

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 genito-urinary 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 16 credits. H M 602.

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

619. General Surgery Elective Clerkship
Fall, Winter, Spring, Summer. 4 to 16 credits. May reenroll for a maximum of 16 credits. H M 602 and SUR 608.

Experiences in clinical general surgery.

630. Emergency Medicine Clerkship
Fall, Winter, Spring, Summer. 4 to 8 credits. May reenroll for a maximum of 8 credits. SUR 608, H D 608 or MED 608; 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.

SYSTEMS SCIENCE

See Electrical Engineering and Systems Science.

TELECOMMUNICATION TC

College of Communication Arts and Sciences

120. Telecommunication Media and Society
Fall, Winter, Spring, Summer. 3(3-0) 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 Process and Effects
Fall. 3(3-0) Sophomores, Telecommunication majors.

Human communication processes and behavior as modified by telecommunication. Functions, audiences, and implications of electronic media on society.

220. History and Economics of Telecommunication
Winter. 4(3-2) Sophomore TC majors, EC 201.

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

230. Basic Telecommunication Technology
Spring. 4(3-2) Sophomore TC majors.

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

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.

301. Basic Audio Production
(201.) Fall, Winter, Spring, Summer. 4(2-4) TC 210, TC 220, TC 230.

Basic orientation to audio and radio studios, with laboratory experiences in production, writing and performance.

302. Basic Video Production
(202.) Fall, Winter, Spring. 4(2-4) TC 301.

Basic orientation to video and television studios, with lab experiences in production, writing and performance.

310. Basic Telecommunication Policy
Fall, Winter. 4(4-0) TC 210, TC 220, TC 230.

Essential U.S. public communication policy is treated through rigorous methodological analysis of case and statutory law, public documents and related primary materials.

335. Audience Survey and Analysis
Winter, Spring. 4(4-0) Juniors.

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

350. Advanced Radio Production
Fall, Spring. 4(2-4) 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(2-4) TC 302, approval of department.

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

361. Television Directing
(333.) Fall, Winter, Spring, Summer. 4(2-4) TC 302 and approval of department.

Television producing and directing methods with assigned experiences in the television studios.

390. Cinema I
Fall. 4(3-2) TC 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.

396. The Documentary Film
Spring. 4(2-4) 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. Telecommunication Internship
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 16 credits. Telecommunication juniors and seniors; approval of department.

Internship in a telecommunication studio or in a government agency or business.

401. Station Operations and Programming
Fall, Spring. 4(4-0) Seniors, TC 310, TC 335.

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

415. Cable Communication
Winter. 4(4-0) Juniors.

History, technology, public policy, services, economics, management and social effects of broadband cable communication systems.

437. Television Program Development
Winter, Summer. 3(1-4) Senior nonmajors.

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

Descriptions - TELECOMMUNICATION

of Courses

- 451. Advanced Television Directing**
Fall, Spring. 3(0-6) TC 361, approval of department.
Assigned experiences in television directing of programs written and produced by students in TC 351.
- 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**
Spring. 4(1-6) TC 390 and approval of department.
Theory and practice in film production: script, scheduling, shooting, editing, sound. Elaboration and implementation of Cinema I concepts.
- 498. International Telecommunication**
Fall, Summer. 4(4-0) Seniors; Juniors with approval of department.
Alternative approaches to television, radio, cable, and satellite communication with examples from selected national and international systems. Telecommunication's role in national development. Conflict and cooperation in information distribution and propaganda.
- 499. Individual Projects**
Fall, Winter, Spring, Summer. 1 to 6 credits. Junior telecommunication majors and approval of department.
- 801. Trends and Issues in Telecommunication**
Spring, Summer. 4(4-0) Approval of department.
Salient issues and prevailing trends in telecommunication. Consideration of interdependence and relationships within and between telecommunication systems, services, and society.
- 810. Telecommunication Policy Analysis**
Winter. 4(4-0) TC 310, or approval of department.
Systematic interdisciplinary analysis of major public and private telecommunication policies applying tenets from law, political science, economics, communication, general social science and technology.
- 822. Art Instructional Media Laboratory II—Television**
Fall, Winter, Spring, Summer. 4(1-9) May reenroll 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.
- 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 administration.
- 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. Interdepartmental with the Department of Advertising.
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**
(990.) 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.
- 871. Global Broadcasting: International Systems**
(991.) Spring. 4(4-0) TC 498 or approval of department.
Propaganda and information services. International coordinating organizations such as ITV, UNESCO, Eurovision, and Interservice. Developments in satellite communication.
- 880. Public Broadcasting**
Winter. 4(4-0) TC 489 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.
- 890. Special Problems**
Fall, Winter, Spring, Summer. Variable credit. Approval of department.
- 899. Master's Thesis Research**
Fall, Winter, Spring, Summer. Variable credit. Approval of department.
- 910. Public Policy in Mass Media II**
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

THR

College of Arts and Letters

- 101. Theatre Appreciation: Foundations**
Fall, Winter, Spring, Summer. 3(3-0).
An overview of theatre arts as a recreational, cultural and social force in contemporary life; fundamentals of play production.
- 104. Introduction to Costuming**
Fall, Winter, Spring. 3(2-2)
Introductory study of theatrical costuming including theory, patterning, materials, construction and history of dress.
- 204. Sophomore Theatre Practicum**
Fall, Winter, Spring, Summer. 12(0-40) THR 104, THR 221 or approval of department.
Theatre apprenticeship served in the MSU production program.
- 211. Sophomore Acting Practicum I**
Fall. 4(0-10) THR 101, THR 103 or approval of department.
Intensive preparation of actor's physical and vocal instrument through exercises and improvisation and scene study.
- 212. Sophomore Acting Practicum II**
Winter. 4(0-10) THR 211 or approval of department.
Continuation of THR 211.