913. Seminar in Research on Teaching
(ED 913, 924) Spring, 3(3-0) Approval of instructor. Interdepartmental with the Department of Counseling, Educational Psychology and Special Education. Critical survey of five approaches to research on teaching. Students develop a framework for organizing the literature, methods, and issues in the field.

915. Readings and Research in Teacher Education and Professional Development
(ED 970) Spring, 3(3-0) Approval of department. Literature on research on practice in teacher education field experiences. Issues, problems and skills needed by educational leaders in preserving and inservice teacher education.

918. Teacher Assessment and Development
(ED 977) Fall, 3(3-0) Completion of 27 credits at graduate level. Concepts of teacher assessment, techniques and instruments for analysis of teaching, current assessment practices, and strategies for teacher development based on needs.

921. Fieldwork Research in Educational Settings I
(ED 978A) Fall, 3(3-0) Approval of instructor. Substantive and methodological issues in planning and conducting fieldwork research in educational settings. Knowledge and skills necessary to evaluate quality of fieldwork research. Critical review of examples of research reports.

922. Fieldwork Research in Educational Settings II
(ED 978B) Winter, 4(3-3) TE 921, approval of instructor. Supervised fieldwork research in educational settings. Techniques of data collection and analysis. Research question formulation, entry, evidence, and ethics.

923. Fieldwork Research in Educational Settings III
(ED 976C) Spring, 3(3-0) TE 922, approval of instructor. Supervised analysis and reporting of fieldwork research data. Literature review, model construction, analysis of field notes and other data. Preparing narrative reports addressed to scientific audiences and to audiences of practitioners.

929. Conceptual Foundations of Educational Research
(Fall, 3(3-0) Approval of instructor. Interdepartmental with the Department of Counseling, Educational Psychology and Special Education. Epistemology and ideology in educational research. Analysis of concepts of method, causation, objectivity and subjectivity in historical perspective.

939. Policy and Legal Issues in Testing
(Winter, 3(3-0) CEP 401. Interdepartmental with the Department of Counseling, Educational Psychology and Special Education. Public policy and legal issues concerning the use of standardized testing to make critical decisions about individuals in American public education.

948. Research in Vocational Education
(ED 941, EAC 948) Winter, 4(4-0) CEP 803, CEP 984 or approval of instructor. Research designs appropriate for vocational education. Selection of appropriate statistics, analysis of data using computers, and interpretation of findings.

970. Proseminar: The Contexts of the Teaching Profession
(Fall, 3(0-0) TE doctoral students or approval of instructor. Analysis of the multiple contexts (social, institutional, policy) in which teaching takes place. Themes include: societal expectations for schools, work environment of teaching and effects of public policy on teaching.

971. Proseminar: Teacher Education Curriculum
(Winter, 3(3-0) TE 870. Analysis of the content, contexts, and development of certification and professional development teacher education programs. Topics include current formal offerings, historical development of programs, and factors influencing future development.

972. Proseminar: The Teacher as Learner
(Spring, 3(3-0) TE 971. Analysis of developmental, sociological, and technological research of teachers' learning and their implications for teacher education policy and practice.

982. Seminars in Teacher Education
(Fall, Winter, Spring, Summer, 1 to 9 credits. May reenroll for a maximum of 15 credits. Approval of department. Seminars in the various fields of emphasis in teacher education.

983. Readings and Independent Study in Teacher Education
(Fall, Winter, Spring, Summer, 1 to 6 credits. May reenroll for a maximum of 15 credits. Approval of department. Study on an individual or group basis in teacher education.

984. Laboratory and Field Experience in Teacher Education
(Fall, Winter, Spring, Summer, 1 to 9 credits. May reenroll for a maximum of 15 credits. Approval of department. Supervised graduate practicums, observations, internships, externships in various areas of teacher education.

999. Doctoral Dissertation Research
(Fall, Winter, Spring, Summer. Variable credit. Approval of department.

TELECOMMUNICATION

College of Communication Arts and Sciences

210. Telecommunication Process and Effects
(Fall, Winter, Spring, Summer, 3(3-0) Sophonors or approval of department. Human communication processes and behavior as modified by telecommunication. Functions, audiences, and implications of electronic media on society.

220. History and Economics of Telecommunication
(Fall, Winter, Spring, Summer, 4(3-2) Sophonors, EC 201. Students must either score at a level on the MSU Algebra Placement Exam to qualify for MTH 108 or successfully complete MTH 085-1043. Institutional and cultural development and underlying economic principles of the telecommunication field, including broadcast programs.

230. Basic Telecommunication Technology
(Fall, Winter, Spring, Summer, 4(4-0) Sophonors, TC 210, TC 220. 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.

290. History of the Motion Picture
(Fall, Spring, 4(2-4) Sophonors. 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(2-4) TC 230, majors or approval of department. Basic orientation to audio and radio studios, with laboratory experiences in production, writing and performance.

302. Basic Video Production
(Fall, Winter, Spring, 4(2-4) TC 230, majors or approval of department. 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 230. Essential U.S. public communication policy is treated through rigorous methodological analysis of case and statutory law, public documents and related primary materials.

325. Telecommunication Program and Production Management
(Winter, 4(4-0) TC 302 or concurrently. Sources of program material, economies of program market, program regulation, ascertainment of audience needs and interests, formative and summative research, programming strategy, showmanship, management of production facilities and personnel.

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 Audio Production
(Fall, Spring, 4(2-4) TC 301 and approval of department. Advanced audio production techniques including operation of signal processing equipment and multi-track recorders. Lecture and studio assignments culminate in multi-track studio mixdowns.
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 431.

361. Television Directing  
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.

396. The Documentary Film  
Spring. 4(2-4) TC 380. History of documentary film and analysis of documentary types, providing a solid basis for the understanding and evaluation of the notification film. Screening of significant films.

399. Telecommunication Internship  
Fall, Winter, Spring, Summer. 1 to 8 credits. May enroll for a maximum of 10 credits. Telecommunication juniors and seniors; approval of department. Internship in a telecommunication studio or in a government agency or business.

401. Telecommunication Management  
Fall, Spring. 4(4-0) Seniors. TC 316, TC 335. Sales, ratings, station organization, departmental functions, promotion, program formats, station-community relations, ascertainment of community needs, license renewal, stations-network relations.

410. Property and Rights in Telecommunication  
Spring. 4(4-0) TC 310. Copyrights, agreements, intellectual, artistic, performance, program and related rights and properties used in telecommunication, communication and related information storage and processing.

415. Cable Communication  
Fall, Winter, Spring. 4(4-0) Juniors. History, technology, public policy, services, economics, management and social effects of broadband cable communication systems.

430. Telecommunication Computer Applications  
Fall, Winter. 4(4-0) TC 230, CPS 115 or CPS 120 or approval of department. Telecommunication applications for computer hardware and software. Includes consideration of human factors, policy and application in consumer, business and research sectors of telecommunications industry.

437. Television Program Development  
Fall, Winter, Spring. 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.

440. Videotex Systems and Applications  
Spring. 4(4-0) TC 430 or approval of department. Technology assessment of one-way and interactive videotex systems and applications, system technical design, hardware, software, information providers and users. Policy, economic and social impacts considered.

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. Telecommunication in Education  
Fall, Winter. 4(4-0) Juniors. Uses of telecommunication media for instructional purposes. Usage by educational and other public institutions. Corporate and industrial applications for training and education. Applications of interactive telecommunication in education.

498. International Telecommunication  
Fall, Summer. 4(4-0) Juniors. 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.

501. Trends and Issues in Telecommunication  
Spring. 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.

510. Telecommunication Policy Analysis  
Winter, Spring. 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. 4(1-5) May enroll for a maximum of 8 credits. Approval of department. Interdepartmental with and administered by Studio 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. 3(3-0) Approval of department. Interdepartmental with and administered by the Department of Counseling, Educational Psychology and Special 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 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. Telecommunication Sales Management  
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. Telecommunication Financial Management  
Spring. 4(4-0) TC 832. Financial analysis of broadcast stations and cable systems, acquisition criteria, recapitalization, and evaluation of system performance. Role of finance and managerial economics in pricing, profit maximization. Application of forecasting techniques.

852. Telecommunication Industries  
Spring. 4(4-0) EC 201 or approval of department. Economic examination of telecommunication industries with emphasis on market structure, conduct, performance, program diversity, new technologies, recent regulatory policies, antitrust, and common carrier.

870. Global Broadcasting: Foreign Domestic Systems  
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.

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.
223. Introduction to Acting
Fall, Winter, Spring, Summer. 4(1-6)
Training beginning performers to utilize their
talents to develop themselves as artistic
instruments.

300A. Rehearsal
Fall, Winter, Spring, Summer. 1(0-3)
May reenroll for a maximum of 7 credits. Approval
of department.
Rehearsal in department's major productions.

300B. Production
Fall, Winter, Spring, Summer. 1(0-3)
May reenroll for a maximum of 7 credits. Approval
of department.
Construction work or running crew for depart-
ment's major productions.

301. Beginning Directing
Fall, Winter. 3(0-6) THR 320, THR 321 or approval of department.
Fundamentals of directing emphasizing theory and practice of basic concepts.

302. Intermediate Directing
Winter, Spring. 3(1-4) THR 301 or approval of department.
Emphasis on practical application and expan-
sion of directing techniques.

303. Advanced Directing
Spring. 4(0-8) THR 302 or approval of department.
Preparation and performance of a one-act play
or short work in selected space with limited re-
sources.

304. Design Media and Techniques
Spring. 3(2-2) THR 320, THR 321 or approval of department.
Basic rendering and design techniques relative to
effective costume and scenic design.

320. Theatre Practicum
Fall. Spring. 5(0-15) THR 101, THR 104, THR 221, THR 223 or approval of depart-
ment. THR 321 concurrently.
Exploration of theatre as a cooperative venture
beginning with ideas, expanding through design
and rehearsal, culminating in production. Ap-
prenticeship experience stressed.

321. Theatre Production Design
Fall, Spring. 4(0-12) THR 101, THR 104, THR 221, THR 223 or approval of depart-
ment. THR 320 concurrently.
Study and practice in drafting and the use of graphs for the stage, plus practical shop work on
departmental productions.

323. Intermediate Acting
Fall, Winter, Spring. Summer. 4(1-6) THR 223, for nonmajors only.
Continuation of THR 223 with emphasis on vo-
cal interpretation and characterization.

335. Film and Drama, a Comparison
Winter, Spring. 3(3-2) Juniors.
A comparison of dramatic and cinematic forms with primary emphasis on the unique attributes of
each medium that create differing impacts and responses on the reader/viewer.