

TELECOMMUNICATION

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100. **The Information Society**
Fall, Spring, Summer. 3(3-0)

Technological and social trends in the information society. Social policy involving information technologies and information services. Examples from the telephone, computer, television, cable, radio and satellite systems.
QA: TC 210

200*. **History and Economics of Telecommunication**
Fall, Spring, Summer. 4(4-0)
P: MTH 110 or MTH 116; EC 201. R: Not open to freshmen.

Institutional, economic and content development of telecommunication including broadcasting, cable, new video technologies, and telephone and data transmission.
QP: EC 201 MTH 108 QA: TC 220

201*. **Introduction to Telecommunication Technology**
Fall, Spring, Summer. 4(4-0)
P: MTH 110 or MTH 116; CPS 100 or CPS 130 or CPS 131 or concurrently. R: Not open to freshmen.

Operational principles of audio, data and video telecommunication technologies.
QP: TC 210 TC 220 QA: TC 230

240*. **Telecommunication Media Arts**
Fall, Spring, Summer. 4(3-2)
R: Not open to freshmen.

Characteristics of image and sound media and their role in shaping the meaning of media messages. Application of aesthetic principles in the design of mediated communication.
QA: TC 301 TC 302

275. **Effects of Mass Communication**
Fall, Spring, Summer. 3(3-0)
Interdepartmental with the Department(s) of Communication.
R: Not open to freshmen.

Major social effects of mass media on audience behavior. Political communication. Media effects on children. Message strategies producing attitude change. Interrelationships between mass media and interpersonal communication.
QA: TC 300

310*. **Basic Telecommunication Policy**
Fall, Spring, Summer. 4(4-0)
P: TC 100, TC 200, TC 201, TC 240.

R: Only open to College of Communication Arts and Sciences and College of Engineering majors. Policy and plans in telecommunication systems and services in the United States and other nations.
QP: TC 210 TC 220TC 230 QA: TC 310

342*. **Basic Video Design and Production**
Fall, Spring, Summer. 4(2-4)
P: TC 240. R: Only open to Telecommunication majors. Approval of department; application required.

Conceptualization, design, planning, producing, directing, editing, and evaluation of video programs.
QP: TC 210 TC 220TC 230 QA: TC 302 TC 361

343*. **Basic Audio Production**
Fall, Spring, Summer. 4(2-4)
P: TC 201, TC 240. R: Open only to Telecommunication majors. Approval of department; application required.

Basic audio production techniques. In-depth audio and radio industry analysis. Media writing.
QP: TC 230 QA: TC 301 TC 350

345*. **Media Arts Content and Culture**
Spring. 3(3-0)

R: Not open to freshmen and sophomores.
Media content as cultural discourse. Cultural themes in content and structure of media entertainment, news, sports, religious and political programs and commercials.
QA: TC 395

352*. **Broadcast and Cable Programming and Audience Promotion**
Fall, Spring, Summer. 3(3-0)
P: TC 200, TC 240. R: Not open to freshmen.

Evaluation, selection and scheduling of cable and broadcast programming. Audience promotion strategies and techniques.
QP: TC 302 QA: TC 325

354*. **Telecommunication Marketing and Sales Promotion**
Spring. 3(3-0)
P: TC 200, MTA 300. R: Open only to Telecommunication majors.

Application of advertising and marketing concepts to broadcast stations, cable systems, program networks and telecommunications.
QA: TC 401

361*. **Telecommunication System and Service Policies**
Spring. 3(3-0)
P: TC 200, TC 201, TC 310; ACC 230.

R: Not open to freshmen.
Services, systems, and public policy related to telephone and telecommunication.
QP: TC 310 QA: TC 360

370. **History of Film and Documentary**
Fall, Spring. 4(2-4)
R: Not open to freshmen.

Analysis of fiction and non-fiction forms, emphasizing social background and cultural values. Screening of significant feature and documentary films.
QA: TC 280 TC 396

442*. **Advanced Video Design and Production**
Fall. 4(2-4)
P: TC 342, TC 343. R: Open only to Telecommunication majors. Approval of department; application required.

Advanced principles of studio and field production. Techniques of design, recording, editing and writing. Emphasis on electronic field production and editing.
QP: TC 301 TC 302TC 361 QA: TC 421 TC 351 TC 451

443*. **Audio Industry Design and Management**
Fall, Spring. 4(2-4)
P: TC 342, TC 343. R: Open only to Telecommunication majors. Approval of department; application required.

Advanced audio production specializing in multi-channel techniques. Industry focus on all aspects of the audio field.
QP: TC 301 TC 302 QA: TC 302

446*. **Hypermedia Design**
Fall. 4(3-2)
P: CPS 100 or CPS 130 or CPS 131, TC 342. R: Open only to College of Communication Arts and Sciences majors.

Current and future hypermedia capabilities. Applications and design of systems.
QP: TC 302 CPS 115 QA: TC 440

452*. **Telecommunication and Information Industries**
Spring, Summer. 4(4-0)

P: TC 100, TC 200, TC 201. R: Open only to Telecommunication majors.
Telecommunication and information industry issues including economic dynamics, market structures, business practices, and interfaces with other industries.
QP: TC 220 QA: TC 452

456*. **Multichannel Television**
Fall. 4(4-0)

P: TC 352, TC 354. R: Open only to Telecommunication seniors and graduate students.
Television in a multichannel environment; developments in broadcasting, cable, satellite master antennae TV, direct broadcast satellite, multipoint distribution systems, and home video applications.
QP: TC 325 TC 401 QA: TC 415

458*. **Telecommunication Management**
Fall, Spring, Summer. 4(4-0)
P: TC 354, MGT 302. R: Open only to Telecommunication seniors and graduate students.

Theoretical and practical aspects of telecommunication management including case studies.
QP: TC 220 TC 310TC 335 QA: TC 401

462A*. **Telecommunication Applications: Organizational Impacts**
Fall of even-numbered years. 3(2-2)
P: TC 361. R: Not open to freshmen and sophomores. Approval of department; application required.

Uses and effects of telecommunication and information technology in organizational settings.
QP: TC 230 TC 360

462B*. **Telecommunication Applications: Teleconferencing**
Spring of odd-numbered years. 3(2-2)
P: TC 240. R: Not open to freshmen and sophomores. Approval of department; application required.

Methods of teleconferencing including assessing requirements for teleconferencing, system design and implementation, and system evaluation.
QP: TC 230 TC 360

462C*. **Telecommunication Applications: Electronic Information Services**
Fall. 3(2-2)
P: TC 361. R: Open only to College of Communication Arts and Sciences majors. Approval of department; application required.

Advanced electronic information services applications including electronic bulletin board, audio text and video text services, and voice and electronic mail.
QP: TC 360 QA: TC 440

463*. **Digital Telecommunication Networks**
Fall. 3(3-0)
P: TC 361. C: TC 464 R: Not open to freshmen and sophomores. Approval of department.

Operation and management of common carrier, digital telecommunications systems. Digital telephony business planning and financial analysis for public telecommunication networks.
QP: TC 360 QA: TC 470 TC 430

464*. **Telecommunications Instrumentation Laboratory**
Fall. 2(0-4) Interdepartmental with the Department(s) of Electrical Engineering.
P: Physics 231 and 232 C: TC 463 R: Juniors and above Communication Arts and Sciences, Engineering

Telecommunications test equipment and measurement fundamentals. Experimental verification of topics covered in TC 461.
QA: EE 345 TC 470

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465*. **Telecommunication Network Management**
 Spring. 4(3-2)
 P: TC 463, TC 464, MGT 302. R: Open only to Telecommunication and College of Engineering majors.
 Techniques for analyzing organizational requirements for voice, data and image communication systems.
 QP: TC 470 QA: TC 480 TC 430

476*. **Telecommunication Research Methods**
 Spring. 4(4-0)
 R: Open only to College of Communication Arts and Sciences majors.
 Telecommunication research methods including content analysis, sampling, experiments, surveys, statistics, ratings, polling and qualitative research.
 QA: TC 335

477*. **International Telecommunication**
 Fall, Spring, Summer. 4(4-0)
 R: Open only to Telecommunication majors.
 Comparison of national approaches to use of television, radio, cable, telephone, data and satellite communication. Development, international interaction, data flows, propaganda, impact on cultures.
 QA: TC 498

490*. **Independent Study**
 Fall, Spring, Summer. 1 to 7 credits.
 May reenroll for a maximum of 7 credits.
 P: TC 310. R: Open only to Telecommunication majors. Approval of department; application required.
 Directed study under faculty supervision.
 QP: TC 230 TC 301TC 302TC 302 QA: TC 499

491*. **Special Topics in Telecommunication**
 Fall, Spring. 1 to 4 credits. May reenroll for a maximum of 8 credits.
 R: Open only to College of Communication Arts and Sciences majors. Approval of department.
 Contemporary issues in telecommunication.

493*. **Telecommunication Internship**
 Fall, Spring, Summer. 1 to 7 credits.
 May reenroll for a maximum of 7 credits.
 R: Open only to Telecommunication majors. Approval of department; application required.
 Supervised professional experience in a telecommunication institution, business or facility.

801*. **Telecommunication Technologies**
 Spring, Summer. 3(3-0)
 R: graduate students
 Examination of new trends in the development of mass media and information technologies and trends in their applications.
 QA: TC 801

810*. **Telecommunication Policy Analysis**
 Spring, Summer. 3(3-0)
 R: graduate students
 Systematic analysis of major public and private telecommunication policies applying tenets from law, political science, economics, communication and general social science.
 QA: TC 810

821*. **Mass Communication Theory and Research**
 Fall. 3(3-0)
 R: graduate students
 Current telecommunication/mass communication research and theories, including exposure patterns, diffusion of news and influences, mass media.
 QA: TC 821

824*. **Media Campaigns and Formative Evaluation**
 Fall of even-numbered years. 3(3-0)
 R: graduate students
 Examines impact of public communication campaigns aimed at educating and persuading mass audiences; strategies for message development; techniques for audience analysis and evaluation.
 QA: TC 875

840*. **Telecommunication Media Arts Theory**
 Fall. 3(3-0)
 R: graduate students
 Application of theoretical perspectives which inform mediated expression and the processes of creating, analyzing, and disseminating knowledge with telecommunication media.
 QA: TC 830

842*. **Design and Development of Media Projects**
 Spring. 4(3-2)
 P: TC 442 or permission of instructor;
 TC 840 R: seniors and graduate students telecommunication
 Presents overview of production industry and technology, message design and development, project management and production techniques, including professional level production projects.
 QP: TC 451 TC 830

851*. **Telecommunication Financial Analysis**
 Fall. 3(3-0)
 P: TC 458 R: graduate students telecommunication
 Financial analysis of telecommunication properties and systems including broadcast, common carrier and cable capitalization, pricing, acquisition criteria and forecasting techniques.
 QP: TC 401 QA: TC 851

852*. **Telecommunication Industries**
 Spring, Summer. 3(3-0)
 R: graduate students
 Economic analysis of telecommunication and information industries with emphasis on market structure, conduct, performance, content diversity, new technologies, recent regulatory policies, antitrust.
 QA: TC 852

856*. **Multichannel Telecommunication Management**
 Spring. 3(3-0)
 R: graduate students
 Management and Promotion problems in broadcast television, multichannel television and programming.
 QA: TC 815 TC 850

860*. **Theory and Research in Information Technologies and Services**
 Fall. 3(3-0)
 R: graduate students
 Theoretical approaches from a social science perspective to the study of information technologies and sciences, including work from such diverse disciplines as economics, sociology, geography, communication and organization studies.
 QA: TC 860

872*. **Telecommunication and National Development**
 Fall. 3(3-0)
 R: graduate students
 Role of electronic mass media and telecommunication in facilitating national development in countries of Asia, Africa, Latin America, the Caribbean and the Middle East. Examples from agriculture, health, family planning, nutrition, education sectors.
 QA: TC 869

876*. **Research Methods in Telecommunication**
 Fall. 3(3-0)
 P: undergraduate statistics course R: graduate students
 Application of research methods in the telecommunication field.
 QP: TC 335 QA: TC 831

877*. **Comparative and International Telecommunication**
 Spring. 3(3-0)
 R: graduate students
 Comparison of various country approaches to broadcasting, cable, satellite and telephone systems. Policy, economic, institutional and content issues. Interactions and media flows between countries; international institutions.
 QA: TC 870 TC 871

890*. **Independent Study**
 Fall, Spring, Summer. 1 to 4 credits.
 May reenroll for a maximum of 4 credits.
 R: graduate students telecommunication approval of department required
 Directed study under supervision of TC faculty.
 QA: TC 890

891*. **Special Topics in Telecommunication**
 Fall, Spring. 3(3-0)
 R: graduate students communication arts and sciences
 Contemporary issues in telecommunication. Topics vary.

899*. **Master's Thesis Research**
 Fall, Spring, Summer. 1 to 8 credits.
 May reenroll for a maximum of 8 credits.
 R: telecommunication approval of department
 Master's thesis research.

960*. **Media and Technology**
 Spring. 3(3-0) Interdepartmental with the Department(s) of Advertising, Journalism.
 R: advanced graduate students (class 7) mass media Ph.D. (98) and Communication (94)
 Theoretical frameworks concerning media/communication processes and how they are affected by and affect technology. Social, organizational, critical, historical, and economic perspectives.

965*. **Media Economics**
 Spring. 3(3-0) Interdepartmental with the Department(s) of Advertising, Journalism.
 R: advanced graduate students (class 7) mass media Ph.D. (98)
 Economic theory and analysis relevant to the mass media. Economic structure and performance of various mass media industries and of advertising. Conditions of competition among media and within related industries.
 QA: ADV 965

THEATRE

THR

100. **Theatre and Society**
 Fall, Spring, Summer. 3(2-2)

Theatre as social comment. Translation of social vision into dramatic art. Demonstration and application of theatrical conventions, play genres, and production techniques.
 QA: THR 101