983. Advanced Theory of Probability III
Spring. 4(4-0) 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. 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, Summer. Variable credit. Approval of department.

STUDIO ART
See Art.

SURGERY* SUR
College of Human Medicine

608. Surgery Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 43 credits. H 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.

609. Otolaryngology Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. H M 602.
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 602.
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 602.
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 problems formulated relating to colon and rectal disease. Involvement 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 602.
Diagnostic and management information and skills, including emergencies, 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 602.
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 602.
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 602.
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.

TELEVISION AND RADIO T R
College of Communication Arts

100. Foundations of Broadcasting
(271.) Fall, Spring, Summer. 3(3-0)
Origins, development, nature, and function of radio and television in modern society.
Descriptions — Television and Radio of Courses

390. **Cinema I**
Fall, 4(3-2) 200 and approval of department.
Survey of the film production process: concepts, techniques, procedures, problems, tools. Emphasis on production as the execution of film design.

399. **WKAR-TV Internship**
Fall, Winter, Spring. 2 credits. May re-enroll for a maximum of 4 credits. 300 television-radio majors only; approval of department. Internship in television studio operation.

401. **Television and Radio Station Management**
Fall, Spring. 4(4-0) Seniors and 15 credits in television and radio courses.
Problems of station management in budgeting, programming, sales, government regulation and community relations.

402. **Television and Radio Station Programming**
(486.) Winter, Spring. 4(4-0) Seniors and 15 credits in television and radio courses.
Objectives and methods of planning television and radio programs. Evaluation of individual program formats and their relation to various types of audiences and markets. Laws and regulations affecting programming.

403. **Current Issues in Broadcasting**
(497.) Spring. 4(4-0) Seniors and 15 credits in television and radio courses.
Critical examination of contemporary problems and issues in broadcasting. Residual and outside speakers. Preparation of significant research paper.

437. **Television Program Development**
Winter, Summer. 3(3-0) Senior non-majors.
Television production planning and practice. Designed for non-majors who desire a working knowledge of the medium for application in other fields.

451. **Advanced Television Directing**
Fall, Spring. 3(0-6) Senior majors.
Assignments in television directing of programs written and produced by students in 351.

489. **International Broadcasting**
(399.) Fall, Summer. 4(4-0) Seniors; Juniors with approval of department.
Importance of national and international systems of broadcasting; their history, programming patterns and control.

498. **Individual Projects**
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

501. **Trends and Issues in Broadcasting**
Spring, Summer. 4(4-0) Approval of department.
Salient issues and prevailing trends in broadcasting. Consideration of inter-dependencies and relationships within and between broadcasting organizations and society.

822. **Art Instructional Media Laboratory II — Television**
Fall, Winter, Spring, Summer. 4(1-9) May re-enroll for a maximum of 5 credits. Approval of department. Intersessional and joint administration with the Department of Art.
Analysis of teaching video tapes and television programs in art. Utilization of television as a medium of artistic expression and communication for application to art education or related fields.

830. **The Television Producer**
Fall, Winter. 4(4-0) 333 or approval of department.
Producer's functions in planning and supervising the execution of television programs, with emphasis on content, organization and use of production techniques to secure the intended audience response.

851. **Broadcast Management: Profit and Personnel**
Spring. 4(4-0) 401 or approval of department.
The management of station finances and the motivation of station personnel.

885. **Teaching of Broadcasting**
Summer. 4(4-0) Approval of department.
Philosophy and objectives of instruction in broadcasting. The undergraduate and graduate curricula. The content of radio and television courses and methods of teaching.

890. **Research**
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

91. **Theatre Appreciation: Foundations**
Fall, Winter, Spring, Summer. 3(3-0).
Theatre arts as a recreational, cultural and social force in contemporary life; fundamentals of play production and analysis for critical appreciation.

931. **Research Methods in Broadcasting**
Fall, Summer. 4(4-0) Approval of department.

940. **Broadcast Management: Sales and Promotion**
Winter. 4(4-0) 401 or approval of department.
Direction and supervision of station sales and promotion personnel in securing and servicing national, regional and local accounts.

951. **International Broadcasting: Foreign Domestic Systems**
(895.) Winter. 4(4-0) Approval of department.
Organization, financing, and programming as related to historic and cultural determinants. Special emphasis on the role of broadcasting in developing nations.

(995.) Spring. 4(4-0) Approval of department.
Propaganda and information services. International coordinating organizations such as ITU, UNESCO, Eurovision, and Intervision. Development in satellite communication.

THEATRE

College of Arts and Letters

101. **Theatre Appreciation: Foundations**
Fall, Winter, Spring. Summer. 3(3-0).
Theatre arts as a recreational, cultural and social force in contemporary life; fundamentals of play production and analysis for critical appreciation.

103. **Theatre Foundations: Stagecraft**
Fall, Winter, Spring. Summer. 3(0-6)
Majors.
Materials utilized in theatre and necessary fabrication skills. Emphasis on structural qualities, color theory and design fundamentals.

†Effective January 1, 1971. Formerly in College of Communication Arts.