873. Theory of Probability and Statistics III  
Spring. 3(3-0) 872; MTH 927 or concurrently; or approval of department. 

876. Statistical Inference in Economics I  
Fall. 3(3-0) 443 or 663; EC 812A or 801; or approval of department. Interdepartmental with the Agricultural Economics and the Economics Departments and administered by the Economics Department. 

877. Statistical Inference in Economics II  
Winter. 3(3-0) EC 876 or approval of department. Interdepartmental with the Agricultural Economics and Economics Departments and administered by the Economics Department. 

881. Probability and Stochastic Processes I  
Fall. 3(3-0) MTH 881 or concurrently. 

882. Probability and Stochastic Processes II  
Winter. 3(3-0) MTH 882 or concurrently. 

883. Probability and Stochastic Processes III  
Spring. 3(3-0) MTH 883 or concurrently. 

886. Stochastic Processes and Technological Applications  
Winter. 3(3-0) 443 or 861. 

887. Stochastic Models in the Physical Sciences  
Spring. 3(3-0) 886 or approval of department. 
Selected models from the physical sciences. These may include topics from the theory of queues, the theory of dama, and branching processes in cosmic ray theory.

890. Statistical Problems  
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

899. Research  
Fall, Winter, Spring. Variable credit. Approval of department.

927. Theory of Measure and Integration  
Spring. 3(3-0) MTH 922. Interdepartmental with and administered by the Department of Mathematics. 
Introduction to the theory of integration over abstract spaces. Topics include: measure spaces; measurable and integrable functions; modes of convergence, theorems of Egoroff, Lusin, Rieman-Fischer, Lebesgue; absolute continuity, and the Radon-Nikodym theorem; product measures and Fubini's theorem. Applications to some of the classical theories of integration and summability.

937. Systems Simulation  
Fall. 4(4-0) MGT 836, STT 423, MTH 928. Interdepartmental with and administered by the Management Department. 
The concept of a model, model building, characteristics of simulation models. Techniques of computer simulation. Simulation models in research and management planning/control. Validation and experimental design. Special purpose languages.

948. Mathematical Programming for Business  
Spring. 4(4-0) MGT 836, MTH 334, 426, STT 863. Interdepartmental with and administered by the Management Department. 

971. Advanced Theory of Statistics I  
Fall. 3(3-0) 877, MTH 927, 951 or concurrently. 

972. Advanced Theory of Statistics II  
Winter. 3(3-0) 971; 982 or concurrently. 

973. Advanced Theory of Statistics III  
Spring. 3(3-0) 972. Continuation of 972.

981. Advanced Theory of Probability I  
Fall. 3(3-0) 885; MTH 927 or approval of department. 

982. Advanced Theory of Probability II  
Winter. 3(3-0) 981 or approval of department. 
Central limit problem: the classical limit problem, the bounded variances case, and limit laws for infinitely divisible random variables. Conditional probabilities and expectations. Martingales with discrete time.

983. Advanced Theory of Probability III  
Spring. 3(3-0) 982 or approval of department. 

990. Problems in Statistics and Probability  
Fall, Winter, Spring, Summer. 1 to 4 credits. May re-enroll for a maximum of 10 credits. 872. Seminar or individual study on an advanced topic in statistics.

995. Topics in Statistics and Probability  
Fall, Winter, Spring. Variable credit. Nonparametric statistics, multivariate statistical analysis, statistical time series analysis, Bayesian statistics, reliability theory, stochastic approximation, design of experiments, sets of decision problems, stochastic processes, sequential analysis, other topics.

999. Research  
Fall, Winter, Spring. Variable credit. Approval of department.

STUDIO ART  
See Art.

SURGERY*  
College of Human Medicine

608. Surgery Clerkship  
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 43 credits. II M 602. 
An introduction to the surgical patient, stressing surgical diagnosis, pre-operative evaluation and post-operative care. Objectives are designed to help the student attain acceptable levels of surgical competence for physicians. *Established February, 1971.
609. Otolaryngology Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 909.
Common otolaryngologic disorders, emergencies, including diagnosis and treatment, and judgments concerning proper management by primary physicians.

610. Plastic Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 902.
Principles of wound healing and tissue repair. Indications and applications of plastic procedures.

611. Urology Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 909.
Demonstration of clinical manifestations of genito-urinary disease, investigative methods and techniques of diagnosis and management, familiarity with urologic emergencies and performance of basic urologic skills.

612. Rectal Surgery
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 602.
Data collection, physical examination, and problem formulation relating to colorectal disease. Instruction in special techniques, examinations, and surgical procedures is an important aspect of the experience.

613. Orthopedic Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 609.
Diagnostic and management information and skills, including emergent cases, in common orthopedic problems.

614. Neurosurgery Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 602.
A hospital-based experience to provide the student with familiarity with the field and understanding of the contribution of neurosurgery in medicine generally.

615. Ophthalmology Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 909.
Development of skills and knowledge in ophthalmoscopy, neuro-ophthalmology, visual function, and management of problems such as glaucoma, the red eye, and trauma.

616. Thoracic Surgery Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 902.
Problem-solving in thoracic medicine and surgery, also stressing pulmonary physiology, use of diagnostic tools and tests, and indications for surgical procedures.

617. Emergency Medicine Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 909.
Exposure to acute problems of wide variety is provided by this experience. Evaluation, management, and disposition of patients is seen in the framework of the continuing patient care system.

SYSTEMS SCIENCE
See Electrical Engineering and Systems Science.

TELECOMMUNICATIONS TC
College of Communication Arts and Sciences

120. Telecommunication in the United States
Fall, Winter, Spring. 3(3-0) Non-majors.
History, economics, public control, programming, social effects and future of telecommunication: primarily radio and television broadcasting and cable communication. Citizen responsibilities in the development of telecommunication systems and services.

150. Introduction to Telecommunication
Spring. 3(3-0) Majors.
Nature, development, economics, social control and influence of the telecommunication media in modern society.

201. Fundamentals of Radio Broadcasting
Fall, Winter, Spring. 4(2-4) 301.
Basic orientation to the radio studio, with laboratory experiences in production, writing, and performance.

202. Fundamentals of Television Broadcasting
Fall, Winter, Spring. 4(2-4) 301.
Basic orientation to the television studio, with laboratory experiences in production, writing, and performance.

290. History of the Motion Picture
Fall, Winter. 4(2-4) Sophomores.
Development of the motion picture from its beginning to the present, emphasizing social, historical, and cultural values. Screening of significant films from various periods and countries.

310. Basic Telecommunication Policy
Winter, Spring. 4(4-0) 150, Juniors, approval of department.
Essential U.S. public communication policy is treated through rigorous methodological analysis of case and statutory law, public documents and related primary materials.

333. Television Directing
Fall, Winter, Spring. 1(4-2) 302 and approval of department.
Television producing and directing methods with assigned experiences in the television studios.

335. Television and Radio Audience Studies
Winter, Summer. 3(3-0) Juniors.
Analysis and evaluation of broadcast audience measurement services and other feedback systems. Broadcast audience characteristics, attitudes and behavior.