COMMUNICATION of Courses

815. Organizational Communication Winter, Spring. 4(4-0) Structure and function of communication in organizations, with emphasis on concepts and principles needed for effective management of organizational communication processes.

820. Communication Theory and Process Fall, Summer. 4(4-0) Theoretic models of communication, with emphasis on applications of communication theory to various professional communication areas.

821. Mass Communication Theory and Research Fall, Spring. 4(4-0) Current behavioral science theories and research, e.g., media institutions, decision-making, mass media exposure patterns, diffusion of news and influence, effective message strategies, political communication, and mass media in socialization.

822. Interpersonal Communication Winter, Summer. 4(3-0) Current theories and research in interpersonal communication with emphasis on persuasion. The role of interpersonal communication in such processes as conflict resolution and information exchange will be considered.

828. Cross-Cultural Communication Winter, Spring, Summer. 4(4-0) Role of communication in the economic, social and political development of less developed countries. Problems in communicating across cultural boundaries.

830. Nonverbal Communication Fall. 4(4-0) A review of theory and empirical research on nonverbal communication with implications for application.

850. Seminar in Research Utilization Winter, Summer. 4(4-0) May be repeated for a maximum of 8 credits. Approval of department. Applications of communication research to professional practice in such areas as teaching, change agencies, information systems management, etc.

870. Communication and Change: The Diffusion of Ideas and Information Fall, Spring. 4(4-0) Research traditions underlying the diffusion of ideas and information, and acceptance of innovation and change. Strategic principles for implementation of change through the use of communication.

890. Special Problems Fall, Winter, Spring, Summer. 1 to 6 credits. Approval of department. Special problems as arranged with instructor.


905. Communication Research Design Fall, Winter, Spring. 4(4-0) May be repeated for a maximum of 10 credits. COM 500, Methods of data collection and analysis in communication research. Designing exploratory studies of the communication process. Interviewer training and bias. Content analysis of the mass media. Writing and critiquing research reports.

940. Seminar in Communication Theory and Research Fall, Winter, Spring, Summer. Variable credit. May be repeated for a maximum of 45 credits. Approval of department. Theoretical and research issues in communication.

990. Special Problems Fall, Winter, Spring, Summer. 1 to 6 credits. Approval of department.

999. Doctoral Dissertation Research Fall, Winter, Spring, Summer. 1 to 36 credits. Approval of department.

COMMUNICATION ARTS AND SCIENCES (COLLEGE OF) CAS

492. Special Topics Fall, Winter, Spring, Summer. 1 to 6 credits. Approval of department. Varied topics pertaining to the study of communication processes.

IDC. Aging and Communication For course description, see Interdisciplinary Courses.

892. Special Topics Fall, Winter, Spring, Summer. 1 to 6 credits. Approval of department. Varied topics pertaining to advanced study of communication processes.


COMMUNITY HEALTH SCIENCE CMS

510. Health, Medical Care and Society Summer. 2 to 5 credits. Admission to a college of medicine or approval of department. The role of social, cultural and psychological variables in health and illness and in health care delivery. Special attention to patient/physician behavior and health maintenance, health education and patient compliance.

511. Epidemiology and Biostatistics Winter. 2 to 5 credits. Admission to a college of medicine or approval of department. Epidemiology and biostatistics in clinical medicine and health care delivery. Evaluation of medical investigations. Applicability to preventive medicine and health maintenance. Field experiences and seminars in community medicine.

513. Medical Jurisprudence Spring. 2 to 5 credits. Admission to a college of medicine or approval of department. Basic concepts of the legal process and the health care system. Law suits, malpractice, statutory and case law, insurance and tax consideration. Continuing field experiences and seminars in community medicine.

514. Topics and Issues in Health Care Delivery I Summer. 2 to 5 credits. Admission to a college of medicine or approval of department. Medical economics, health care financing and organization, manpower utilization, resource allocation, health services administration, patterns of medical practice, politics of health care. Continuing field experiences and seminars in community medicine.

515. Topics and Issues in Health Care Delivery II Fall, 2 to 5 credits. Admission to a college of medicine or approval of department. Continuation of CMS 514.

516. Field Experience in Community Medicine I Winter. 1 to 5 credits. Admission to a college of medicine or approval of department. Continuation of CMS 515 field experiences and seminars.

517. Field Experience in Community Medicine II Spring. 1 to 5 credits. Admission to a college of medicine or approval of department. Continuation of CMS 516 field experiences and seminars.

518. Aging: Clinical and Community Perspectives (H M 534) Spring. 4(3-3) Medical student or approval of instructor. Multi-dimensional aspects of aging and their application to long-term, continuing care of the chronically ill older adult.

A-44
519. Health Education in Clinical Settings
Spring, 3(2-3) Approval of instructor.
Application of concepts from social and behavioral sciences to clinical health education through laboratory and classroom experiences including development of a model educational plan for a specific health problem.

520. Biostatistical and Epidemiological Reasoning
Winter, 3(3-0) Approval of instructor.
Interdepartmental with the Department of Statistics and Probability.
Concepts and principles from biostatistics and epidemiology to facilitate critical reading literature relevant to clinical medicine and community health. Emphasis on design and interpretation.

521. Evaluation of Health Services
Spring, 2 to 4 credits. Approval of instructor. Interdepartmental with the School of Nursing.

530. Care of the Elderly
Fall, Spring, 3(2-2) Student in H M, OST or other clinical program or approval of instructor. Interdepartmental with and administered by the Department of Family Practice.
Case studies of the care of the elderly based on the physician-patient interaction with elderly persons and their families. Family systems applications to health care. Associated clinical experience.

590. Special Problems in Community Medicine
Fall, Winter, Spring, Summer. 1 to 8 credits. May enroll for a maximum of 32 credits. Approval of department.
Each student will work under direction of a faculty member on an experimental, theoretical or applied problem.

600. Preventive Medicine and Public Health Clerkship
Fall, Winter, Spring, Summer. 2 to 12 credits. Successful completion of first two years of medical school.
Clinical and community experiences in personal and community health services, environmental health, and other health and medical programs which meet health needs of various population groups.

610. Geriatric Clerkship
Fall, Winter, Spring, Summer. 2 to 12 credits. Successful completion of first two years of medical school.
Clinical and community experiences including history taking, patient assessment, development and use of management and care plan and use of community resources for the long term care of the aged.

620. Directed Studies in Community Medicine
Fall, Winter, Spring, Summer. 1 to 6 credits. May enroll for a maximum of 24 credits. Approval of department.
Individual projects on special problems related to community medicine.

COMPUTER SCIENCE - Descriptions of Courses

501. FORTRAN Laboratory
Fall, Winter, Spring, Summer. 1(0-3) CPS 252 or concurrent. Students may not receive credit in CPS 301 and in CPS 110 or CPS 120.
Programming laboratory using FORTRAN.

504. PASCAL Programming
Fall, Summer, 2(1-3) CPS 300, MTH 113. Students with credit in CPS 231 may not receive credit in CPS 304.
Programming style, problem solving methods, data structure, trees. Design and implementation of algorithms in PASCAL.

505. List Processing Languages
Winter, 3(3-0) CPS 300 or approval of department.
Development and implementation of computer programs in string and list processing languages. Emphasis upon non-numeric applications. Structure of a simple list processing language. Comparison of list processing languages.

511. Assembly Language and Machine Organization
Fall, Winter. 4(3-1) CPS 252, CPS 301 or CPS 304, MTH 214 or LBC 210.

512. Generative Coding and Information Structures
Winter, Spring. 4(3-1) CPS 311.
Macro facilities, conditional assembly, interaction with monitor, assembly language I/O. Use of buffer, stack, queue, deque, tree and list data structures. Interpreters, recursive routines.

513. Introduction to System Programming
Fall, Spring, Summer. 4(3-1) CPS 312.
Loaders and operating systems. Study of existing batch and time-sharing systems. Design and implementation of part of an operating system. Segments, overlays, multi-processing and multi-programming.

521. Introduction to Discrete Structures
Fall, Winter. 3(3-0) CPS 252 or CPS 300, MTH 214 or LBC 216.
Set operations, relations, functions and mappings. Boolean algebra, Boolean matrices, truth tables, minimization. Propositional and predicate calculus, well formed formulas, precedence relations, quantifiers. Applications to computer science.

522. Introduction to Theory of Computing
Winter, Spring. 3(3-0) CPS 321, MTH 215 or LBC 217.
Finite-state machines, stack automata, Turing machines. Effective procedures and computability. Introduction to recursive functions. Symbol manipulation systems.