### Descriptions – Surgery of Courses

#### 610. Plastic Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May reenroll 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 reenroll for a maximum of 34 credits. H M 602.

Demonstration of clinical manifestations of genitourinary disease, investigative methods and techniques of diagnosis and management, familiarity with urologic emergencies and performance of basic urologic skills.

#### 613. Orthopedic Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May reenroll 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 reenroll 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 reenroll 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 reenroll 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.

#### 618. Anesthesiology Clerkship
Fall, Winter, Spring, Summer. 4 to 16 credits. May reenroll for a maximum of 18 credits. H M 602.

Introduces common anesthetic agents and provides opportunity for performing anesthetic procedures under faculty supervision.

#### 630. Emergency Medicine Clerkship
Fall, Winter, Spring, Summer. 4 to 8 credits. May reenroll for a maximum of 8 credits. SUR 699, HD 699 or MED 698, H M 602. Interdepartmental with and administered by the Department of Medicine.

Pathophysiology and other basic concepts will be used to explain the development of emergent conditions. Clinical diagnosis and treatment of emergencies seen in community emergency departments will be discussed.

### TELECOMMUNICATION TC

(Formerly College of Communication Arts and Sciences)

#### 120. Telecommunication in the United States
Fall, Winter, Spring. 3 credits. Nonmajors. 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.

#### 210. Telecommunication Processes
Fall. 3 credits. Sophomores, Telecommunication majors.

Human communication processes and behavior as modified by telecommunication. Audiences of telecommunication. Functions and dysfunctions of telecommunication. Contemporary implications of telecommunication media on society.

#### 220. History and Economics of Telecommunication
Winter. 4 credits. Sophomore TC majors.

Historical and cultural development and underlying economic principles of the telecommunication field, including broadcast programs.

#### 230. Basic Telecommunication Technology
Spring. 4 credits. Sophomore TC majors.

An analysis of technical factors involved in electronic communication: transmission, sound physics and audio technology, light physics, visual behavior and image technology, computer and automation controls, technical telecommunication policy formulation.

#### 250. History of the Motion Picture
Fall, Winter. 4 credits. 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.

#### 301. Basic Audio Production
Fall, Winter, Spring, Summer. 4 credits. Basic orientation to audio and radio studios, with laboratory experiences in production, writing and performance.

#### 302. Basic Video Production
Fall, Winter. 4 credits. Basic orientation to video and television studios, with lab experiences in production, writing and performance.

#### 310. Basic Telecommunication Policy
Fall, Winter, Spring. Essential U.S. public communication policy is treated through rigorous methodological analysis of case and statutory law, public documents, and related primary materials.

### SYSTEMS SCIENCE

See Electrical Engineering and Systems Science.

### 335. Audience Survey and Analysis
Winter, Summer. 3 credits. Formerly College of Communication Arts.

Designing research for the study of telecommunication audiences. Survey research, sampling, questionnaire construction, research administration, analysis and interpretation of research results. Audience measurement services and feedback systems.

### 350. Advanced Radio Production
Fall, Spring. 4 credits. TC 301 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 credits. Junior majors, TC 302 and approval of department.

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

### 361. Television Directing
Fall, Winter, Spring. 4 credits. TC 301 and approval of department.

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

### 396. The Documentary Film
Spring. 4 credits. TC 280.

History of documentary film and analysis of documentary types, providing a solid basis for the understanding and evaluation of the nonfiction film. Screening of significant films.

### 399. WKAR-TV Internship
Fall, Winter, Spring. 2 credits. May reenroll for a maximum of 4 credits. TC 302; telecommunication majors only; approval of department.

Internship in television studio operation.

### 401. Station Operations and Programming
Fall, Spring. 4 credits. Formerly TC 335 and 24 credits in telecommunication courses.

Sales, ratings, station organization, departmental functions, promotion, program formats, station-community relations, ascertainment of community needs, license renewal, station-network relations.

### 415. Cable Communication
Fall, Winter. 4 credits. History, technology, public policy, services, economics, management and social effects of broadband cable communication systems.

### 437. Telecommunication Development
Winter, Summer. 3 credits. Formerly College of Communication Arts.

Television production planning and practices. Designed for non-majors who desire a working knowledge of the medium for application in other fields.
825. Seminar in Instructional Television
Spring, Summer. 3(3-0) Approval of department. Interdepartmental with and administered by the College of Education. Television use in instruction, particularly as it concerns the learner, the classroom teacher, the instructional developer and the administrator.

830. The Television Producer
Fall, Winter. 4(4-0) TC 361 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.

831. Media Research I
Fall. 4(4-0) Approval of department. Interdepartmental with the Department of Advertising. Survey and experimental research designs and their relationship to mass media problems. Applied mass media research, audience research, consumer studies, mass media message research.

832. Media Research II
Winter. 4(4-0) TC 831. Data analysis techniques and presentation of mass media research data. Models for the study of mass media research problems.

840. News and Public Affairs 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.

841. News and Public Affairs Producing
Spring. 4(2-4) Approval of department. Researching, writing and producing extended news and public affairs reports.

850. Broadcast Management: Sales and Promotion
Winter. 4(4-0) TC 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) TC 401 or approval of department. The management of station finances and the motivation of station personnel.

870. Global Broadcasting: Foreign Domestic Systems
(995, 999.) Winter. 4(4-0) TC 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.

(995, 999.) Spring. 4(4-0) TC 498 or approval of department. Propaganda and information services. International coordinating organizations such as ITU, UNESCO, Eurovision, and Intervision. Developments in satellite communication.

880. Public Broadcasting
Winter. 4(4-0) TC 450 or approval of department. Investigation of the role, organization, and problems of non-profit broadcasting by television and radio, especially since its recognition by federal legislation as an alternate program service to commercial broadcasting in the United States.

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.

887. Evaluation and Criticism in Broadcasting and Film
(941.) Winter. 3(3-0) Approval of department. Formulation and application of standards for objective appraisal of the social, ethical and artistic aspects of radio, television and film programs.

900. Special Problems
Fall, Winter, Spring. Variable credit. Approval of department.

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

910. Public Policy in Mass Media
Fall. 4(4-0) Students in the Ph.D. Program in the Mass Media or approval of department. Analysis of theory, documents and research in public policy as it relates to mass media including administrative, antitrust, copyright, advertising and communication policy.

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.

104. Introduction to Costume
Fall, Winter, Spring. 3(2-2) Aspects of theatrical costume including theory, patterning, materials, construction and history of dress.

204. Intensive Sophomore Practicum
Fall, Winter, Spring. 12(0-40) Theatre apprenticeship conducted on MSU campus and at Calumet Theatre.