.17A-C,D,E, - Dental Pharmacology. 1.5 hours.
7.17A-C,D,E, - Dental Ethics. 1.5 hours.
7.17A-C,D,E, - Dental Microbiology. 1.5 hours.
7.17A-C,D,E, - Dental Economics. 1.5 hours.
7.17A-C,D,E, - Dental Law. 1.5 hours.
7.17A-C,D,E, - Dental Hygiene. 1.5 hours.
7.17A-C,D,E, - Dental Radiology. 1.5 hours.
7.17A-C,D,E, - Dental Materials. 1.5 hours.
7.17A-C,D,E, - Dental Instruments. 1.5 hours.
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7.17A-C,D,E, - Dental Pathology. 1.5 hours.
7.17A-C,D,E, - Dental Pharmacology. 1.5 hours.
7.17A-C,D,E, - Dental Ethics. 1.5 hours.
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7.17A-C,D,E, - Dental Economics. 1.5 hours.
7.17A-C,D,E, - Dental Law. 1.5 hours.
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7.17A-C,D,E, - Dental Pathology. 1.5 hours.
7.17A-C,D,E, - Dental Pharmacology. 1.5 hours.
7.17A-C,D,E, - Dental Ethics. 1.5 hours.
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7.17A-C,D,E, - Dental Anatomy. 1.5 hours.
7.17A-C,D,E, - Dental Pathology. 1.5 hours.
7.17A-C,D,E, - Dental Pharmacology. 1.5 hours.
opportunities to develop and perfect skills in patient care, such as writing case write-ups, presentations, and procedures. Supervised problem-oriented learning/ teaching environment focus basic diagnostic and management skills. Conference, case write-ups and presentations, open call with resident, and assigned reading. PEDIATRICS 140.32. Peds Infectious Diseases—VAC 140.30. (1/15) Su, F. W. Sp. Prerequisite: Medicine 110 and Pediatrics 110 McCarty Experience with common and unusual infections such as meningitis, osteomyelitis, pneumonias, peritoniitis infections, and infections in immunocompromised hosts. Emphasis on discussion of consult patients, close interactions with the microbiology laboratory, and infectious diseases. Students will also review fundamentals of antimicrobial therapy. PEDIATRICS 150.02. Human Genetico's—UC (1/15) Su, F. W. Sp. Prerequisite: Medicine 110 and Pediatrics 110. Grumbach, F. Conta Participation in human genetic studies in children. Emphasis is on laboratory work with exposure to clinical problems and patient conferences. PEDIATRICS 140.04. Research in Pediatrics—UC (1/15) Su, F. W. Sp. Prerequisite: Medicine 110 and Pediatrics 110. Heyman, Thaler Students participate with fellows and staff in the diagnosis and treatment of var- esthesia and hepatic diseases, and nutritional deficiencies in infants and children. They present cases on wards and in the outpatient clinic, assist with procedures, and attend spe- cial interest conferences. PEDIATRICS 140.31. Inpatient Pediatric Clash—VAC 140.30. (1/15) Su, F. W. Sp. Prerequisite: Medicine 110 and Pediatrics 110 Staff

Residents, under supervision, are responsible for the care of all pediatric pa- tient clinic including history-taking, physical examination, laboratory tests, diagnosis, and treatment. In addition, the chief resident has certain administrative, teaching, and clinical responsibilities. PEDIATRICS 451. Clinical Pediatrics—SPGE (1/5) Su, F. W. Sp. Residents. M. Grossman Residents, under supervision, are respon- sible for the care of all patient clinic in- cluding history-taking, physical examination, laboratory tests, diagnosis, and treatment. Emphasis is on diagnosis and management of infection, trauma, and pediatric emergen- cies PEDIATRICS 462. Clinical Pediatric Case Conference—GEP Residents in the primary Care Track of the Pediatrics Residency Program are required to attend the weekly case conference. Case conferences include house staff presentations and case presentation of patient case histories with reference to the literature, laboratory, and special studies. Faculty members and consultants from other departments as well as other universities discuss recent develop- ments in their respective fields. PEDIATRICS 461. Pediatric-Neurology Conf. (1/15) Su, F. W. Sp. Interns and residents. CC Gooding Conferences include review and discussion of recent case studies of pediatric cases in the wards and outpatient service. Conferences include those common to the regular Pediatrics Residency Program as well as related clinical services such as Dermatology, Otolaryngology, and Pediatrics. 463. Clinical Pediatric—(1/4) per week Su, F. W. Sp. Res. Grumbach, Dower Residents in the Primary Care Track of Pediatri- cs are responsible for patient care in a community setting. Responsibilities include those common to the regular Pediatrics Residency Program as well as related clinical services such as Dermatology, Otolaryngology, and Pediatrics.
Introduction to the oral hygiene problems of the periodontal patient and the means and methods available to the dentist and assistant to motivate the patient to self-care. STOMATOLOGY.

160. Periodontal Therapy. (2) F Prerrequisite: Periodontal 150. Lecture 2 hours.

Classification of periodontal diseases and methods of their prevention. Preventive procedures are related to therapeutic procedures. A faculty panel discusses the role of the hygienist in the dental practice. STOMATOLOGY.

161. Advanced Periodontal Therapy. (1) W Prerequisite: Periodontal 160 Lecture 1 hour.

Taggart

The demonstration and rational of surgical treatment of periodontal lesions. The role of the hygienist in dental periodontal care is especially related to prevention, recognition, and aid in treatment of periodontal diseases STOMATOLOGY.

170A-B. Histopathology of Periodontium. (2-2-2) F & W Pr. Lecture 1 hour. Lab 3 hours.

Diemens (W. W.), Ryder (Sp).

Dynamics of infection and its role in the periodontal tissues. STOMATOLOGY.

171. Clinical Periodontics. (0.08-1.0) W & Sp. Prerequisite: Enroll in postgraduate program. Clinic 12 hours.

Shibata

Clinical procedures in periodontal therapy. STOMATOLOGY.

172. Examination & Treatment Planning. (1) F & W Prerequisite: Enrollment in postgraduate specialty program or consent of instructor. Parr

Lectures on examination and treatment planning. STOMATOLOGY.

172.01. Hospital Anesthesiology. (5) SP. Consent of instructor. Seminar 10 hours. Clinical 24 hours.

C. Chang

Practical course in operating room anesthetic induction and maintenance. Emphasis on physical and preanaesthetic evaluation of the patient, monitoring of vital signs, administration of anesthetics, the use of general anesthesia, and handling of resultant medical emergencies. Clinical instruction is supplemented by seminars. STOMATOLOGY.


Shibata

Clinical periodontics integrated into the regular medical and rehabilitative activities of the HC. Course provides patients with quality dental care, appreciation for preventive dentistry, and concept of total health care. Students are exposed to various medical conditions. STOMATOLOGY.

173.01. Periodontal Therapy. (2) SS. Prerequisite: Periodontal 171A-B. Clinic 60 hours.

Shibata

Clinical procedures in periodontal therapy. This course is an enrichment on earlier clinical experience. STOMATOLOGY.

173.02. Periodontal Therapy. (4) W & Sp. Prerequisite: DDS degree and consent of instructor. Lecture 2 hours.

Shibata

Advanced clinical procedures in periodontal therapy. STOMATOLOGY.

173.03. Periodontal Therapy. (2) SS. Prerequisite: Periodontal 175-C. Clinic and Seminar 60 hours. Shibata, E. Green and Nathan

Advanced surgical techniques in management of periodontal lesions. STOMATOLOGY.

174. Orthodontic & Periodontal Treatment. (3) W, 1 credit hour.

Parr

Seminars to discuss and evaluate problems common to the specialties of orthodontics and periodontics. STOMATOLOGY.

175. Treatment Planning & Surgery. (0-3, 0-3, 0-3, 1, 1) W, Sp. Prerequisite: Oral Surgery II, 100 hours.

Shibata

Students prepare and discuss management of cases that are either planned for treatment or currently under treatment. They are expected to defend their treatment plan and therapeutic procedure based on relevant literature and clinical experience. STOMATOLOGY.


Shibata

Students present and discuss management of their cases that are either planned for treatment or currently under treatment. They will be responsible for defending their treatment plan and therapeutic procedures based on relevant literature and clinical experience. STOMATOLOGY.

175.02. Initial Observation. (1-5) W & Sp. Prerequisite: Enrollee in postgraduate specialty program, consent of instructor. Lab 5-15 hours.

Armitage

Research STOMATOLOGY.

177. Periodontal Surgery Seminar. (2, 2) F & W. Prerequisite: DDS degree, consent of instructor. Lecture 2 hours.

Shibata

Study in depth with literature review and seminar discussions on surgical techniques used to treat lesions involving the hard and soft tissue of the periodontium. STOMATOLOGY.

201A-B. Clinical Research. (5, 0, 0-1) F & W, Sp. Lecture 0.2-0.5 hours.

Shibata (3), E. Green (9), Bhansal (8)

Elements of experimental design, statistical inference, and methods of laboratory and clinical research. STOMATOLOGY.

202A-B. Molec & Biochem Basis of Dis. (1-2, 1-2) F & W. Prerequisite: Biochemistry 100A-B or equivalent introduction to biochemistry. Lecture 2 hours. Seminar 1 hour.

Shibata

Course introduces students to the principles of biochemistry and molecular biology as they relate to current concepts in the molecular basis of major diseases entities including cancer, metabolic disorders, fibrosis and degenerative disorders of connective tissue, inflammation and wound healing. STOMATOLOGY.

209. Literature Review. (2) F & W. Sem. 2 hours.

Staff

Seminar designed to correlate basic science to clinical application. Students will evaluate concepts in the direction of research, clinical application, and teaching. Selected papers from the current literature are reviewed and evaluated. Other instructors are invited to participate. STOMATOLOGY.

Pharmaceutical Chemistry

120. Principles of Pharmaceutical Chem. (3, 3) F. Prerequisite: Chemistry 115. Lecture 3 hours.

Meehan

A study of physicochemical and biological factors which contribute to drug action; in vivo and in vitro transformations of drugs and related organic compounds. PHARM CHEM.

121. Drug Chem & Biologic Correlation. (2, 2) W. Prerequisite: Pharmaceutical Chemistry 120 and permission of instructor. Lecture 12 hours.

S. Hawkes

A systematic survey of the chemical features of synthetic drugs, including correlations between chemical structure and biological activity. Emphasis on steroid hormones, and drugs for metabolic disorders. PHARM CHEM.

122. Autonomic & Cardiovascular Drugs. (3, 3) Sp. Prerequisite: Pharmaceutical Chemistry 120. Lecture 3 hours.

C. C. Wang

A systematic survey of the chemical features of synthetic drugs, including correlation between chemical structure and biological activity. Emphasis on drugs affecting the autonomic nervous and cardiovascular systems as well as renal function. PHARM CHEM.

123. Basic Concepts in Pharmacol. (3, 3) F. Prerequisite: Pharmaceutical Chemistry 120. Lecture 3 hours.

S. S. Greer

A systematic survey of the chemical features of synthetic drugs, including correlations between chemical structure and biological ac-
or equivalent, Physiology 120 and 125 or equivalent, Lecture 3 hours, Lab 3 hours.

121. Pharmacology. (3) Prerequisite: Concurrent enrollment in Pharmacological Chemistry 125. Lecture 3 hours, Lab 3 hours. 3 credits.

122. Pharmacology & Toxicology. (4) Prerequisite: Pharmacology 125. Lecture 4 hours. 4 credits.

123. Pharmacology & Toxicology Research. (3-9) Prerequisite: Consent of instructor. Lab 3 hours, 3 credits.

125. Pharmacology & Toxicology. (4) Prerequisite: Biochemistry 120-B and Physiology 120 and 125. Lecture 5 hours. 5 credits.

126. Pharmacology & Toxicology. (4) Prerequisite: Pharmacology 125. Lecture 4 hours. 4 credits.

127. Pharmacology & Toxicology. (4) Prerequisite: Biochemistry 120-B and Physiology 120 and 125. Lecture 4 hours. 4 credits.

128. Pharmacology & Toxicology. (4) Prerequisite: Biochemistry 120-B and Physiology 120 and 125. Lecture 4 hours. 4 credits.

128A. Pharmacology & Toxicology. (3) Prerequisite: Consent of instructor. Lecture 2 hours, Lab 3 hours. 3 credits.

129. Pharmacokinetics. (3) Prerequisite: Physiology 120-30. Lecture 3 hours. 3 credits.

130. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

131. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

132. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

133. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

134. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

135. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

136. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

137. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

138. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

139. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

140. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

141. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

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146. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

147. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

148. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

149. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

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168. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

169. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

170. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

171. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

172. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

173. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

174. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

175. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

176. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

177. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.

178. Pharmacokinetics. (3) Prerequisite: Consent of instructor. Lecture 3 hours. 3 credits.
with the properties and ingredients of such products.

Pharmacy Administration

168. Clinical Pharmacokinetics (C) (2) F, W, Sp. Prerequisites: Fourth-year standing or consent of instructor. Reports on 4 occasions 6 hours. Enrollment limited.

Upton

Discussion and review of the literature in the clinical application of pharmacokinetic principles in drug therapy. PHARMACY

168.02. Clinical Pharmacokinetics (C) (2) F, W, Sp. Prerequisite: Fourth-year standing or consent of instructor. Reports on 4 occasions 6 hours. Enrollment limited.

Stallmiers

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

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

Groups of studies selected in topics in phar- macy PHARMACY


Williams, Bomstein

Discussion of methods for generating data about drug risk and efficacy in clinical in- vestigations, with emphasis on the randomized clinical trial. Statistical methods used in mod- ern clinical trials will be discussed.

170.06. Molec & Cell Biology in Drug Devel. (2) Sp. Prerequisite: Consent of in- structor. Lecture 2 hours.

Introduction to the role of cellular and molecular biology in developing new drugs, hormones or therapeutic agents. PHARMACY


Leon

Aspects of communication which focus on the student's development of communication skills. Setting of principles of commu- nication and practice of specific techniques in simulated practice situations. PHARMACY

154. Community Pharmacy Manage- ment. (4) Sp. Prerequisite: Basic economics


Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the depart- ment. PHARMACY


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

Pharmacy Administration

111. Pharmacy Laws. (2) W. Lecture 2 hours. Consent of instructor. Staff

Introduction to court systems and adminis- tration board and their relationship to the health care profession. In-depth study of princi- ples of criminal law, negligence, and business law with particular emphasis on the legal relationship and responsibility of the prac- titioner to the consumer. PHARMACY

112. Pharmacy Laws. (2) W. Lecture 2 hours.

J. R. Nielsen

A detailed examination of federal and state drug, cosmetic, and narcotic laws, their pro- mulgation, enforcement, and effect upon the practice of pharmacy. Course involves the administrative work. PHARMACY

150. Marketing. (4) W. Lecture 4 hours.

Staff

An analysis of the marketing functions that facilitate the flow of pharmaceutical products from production to consumer, and the decision-making processes of marketing in- stitutions. Emphasis is given to the environ- mental factors affecting marketing decisions.

154. Community Pharmacy Manage- ment. (4) Sp. Prerequisite: Basic economics or consent of instructor. Lecture 4 hours.

Staff

Principles of management, specialty di- rections in community pharmacy focusing on current problems peculiar to community pharmacy operation. Emphasis is given to elements in locating, organizing, operating, and adapting a pharmacy. PHARMACY

155. Accounting. (3) F, Lecture 1 hour. Dis- cussion of general accounting principles. Staff

Consideration of the fundamental concepts of financial statements, with special emphasis on the accounting requirements of the community pharmacy. Problem cases and demonstrations are presented. PHARMACY


J. R. Nielsen

A survey of laws relating to landlord-tenant dissolution, property division, support payments, and real estate tax measures. The course includes some particular emphasis on how pharmacists may expect to be affected by such real estate tax laws, and some practical preventive legal techniques. PHARMACY


Groups of studies selected in topics in phar- macy administration. PHARMACY

1804-B. Legal Problems in Health Care. (2-2-2) F, W, Sp. Prerequisite: Third-year standing and consent of instructor.

J. R. Nielsen

Staff

Selected problems with directed readings and library research on current legal (safety and case law) issues affecting the delivery of pharmacy services. Discussion and paper.


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

Physical Therapy

160. Gross Anatomy. (6) Su. Prerequisite: Admission to the University and the Curriculum in Physical Therapy. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 3 hours, lab 9 hours.

Staff

A fundamental building block of physical therapy, this course presents the gross struc- tural and functional anatomy with a regional and systemic correlation by means of dissection, demonstration, surface and cross- sectional anatomy. PHYS THIR

161. Pathology. (5) F, Prerequisite: Com- pletion of course work in summer term. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 3 hours, lab 4 hours.

Biava

Mechanisms and language of diseases are discussed in the context of the physiology of the framework of fundamental disease processes such as cell injury, immune pathology, infection, response to infectious agents, repair and re- generation, hormonal and endocrine mechanisms, genetic disorders, disturbances of cell growth and neoplasia. PHYS THIR

162. Physiology. (3) F, Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 3 hours.

DeWeese

The physiological function of the heart, cardiovascular, respiratory, renal, and digestive system is presented in a lecture format. An overview of selected regulatory and interactive mechanisms is presented to facilitate the comprehension of homeostasis. PHYS THIR

163. Neuroanatomy. (2) Su. 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 program director. Lecture 1 hour, lab 3 hours.

S. Shapiro

The structural organization and function of the central nervous system are presented including the basic organization and functional and technical components of the nervous system. PHYS THIR

104A. Physical Therapy Procedures. (3) F, W, Sp. Prerequisites: permission for admission to the University and consent of the Curriculum, or consent of program director. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 2 hours, lab 4 hours.

S. Shapiro

This course begins a four-quarter series presenting theory, skills and application of physical therapy procedures in patient care. Course addresses surface anatomy, kinesiol- ogy, normal and pathologic physiology, and the normal and pathologic anatomy and physiology of normal integrity of neuromusculoskeletal tissues. PHYS THIR

104B. Physical Therapy Procedures. (5) F, Prerequisite: Completion of course work in summer term. Open only to students enrolled in the Curriculum, or consent of pro- gram director. Lecture 2 hours, lab 8 hours.

S. Shapiro

Continuation of Physical Therapy 104A. PHYS THIR

Theo: physics and indicators of contrain- dications of physical therapy procedures. PHYS THIR

104C. Physical Therapy Procedures. (5) W, Prerequisite: Completion of course work in summer term and fall quarter. Open only to students enrolled in the Curriculum, or consent of program director. Lecture 2 hours, lab 8 hours.

S. Shapiro

Continuation of Physical Therapy 104B. Advanced neuromuscular, physiological,
Preventive Dentistry and Community Health

199. Laboratory Project. (1-2) F, W, 5, Prerequisite: Consent of instructor. Lab. variable.
A laboratory research project under direction of a member of the faculty with the approval of the chairperson of the department. DENT PUBL 159.

Psychiatry

1. First-Year Coordinated Instruction—This course provides a first opportunity to interview medical patients in small group settings, guided by experienced clinicians. Useful medical information is gathered in a comfortable, professional manner. This course format includes lectures, small group teaching, and student guidance in the use of the clinical videotapes and film. PHY 101.

A seminar designed to teach postdoctoral fellows and graduate students how to best put into words, tables and figures work done in the laboratory, and how to do so clearly, simply, convincingly, and briefly, so that others may understand PHYSIOLOGY.

2. Teaching Techniques. (1) F, W, 5, Prerequisite: Consent of instructor. Lab. 1 hour. Enrollment limited to 15.
A course in teaching techniques. Students present class lectures, and videotapes, these presentations are analyzed by self- and group criticism. PHYSIOLOGY.

298. Thesis. (0) 0, 5, 5, Prerequisite: Advanced standing medical candidates and permission of the graduate advisor. Ganong and Staff. For graduate students engaged in writing the thesis for the master's degree. PHYSIOLOGY.

299. Dissertation. (0) F, W, 5, Prerequisite: Consent of candidate and permission of the graduate advisor. Ganong and Staff. For graduate students engaged in writing the dissertation for the Ph.D. degree. PHYSIOLOGY.

300. Teaching Practicum. (1) F, W, 5, Prerequisite: Recent training in physiology and consent of instructor. Lectures and laboratory variable.
Ganong and Staff.
Practice in teaching physiology under faculty supervision. Students supervise laboratory work, conduct conferences, deliver lectures, and assist in planning and grading of examinations. Responsibilities are assigned according to the individual's stage of development. PHYSIOLOGY.

301. Scientific Writing. (0) 0, 5, W, Prerequisite: Consent of instructor. Seminar 4 hours.
A seminar designed to teach postdoctoral fellows and graduate students how to best put into words, tables and figures work done in the laboratory, and how to do so clearly, simply, convincingly, and briefly, so that others may understand PHYSIOLOGY.

302. Teaching Techniques. (1) F, W, 5, Prerequisite: Consent of instructor. Lab. 1 hour. Enrollment limited to 15.
A course in teaching techniques. Students present class lectures, and videotapes, these presentations are analyzed by self- and group criticism. PHYSIOLOGY.

310. Psychiatric Aspects of Med. Pract. (2) C, F, W, 5, Prerequisite: Satisfactory completion of the first and second year of School of Medicine as specified in the pre-requisite for the 110-credit hours listed below. Clinical seminar 2 hours.
Kolam a weekly two-hour clinical seminar, offered at all training sites. Focus of the seminar is to develop the diagnostic confidence. Family and Community Medicine 110, Medicine 110, Neu- rology 110, Obstetric, Gynecology and Reproductive Sciences 110, Pediatrics 110, and Surgery 110. PHYSIOLOGY.

140. Advanced Psychiatry Clerkship. (3-4) W, 5, Prerequisite: Phys 10 and consent of Department of Psychiatry. PHYSIOLOGY.
Boatman and Staff.
Participation, with supervision of attending and resident staff of the Department of Psychiatry, in psychiatric assessment, treatment and consultation. Participation may be required. PHYSIOLOGY.

140. Clinical Campus Clerkship. (1-2) W, 5, Prerequisite: Consent of Department of Psychiatry. PHYSIOLOGY.
Clinical clerkships in off-campus hospitals, approved by the Chairman of the Department, and the chairman of the psychiatry program. PHYSIOLOGY.

Gendel Effect of sex roles, self-esteem, attitudes, and values of clinicians on treatment of sexual problems. Case studies, role playing, group discussion, film, and television are used to develop skills in introductory sex counseling. Special reading assigned; project is optional. PHYSIOLOGY.

160. Speech & Lang Psychopathology. (2) F, W, 5, Prerequisite: Consent of Department of Psychiatry. Seminar 1 hour. Lab. 5 hours.
A clinical course focusing on specific aspects of language pathology. Students' eligibility depends on previous experience in both clinical and patient interest in specific problems of communication. Participation with characteristic syndromes will be reviewed and suitable treatment procedures performed under supervision. PHYSIOLOGY.

167. Outpatient Psychopharmacology. (2-7) F, W, 5, Prerequisite: Psychiatry 110 and consent of Department of Psychiatry. Seminar 2 hours. Lab. 0-15 hours.
Amail Practical experience in psychopharmacology includes understanding of patient's understanding of psychopharmacological therapy. Students are assigned patients under supervision of a member of the faculty. Assigning seminars, and lecture writing. PHYSIOLOGY.
411. Forensic Psychiatry, (15) W. Required for research on the psychology of criminal and suicidal behavior. 1 ½ hours.
412. Family & Group Therapy, (1) W. Required for students interested in clinical work with family and group therapy. 1 ½ hours.
413. Child Psychology, (1) F. Required for second-year residents in psychiatry. 1 hour.
414. Psychotherapy, (1) F. W. E. Required for second-year residents in psychiatry. 1 hour.
415. Intro to Clinical Research, (1) W. Required for residents in psychiatry. 1 hour.
418. Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
419. Biological Psychiatry, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
420. Clinical Applications of Psychotherapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
421. Pharmacology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
422. Social Psychology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
423. Research Methods, (1) F. U. Seminar on the research methods used in psychiatric research. 1 hour.
424. Group Therapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
427. Psychopharmacology/Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
428. Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
429. Clinical Applications of Psychotherapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
430. Pharmacology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
431. Social Psychology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
432. Research Methods, (1) F. U. Seminar on the research methods used in psychiatric research. 1 hour.
433. Group Therapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
435. Psychopharmacology/Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
436. Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
437. Clinical Applications of Psychotherapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
438. Pharmacology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
439. Social Psychology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
440. Research Methods, (1) F. U. Seminar on the research methods used in psychiatric research. 1 hour.
441. Group Therapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
443. Psychopharmacology/Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
444. Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
445. Clinical Applications of Psychotherapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
446. Pharmacology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
447. Social Psychology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
448. Research Methods, (1) F. U. Seminar on the research methods used in psychiatric research. 1 hour.
449. Group Therapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
452. Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
453. Clinical Applications of Psychotherapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
454. Pharmacology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
455. Social Psychology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
456. Research Methods, (1) F. U. Seminar on the research methods used in psychiatric research. 1 hour.
458. Psychopharmacology/Psychopharmacology, (1) F. U. Seminar on the biological aspects of mental illness. 1 hour.
460. Clinical Applications of Psychotherapy, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
461. Pharmacology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
462. Social Psychology, (1) F. W. Required for third-year residents in psychiatry. 1 hour.
Residents, under supervision, carry out radiological examination of X rays of patients referred from wards and outpatient clinic. The chief resident has certain administrative duties relative to the resident training program. RADIOLOGY 453. Clinical Diagnostic Radiography (1.5 per week) Su, W, Sp. Prerequisite: Radiography 56.

Residents, under supervision, are responsible for the diagnostic activities of the departments under the direction of the resident, the chief resident, and the director. They are responsible for all consultations and reports, history-taking, and physical examinations. In addition, the chief resident has certain administrative duties relative to the resident training program. RADIOLOGY 453. Clinical Diagnostic Radiography (1.5 per week) Su, W, Sp. Prerequisite: Radiography 450.

Removable Prosthetics

400. Approaches to Maxillae Prosthod. (F) W Sp. Lecture 1 hour. Zlotower Course is designed to acquaint residents with multidisciplinary aspects of maxillofacial prosthetics. Lectures will be given on maxillofacial prosthetic techniques including head and neck surgery, plastic surgery, oral surgery, therapeutic radiology, psychology and related oral biology. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115, Release 15B. Introduction to restorative dentistry. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115B. Concurrent enrollment in Restorative Dentistry 125B. Lecture 1 hour. Zlotower Continuation of Restorative Dentistry 115B. Topics include dental anatomy and related physiology, and function. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115B. Concurrent enrollment in Restorative Dentistry 125B. Lecture 1 hour. Zlotower Continuation of Restorative Dentistry 115B. Topics include dental anatomy and related physiology, and function. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115B. Concurrent enrollment in Restorative Dentistry 125B. Lecture 1 hour. Zlotower Continuation of Restorative Dentistry 115B. Topics include dental anatomy and related physiology, and function. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115B. Concurrent enrollment in Restorative Dentistry 125B. Lecture 1 hour. Zlotower Continuation of Restorative Dentistry 115B. Topics include dental anatomy and related physiology, and function. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115B. Concurrent enrollment in Restorative Dentistry 125B. Lecture 1 hour. Zlotower Continuation of Restorative Dentistry 115B. Topics include dental anatomy and related physiology, and function. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115B. Concurrent enrollment in Restorative Dentistry 125B. Lecture 1 hour. Zlotower Continuation of Restorative Dentistry 115B. Topics include dental anatomy and related physiology, and function. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115B. Concurrent enrollment in Restorative Dentistry 125B. Lecture 1 hour. Zlotower Continuation of Restorative Dentistry 115B. Topics include dental anatomy and related physiology, and function. RESTOR DENT

110B. Intro to Restorative Dentistry. (F) W Sp. Prerequisite: Restorative Dentistry 115B. Concurrent enrollment in Restorative Dentistry 125B. Lecture 1 hour. Zlotower Continuation of Restorative Dentistry 115B. Topics include dental anatomy and related physiology, and function. RESTOR DENT
response to restorative treatment, and treat-
ments for removal of removable partial dentures. RESTOR DENT
130.04. Clinic Application of Techniques. (4) Sp. Prerequisite: completion of Phase II of Restorative Dentistry. 130.05. Concurrent enrollment in Restorative Dentistry 139. Lecture 1 hour, 1 laboratory hour. Jendresen, Rosenbog, and Staff

Concluding lectures on clinical application of restorative and orthopedic techniques. Time allowing, why different clinical procedures occur with similar occlusion. Restoration of anterior and posterior dental materials; pulp protection; pulpal re-

sponse to treatment; and prosthetic treatment of patients with congenital or acquired craniofacial anomalies. RESTOR DENT
139. Clinical Restorative Dentistry, I. (0-10) Sp. Prerequisite: must pass qualifying examinations in the fourth-year level, fourth-year student in good standing. Concurrent enrollment in 130.01, 130.02, 130.03 and 130.04. Clinic variable. Jendresen, Brady, Firtell, N. Nguyen, Schubach

Clinical instruction and practice in the disciplines of endodontics, fixed prosthodontics, operative and primary care, and removable prosthodontics. Course is graded after student passes qualifying examinations at the end of Spring quarter, third year. RESTOR DENT
149. Clinical Restorative Dentistry, II. (0-22) Sp. Prerequisite: completion of fourth-year level. RESTOR DENT
174. Nutrition. (1) IN. Prerequisite: D.D.S., D.M.D. or equivalent degree. Enrollment in a four-year level program. Lecture, 1 laboratory hour. Wilkins, Persic

Course will emphasize the clinical applications of dietary factors for the geriatric prostodontic patient. A dietary analysis of the patient and a pro-

sthetic rehabilitation plan currently under treatment will be required. RESTOR DENT
179.01A-B-C-D-E-F-G-H. Prosthodontics Literature Review. (0-3) A. E. Su B. F. F. G. W. D. H. Sp. Prerequisite: Enrollment in Postgraduate Prosthodontics Program. Sem-

inar 1-4 hours. Two-year course. T. Curtis

Current and past prosthodontic literature will be studied and discussed. Students will learn to distinguish between appropriate, controversial, and inappropriate information of prosthodontics literature. RESTOR DENT

A treatment plan will be discussed and developed for each patient after all diagnostic procedures have been gathered. Students are responsible for establishing an initial treat-

ment plan prior to the seminar and sub-

mitting it before the group. RESTOR DENT

Staff and program consultants will present lecturers on various aspects of fixed and re-

moveable prosthodontic and related subjects on a graduate level. RESTOR DENT
180.01U. Survey of Dental Materials. (1) Sp. Lecture 1 hour. Jendresen

A survey course in the current research in the dental materials field, including evaluation of recently published and in-progress research. RESTOR DENT
180.03. Oral Rehabilitation. (1) W. Lorenz

A review of the field of fixed prosthodontics and its relationship to other dental disciplines will be explored by means of case presentations. Students will be expected to present for oral and written experience in oral rehabilitation techniques. RESTOR DENT
180.04. Advanced Operative Theory. (1) W Prerequisite: Completion of Restorative Dentistry 180. Lecture 1 hour. Knapp

A wide variety of selected topics related to fixed prosthodontics will be reviewed. Specific research findings leading to modern concepts in en-

dodontic treatment will be emphasized. Stu-

dents are encouraged to participate in re-

search projects and in table clinics at dental laboratories. RESTOR DENT
180.05. Prostodontic Procedures. (1) W. Sp. Lecture 1 hour. Brigitte

An elective course offering instruction in procedures and materials other than those normally used in the clinic. RESTOR DENT
181.01. Cosmetic Dentistry. (1) W. Prerequisite: Consent of instructor. Lecture 1 hour. Lacy

Review of a variety of materials and tech-

niques related to the design of esthetic or esthetic dentistry. New materials and pro-

cedures in both operative dentistry and fixed prosthodontics are emphasized. RESTOR DENT
182.01. Advanced Endodontics Concepts. (1) W. Lecture 1 hour. Rosenbog, Lacy

Diagnosis, case selection, and management of pain and infection in endodontically in-

volved teeth, advanced techniques for treating difficult root canal system anatomy; refine-

ment in obturation of the root canal. RESTOR DENT
182.02. Advanced Endodontics Literature Review. (1) W. Sp. Prerequisite: Completion of Restorative Dentistry 180. Lecture 1 hour. Pollard

A review of the current literature on the subject of endodontics. RESTOR DENT
182.03. Advanced Partial Denture Design. (1) Sp. Prerequisite: Completion of three re-

versible partial dentures. Lecture 1 hour. Seminar 1 hour. Lacy

Seminar to discuss and determine the re-

sults of case studies, and to recommend new treatment or designs for removable par-

tial dentures. Emphasis will be on under-

standing the principles of treatment and the use of materials, and will include examina-

tions of occlusal relationships of the opposing arches, and a rationale for treatment will be presented. RESTOR DENT
182.05. Advanced Complete Prosthodon-

tics. (1) W Prerequisite: Fourth-year standing. Limited to 10 students. Scholarship available. Finzem, Meyer

Seminar to discuss diagnostic procedures, manu-

facture and maintenance review the-
Office of Administration

The Regents

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Leo E. McCarthy
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Willie L. Brown, Jr.
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Bill Honig
President of the Alumni Association of the University of California
John B. Farrell
Vice President of the Alumni Association of the University of California
Gary Cusanaro
President of the University
David Peernoot Gardner
Appointed Regents
Glenn B. Campbell (1996)
William French Smith (1986)
Robert O. Reynolds (1986)
Dean A. Watkins (1996)
Joseph A. Moore (1996)
William A. Wilcox (1988)
Vilma S. Martinez (1996)
John F. Henning (1989)
Yuri Wada (1992)
Frank W. Clark, Jr. (1988)
David Geffen (1996)
Willis W. Harman (1996)
Robert N. Noyce (1992)
Yvonne Brathwaite Burke (1993)
Jeremiah F. Halliday (1993)
Sheldon W. Andelson (1994)

Harold M. Williams (1994)
Frank Hope, Jr. (1988)
Student Regent
Jacie Ebery (1986)
Regents-Designate
James Toole, Jr. (1986)
Claude Hutchinson, Jr. (1986)
Faculty Representatives to the Board of Regents
Marjorie Casario
(September 3, 1984 to August 31, 1986)
E. Wilson Smith
(September 1, 1985 to August 31, 1985)
Principal Officers of The Regents
President of The Regents
Dr. George Deukmejian
Chair of The Regents
Vilma S. Martinez
Vice Chair of The Regents
Frank W. Clark, Jr.
General Counsel
Donald L. Bednar
Treasurer
Herbert M. Gordon
Secretary
Bonnie M. Stemory
President of the University
David Perrenoot Gardner
President of Academic Affairs
William R. Francey
Senior Vice President, Administration
Ronald W. Brady
Vice President, Agriculture and Natural Resources
James B. Kendrick, Jr.
Vice President, Budget and University Relations
William B. Baker
Vice President, Health Affairs
Cornelius L. Hopper

Officers Emeriti
President of the University, Emeritus, and Professor of Economics, Emeritus
Charles J. Hitch
President of the University, Emeritus, and Professor of Business Administration, Emeritus
Clark Kerr
President of the University, Emeritus, and Professor of Physics, Emeritus
David S. Sanes
Chancellor, Emeritus; University Librarian, Emeritus; Professor of Anatomy, Emeritus, and Professor of History of Health Sciences, Emeritus
John B. DeC. M. Saunders, M.D.
Chancellor, Emeritus; and Professor of Oto-
Laryngology
Frances A. Sox, M.D.

*Appointed by the Governor for terms of 12 years and
listed in order of original ascension. Terms of Regents
appointed by the Governor expire March 1 of the year
shown in parentheses

*Secretary and Treasurer of the Alumni Association of
the University of California and Regents-Designate (successor)
The Student Regent and Alumni Regent serve for one
year beginning July 1 and ending June 30 of the year
shown in parentheses