TELECOMMUNICATION TC

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.
Introduction to the 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

210*. 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(3-3)
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)
Introduction to 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)
TC 100, TC 200, TC 201, TC 240. R: Only open to College of Communications 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 240. R: Only open 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

348*. Media Arts Content and Culture
Fall, 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 385

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.
QP: TC 401

356*. 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 320

370. History of Film and Documentary
Fall, Spring. 4(4-4)
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.
Techniques of design, recording, editing and writing. Emphasis on electronic field production and editing.
QP: TC 301 TC 320TC 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 Communications 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
Fall, Spring, Summer. 4(4-4)
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

458*. Multichannel Television
Fall, Spring, Summer. 4(4-4)
P: TC 354, MGT 362. R: Open only to Telecommunication seniors and graduate students.
Television in a multichannel environment; development of broadcasting, cable, satellite master antenna TV, direct broadcast satellite, multipoint distribution systems, and home video applications.
QP: TC 325 TC 401 QA: TC 418

461*. Telecommunication Management
Fall, Spring, Summer. 4(4-4)
P: TC 354, MGT 362. R: Open only to Telecommunication seniors and graduate students.
Theoretical and practical aspects of telecommunication management including case studies.
QP: TC 220 TC 310 TC 335 QA: TC 401

463A*. Telecommunication Applications: Organizational Impacts
Fall of even-numbered years. 3(2-2)
P: TC 351. R: Not open to freshmen and sophomores.
Approval of department; application required.
Analysis and effects of telecommunication and information technology in organizational settings.
QP: TC 230 TC 360

463B*. 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

463C* Telecommunication Applications: Electronic Information Services
Fall. 3(2-2)
P: TC 361. R: Open only to College of Communications Arts and Sciences majors.
Approval of department; application required.
Advanced electronic information service applications including electronic bulletin board, audio text and video text services, and voice and electronic mail.
QP: TC 360 QA: TC 440

463D*. Digital Telecommunication Networks
Fall. 3(3-0)
P: TC 361. C. TC 494 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 450

464*. Telecommunications Instrumentation Laboratory
Fall. 2(1-4)
Interdepartmental with the Department(s) of Electrical Engineering.
P: Physics 221 and 222 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 EE 346

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.

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**TELECOMMUNICATION**

465* Telecommunication Network Management
Spring. 4(0-2) 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, and satellite communication. Development, international interaction, data flows, propaganda, impact on cultures.
QA: TC 499

490* Independent Study
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.
Directed study under faculty supervision.
QP: TC 230 TC 301 TC 302 TC 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.

492* 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.

501* Telecommunication Technologies
Spring. 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

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

521* 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

524* Media Campaigns and Formative Evaluation
Fall of even-numbered years. 3(3-0) R: graduate students
Examine 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

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

542* Design and Development of Media Projects
Spring. 4(3-2)
R: TC 451 or permission of instructor; TC 840 R: seniors and graduate students telecommunication
Presentation 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

551* Telecommunication Financial Analysis
Fall. 3(3-0)
QP: TC 480 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 411 QA: TC 851

552* 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

564* Multichannel Telecommunication Management
Spring. 4(4-0) R: graduate students
Management and Promotion problems in broadcast television, multichannel television and programming.
QA: TC 815 TC 850

566* 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

576* 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

577* 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. International and media flows between countries.
QA: TC 870 TC 871

590* 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

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

599* 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

191* 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

Courses are subject to revision and final approval.