983. Advanced Theory of Probability III

Spring. 4(4-0) 982 or approval of department.

Ergodic theory; individual and $L_{\mathcal{D}}$ ergodic theorems. Second order processes, weakly and strongly stationary processes. Foundations; separability and measurability of processes, properties of sample functions. Continuous time martingales. Processes with independent increments.

990. Problems in Statistics and Probability

Fall, Winter, Spring, Summer. 1 to 4 credits. May re-enroll for a maximum of 10 credits. 873.

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.

*Established February, 1971.

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 problem formulation 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)

Origin, development, nature, and function of radio and television in modern society.

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

(272.) Fall, Winter, Spring, Summer. 4(2-4) 150.

Basic orientation to the radio studio, with laboratory experiences in production, writing, and performance.

202. Fundamentals of Television Broadcasting

(352.) Fall, Winter, Spring. 4(2-4)

Basic orientation to the television studio, with laboratory experiences in production, writing, and performance.

280. History of the Motion Picture Fall, Winter. 4(2-4) Sophomores.

Development of the motion picture from its beginning to the present, emphasizing social background and cultural values. Screening of significant films from various periods and countries.

333. Television Directing

(433.) Fall, Winter, Spring, Summer. 4(2-4) 202 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.

350. Advanced Radio Production

(450.) Winter, Spring. 4(2-4) 201 and approval of department.

Planning, coordinating and producing the radio program. Emphasis on documentary and studio productions utilizing original ideas and methods.

351. Television Studio Production

Fall, Spring. 4(2-4) Junior majors, 202 and approval of department.

Advanced television crew operations. Writing and production of programs directed by students in 451.

386. Broadcast Promotion Winter, Spring. 4(4-0) 202 and

Juniors.

Purpose, creation and production of promotional ideas and material in broadcasting. Introduces the student to the promotional facet of broadcasting, relating it to increasing sales, audience size and improving public relations.

390. Cinema I

Fall. 4(3-2) 280 and approval of department.

Survey of the film production process: concepts, techniques, procedures, problems, tools. Emphasis on production as the execution of film design.

WKAR-TV Internship 399.

Fall, Winter, Spring. 2 credits. May re-enroll for a maximum of 4 credits. 202; television-radio majors only; approval of department.

Internship in television studio operation.

Television and Radio Station 407. Management

(485.) 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.

Television and Radio Station 402. 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.

Current Issues in Broadcasting 403. (497.) Spring. 4(4-0) Seniors and 15 credits in television and radio courses.

Critical examination of contemporary problems and issues in broadcasting. Resident and outside speakers. Preparation of significant research paper.

437. Television Program Development Winter, Summer. 3(3-0) Senior non-

maiors.

Television production planning and practices. Designed for non-majors who desire a working knowledge of the medium for application in other fields.

Advanced Television Directing

Fall, Spring. 3(0-6) Senior majors, 333 and approval of department.

Assigned experiences in television directing of programs written and produced by students

489. Television and Radio in Education

Fall, Summer. 4(4-0) Seniors; Juniors with approval of department.

Uses of broadcast media for instructional purposes, both on-the-air and in the classroom. Current usages by institutions of higher learning and public schools, including both broadcasting and closed-circuit television. Survey of research studies of the effects of educational broadcasting. Types of educational programs are evaluated. Specialists in educational radio and television participate as guest lecturers.

490. Cinema II

(391.) Spring. 4(1-6) 390 and approval of department.

Theory and practice in film production: script, scheduling, shooting, editing, sound. Elabora-tion and implementation of Cinema I concepts.

International Broadcasting 498.

(398.) Fall, Summer. 4(4-0) 5 iors; Juniors with approval of department. Important national and international systems of broadcasting, their history, programming patterns and control.

499. Individual Projects

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

801. Trends and Issues in Broadcasting

Spring, Summer. 4(4-0) Approval of department.

Salient issues and prevailing trends in broad-casting. Consideration of inter-dependencies and relationships within and between broad-casting organizations and society.

822. Art Instructional Media Laboratory II—Television

Fall, Winter, Spring, Summer. 4(1-9) May re-enroll for a maximum of 8 credits. Approval of department. Interdepartmental and jointly administered 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.

Research Methods in 831. Broadcasting

Fall, Summer. 4(4-0) Approval of department.

News and Public Affairs 840. Programming

Winter. 4(4-0) Approval of department.

Analysis of broadcast journalism functions in relation to program design. Writing practice in analytic and editorial forms. Programming responsibilities, legal and ethical restraints.

News and Public Affairs 841. Producing

Spring. 4(2-4) Approval of depart-

ment.

Researching, writing and producing extended news and public affairs reports.

850. 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.

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.

880. Public Broadcasting

Winter. 4(4-0) 489 or approval of department.

Investigation of the role, organization, and problems of non-profit broadcasting by television and radio, especially since its recogni-tion by federal legislation as an alternate pro-gram service to commercial broadcasting in the United States.

Teaching of Broadcasting 885.

Summer. 4(4-0) Approval of depart-

ment.

Philosophy and objectives of instruction in broadcasting. The undergraduate and graduate curricula. The content of radio and television courses and methods of teaching.

890. Special Problems

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

Research

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

941. Evaluation and Criticism in Broadcasting and Film

Winter. $3(3-\overline{0})$ Approval of department.

Formulation and application of standards for objective appraisal of the social, ethical and artistic aspects of radio, television and film pro-

Global Broadcasting: Foreign 990. Domestic Systems

(995.) Winter. 4(4-0) 498 or approval of department.

Organization, financing, and programming as related to historic and cultural determinants. Special emphasis on the role of broadcasting in developing nations.

991. Global Broadcasting: International Systems

(995.) Spring. 4(4-0) 498 or approval of department.

Propaganda and information services. Internacoordinating organizations such as ITV, UNESCO, Eurovision, and Intervision. Developments in satellite communication.

THEATRE

THR

College of Arts and Letters

101. Theatre Appreciation: Foundations 5 4 1

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 ap-

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.