

Descriptions — Civil and Environmental Engineering

of Courses

899. **Master's Thesis Research**
(S E 899.) Fall, Winter, Spring, Summer. Variable credit. Approval of department.
916. **Advanced Environmental Control**
(S E 916.) Spring. 4(1-9) ENE 804.
Design of advanced methods for control of environmental pollutants.
999. **Doctoral Dissertation Research**
(S E 999.) Fall, Winter, Spring, Summer. Variable credit. Approval of department.

CLASSICAL STUDIES

See Romance and Classical Languages.

COMMUNICATION COM

College of Communication Arts and Sciences

100. **Human Communication**
Fall, Winter, Spring, Summer. 3(3-0).
Process and functions of communication. Principles underlying communication behavior. Practice in analyzing communication situations and in speaking and writing.
115. **Oral Communication**
Fall, Winter, Spring, Summer. 3(3-0)
COM 100 or approval of department.
Principles and practice in adapting to audiences, creating and structuring messages, and developing effective delivery of formal and informal speeches. Critical evaluation of speeches by instructor and peers.
125. **Interpersonal Communication**
Fall, Winter, Spring, Summer. 3(3-0)
COM 100.
Develop students' abilities to become more effective, responsible participants in interpersonal communication relationships, with emphasis on relating communicatively with others.
199. **Methods of Inquiry**
Fall, Winter, Spring, Summer. 3(3-0)
COM 125.
Major theoretic orientations toward communication. Primary tools of scholarly inquiry.
205. **Persuasion**
Fall, Winter, Spring, Summer. 4(4-0)
COM 100.
Process of influencing human behavior through persuasive communication. Experience in creating persuasive messages and in evaluating the acceptability of persuasive attempts.
210. **Leadership and Group Communication**
Fall, Winter, Spring, Summer. 4(4-0)
COM 100.
Principles and practice in the utilization of communication for effective leadership, with special emphasis on group communication.
250. **Argumentation**
Fall, Winter, Spring. 4(4-0) COM 199.
Development and use of arguments; recent perspectives in argumentation; rhetorical and empirical study of argumentative messages.
299. **Individual Projects**
Fall, Winter, Spring, Summer. 1 to 15 credits. May reenroll for a maximum of 15 credits. COM 199, approval of project proposal by department.
Independent research, experience in communication laboratories, or tutorial work in communication skills.
Approved through Fall 1989.
300. **The Effects of Mass Communication**
Fall, Winter, Spring, Summer. 4(4-0)
Interdepartmental with and administered by the Department of Telecommunication.
Major social effects of mass media on audience behavior. Political communication. Media effects on children. Message strategies producing attitude change. Interrelationship between mass media and interpersonal communication. Decision making in mass media.
315. **Organizational Communication**
Fall, Winter, Spring. 4(4-0) COM 100.
Principles and practice in the management of communication systems, with emphases on conflict resolution, information exchange, innovativeness, and information management.
350. **Signs and Sign-Behavior**
Fall, Winter, Spring, Summer. 4(4-0)
COM 100.
Theories of symbolic behavior. Language structure and communicative functions.
352. **Nonverbal Communication**
Fall. 4(4-0) COM 100.
Major nonverbal communication codes and functions they perform. Codes: body movement, touch, physical appearance, paralanguage, use of space, time, artifacts. Opportunities to analyze nonverbal communication of self and others.
399. **Special Topics in Communication**
Fall, Winter, Spring, Summer. 4(4-0)
May reenroll for a maximum of 8 credits. Juniors.
Contemporary issues in communication.
405. **Quantitative Strategies in Communication Research**
Fall, Spring. 4(4-0) Seniors.
Design and statistical strategies in communication research. Project design and evaluation schema. Basic data handling and presentation.
413. **Seminar in Communication Education**
Spring. 4(4-0) T E 322.
Philosophies of curricular and co-curricular programs in communication education. Internship experience in those programs.
Approved through Summer 1990.
425. **Communication Campaign Analysis**
Fall. 4(4-0) COM 300 or approval of department.
Design of persuasive and information campaigns. Techniques and strategies for analyzing and influencing mass audience. Principles and practice in constructing messages and selecting media. Political and public service campaign focus.
430. **Information and Technology**
Winter. 4(4-0) COM 315 or approval of department.
Concepts and principles of information and information technology, with emphasis on effects on organizational processes.
431. **Conflict in Communication**
Winter. 4(4-0) COM 125 or approval of department.
Elaboration of theories in conflict resolution; development of strategies to resolve conflict situations; personal analysis of communication patterns that can affect conflict.
450. **Fund Raising and Grant Writing**
Fall of even-numbered years. 4(4-0)
Juniors.
Fund raising for nonprofit organizations: corporate, individual, and foundation giving. Grant writing.
460. **Critical Perspectives on Communication**
Fall, Winter, Spring. 4(4-0) COM 100.
Interdependence of communication and other societal factors, emphasizing criteria for ethical and social appropriateness.
475. **Relational Communication**
Spring. 4(4-0) COM 125.
Theories and current research on relational communication, including stages of relational communication development; verbal and nonverbal relational messages of intimacy, similarity, arousal, privacy and dominance; role of culture and context.
495. **The Internship Experience**
Fall, Winter, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. COM 100, COM 125, COM 199, 3 other COM classes; Junior major; approval of department.
The internship provides hands on job experience in the professional field and a real world laboratory to test theories learned in the classroom.
499. **Special Projects**
Fall, Winter, Spring, Summer. 1 to 15 credits. May reenroll for a maximum of 15 credits. Approval of project proposal by department.
Independent research, group research, student-directed group projects.
804. **Communication Research**
Fall. 4(4-0) COM 820 or approval of instructor.
Theoretical issues in the areas of interpersonal, organizational and mediated communication.
805. **Communication Research**
Winter. 4(4-0) First year graduate majors.
Communication research strategy and methodology. Scientific process, bases for derivation and verification of hypotheses, and basic methods of designing research in communication.
806. **Communication Research**
Spring. 4(4-0) COM 805; first-year graduate majors.
Continuation of COM 805.
815. **Organizational Communication**
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. 4(4-0)
Theoretic models of communication, with emphasis on the applications of communication theory to various professional communication areas.

822. Interpersonal Communication
Winter. 4(4-0)

Current theories and research in interpersonal communication. The role of interpersonal communication in such processes as conflict resolution and information exchange will be considered.

828. Cross-Cultural Communication
Fall. 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
Winter. 4(4-0)

A review of theory and empirical research on nonverbal communication. Emphasis on social functions such as impression management, regulation and social influence.

840. Communication and Small Group Behavior
Fall. 4(4-0)

Forces by which groups are formed. Role of communication in small group performance, decision making, problem solving, and leadership.

860. Persuasive Communication
Spring. 4(4-0)

Use of communication to gain compliance and effect social change. Study of persuasion and attitude change from classical theories to contemporary situations.

870. Communication and Change: The Diffusion of Ideas and Information
Winter. 4(4-0)

Research traditions underlying the diffusion of ideas and information, and acceptance of innovation and change. Strategic principles for introduction of change through the use of communication.

880. Message Behavior, Signs and Communication
Spring. 4(4-0)

Language and message behavior. The nature of messages, their structure, and the contexts (e.g. dyads, groups, organizations) that promote certain message behavior.

890. Special Problems

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

895. Internship/Practicum

Fall, Winter, Spring, Summer. 1 to 9 credits. May reenroll for a maximum of 9 credits. Approval of department. Master's student in Communication.

Supervised advanced graduate practicums, observations, internships, and externships in various areas of emphasis.

899. Master's Thesis Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

905. Communication Research Design

Fall, Winter, Spring. 4(4-0) May reenroll for a maximum of 16 credits.

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. 2 to 8 credits. May reenroll for a maximum of 45 credits. Approval of department.
Theoretic 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. Variable credit. Approval of department.

**COMMUNICATION ARTS
AND SCIENCES (COLLEGE OF) CAS**

492. Special Topics

Fall, Winter, Spring, Summer. 1 to 8 credits. May reenroll for a maximum of 24 credits. Approval of department.

Varied topics pertaining to the study of communication processes.

892. Special Topics

Fall, Winter, Spring, Summer. 1 to 8 credits. May reenroll for a maximum of 24 credits. Approval of department.

Varied topics pertaining to advanced study of communication processes.

990. Research Internship

Fall, Winter, Spring, Summer. 1 credit. May reenroll for a maximum of 6 credits. Research practice in association with a designated faculty member.

999. Doctoral Dissertation Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.
Dissertation research for the doctoral program in Mass Media.

**COMMUNITY HEALTH
SCIENCE CMS**

College of Osteopathic Medicine

512. Epidemiology and Biostatistics

Fall. 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

Fall. 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

Fall. 2 to 5 credits. Admission to a college of medicine or approval of department.

Medical economics, health care financing and organization, personnel utilization, resource allocation, health services administration, patterns of medical practice, politics of health care. Continuing field experiences and seminars in community medicine.

518. Aging: Clinical and Community Perspectives

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.

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.

521. Evaluation of Health Services

Spring. 2 to 4 credits. Approval of instructor. Interdepartmental with the College of Nursing.

Use of experimental and quasi-experimental designs. Cost benefit and efficiency models. Assessment of health services delivery.

522. Principles of Gerontology for Medical Practice

Spring. 3(3-0) Admission to a college of medicine or approval of department.

An introductory course relating the biological, psychological and social implications of aging to health care of elderly.

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.

543. Health and Adaptation of the Elderly

Fall. 3(3-0) Baccalaureate degree in health science; approval of instructor. Interdepartmental with and administered by the College of Nursing.

Health and adaptation of the aged individual experiencing the normative biophysiologic and psychodevelopmental changes related to the aging process.

590. Special Problems in Community Medicine

Fall, Winter, Spring, Summer. 1 to 8 credits. May reenroll 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.