

**972. Advanced Theory of Statistics II**  
Winter. 4(4-0) 971; 982 or concurrently.

Statistical convergence theorems. Variables and distributions in  $n$ -space. Asymptotic and exact sampling distributions. Tests of significance.

**973. Advanced Theory of Statistics III**  
Spring. 4(4-0) 972.

Continuation of 972.

**981. Advanced Theory of Probability I**

Fall. 4(4-0) 863; MTH 927 or approval of department.

Measures on infinite product spaces and Kolmogorov' consistency theorem. Distributions and characteristic functions. Independence. Series of independent random variables.

**982. Advanced Theory of Probability II**

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

Ergodic theory; individual and  $L_p$  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.

**995. Advanced Topics in Statistics**

Fall, Winter, Spring. Variable credit.

**999. Research**

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

## STUDIO ART

See Art.

## SURGERY\*

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### 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 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 ophthalmology, 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

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### 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.

**201. Fundamentals of Radio Broadcasting**

(272.) Fall, Winter, Spring, Summer. 4(2-4) 100. Sophomore television-radio majors.

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) 201.

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.) 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. 3(3-0) 280 or approval of department.

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

**401. Television and Radio Station 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.

**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.

\*Established February, 1971.