862 Information Networks and Electronic Commerce
Spring, 3(2-2) P:M: (TC 840 or TC 861) RB: Academic or professional background in telecommunication field. Design and management of electronic commerce strategies and the telecommunications infrastruc- ture. Impact of electronic commerce on organiza- tions and society.

863 Electronic Information and Entertainment Media Management
Spring of even years. 3(3-0) R: Open only to graduate students in the Department of Telecommunication. SA: TC 856 Management, programming, advertising, and pro- motion issues in broadcast television, multichannel television, interactive television, and Internet and broadband data service programming.

872 Telecommunication and National Development
Fall of odd years. 3(3-0)
Role of electronic mass media and telecommunica- tion in facilitating national development in Asia, Africa, Latin America, the Caribbean and the Middle East. Examples from agriculture, health, family planning, nutrition, and education.

877 Comparative and International Telecommunication
Fall of even years. 3(3-0)
Comparison of various national approaches to broadcasting, cable, satellite and telephone sys- tems. Policy, economic, institutional and content issues. Interactions and media flows among coun- tries. International regulatory bodies.

890 Independent Study
Fall, Spring. Summer. 1 to 6 credits. A stu- dent may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in Telecommunication. Approval of department; application re- quired.
Individualized study under faculty supervision.

891 Special Topics in Telecommunication
Fall, Spring. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to graduate students in the College of Com- munication Arts and Sciences or approval of department. Contemporary issues. Topics vary.

893 Telecommunication Internship (N)
Fall, Spring. Summer. 1 to 6 credits. A stu- dent may earn a maximum of 6 credits in all enrollments for this course. Internships in information industries.

899 Master's Thesis Research
Fall, Spring. Summer. 1 to 6 credits. A stu- dent may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in the Department of Telecommunication, Information Studies and Media. Master's thesis research.

912 Information Technology Transactional Perspectives
Spring of even years. 3(3-0) Interdepartmental with Information Technology Manage- ment. Administered by The Eli Broad College of Business. RB: Graduate level microeconomics course R: Open only to doc- toral students. Multiple perspectives on relationships between organizations and information technology. Informa- tion processing, communications and management strategy approaches. Economic perspectives.

916 Qualitative Research Methods
Spring. 3(3-0) Interdepartmental with Jour- nalism; Advertising. Administered by School of Journalism. R: Open only to Ph.D. stu- dents in Mass Media and Communication. SA: ADV 916, JRN 916 Qualitative research in mass and specialized com- munication systems. Topics include documentary, bibliographic, case study and participant observation methods.

921 Media Theory
Fall. 3(3-0) Interdepartmental with Advertis- ing; Journalism. Administered by Depart- ment of Advertising. R: Open only to Ph.D. students in Mass Media and Communica- tion. Process and effects of mediated communication. Audiences, socialization, and persuasion. Macro- societal, and intercultural perspectives. Theory construction.

930 Law and Public Policy of the Media
Fall. 3(3-0) Interdepartmental with Journal- ism; Advertising, Administered by School of Journalism. R: Open only to Ph.D. students in Mass Media. SA: ADV 930, JRN 930 Philosophical, legal, political, and statutory principles underlying law and public policy applied to media. Selected issues involving constitutional law, com- mon law, statutes, and administrative policy.

960 Media and Technology
Spring. 3(3-0) Interdepartmental with Ad- vertising; Journalism. R: Open only to Ph.D. students in Communication Arts and Sci- ences-Mass Media or Communication or approval of department. Theoretical frameworks concerning media and communication processes, and their interactions with technology. Social, organizational, critical, and economic perspectives.

965 Media Economics
Spring. 3(3-0) Interdepartmental with Ad- vertising; Journalism. R: Open only to Ph.D. students in Communication Arts and Sci- ences-Mass Media or Communication or approval of department. Economic theory and analysis relevant to the mass media. Economic structure and performance of mass media and advertising industries. Competition among media and within related industries.

975 Quantitative Research Design
Fall. 3(3-0) Interdepartmental with Advertis- ing; Journalism. Administered by Depart- ment of Advertising. RB: One graduate-level research design or statistics course. R: Open only to Ph.D. students in Mass Media. Survey, experimental and content-analytic tech- niques applied to the study of media. Academic and applied research methods. Univariate and multivari- ate techniques.
Theatre—THR

312 Design Media and Techniques
Spring of even years. 3(2-2) RB: (THR 211 or THR 212)
Rendering and design techniques for effective costume and scenic design.

341 Beginning Play Directing
Fall, Spring. 3(0-6) P: (THR 101 and THR 311 and THR 110)
Intensive practicum in concepts and techniques of stage directing. Stage design, movement, tableau, and analysis.

350 Plays as Film
Fall of even years. 3(2-2)
Comparison of plays and musicals that are also films, with emphasis on structural changes from the play to film.

401 Contemporary Acting II
Spring. 3(0-6) RB: (THR 301 Or THR 302) R: Open only to students in the Department of Theatre.
Intensive practicum including scene study, rehearsal, and performance of works by twentieth-century American playwrights such as Williams, Miller, O'Neill, Albee, and Odets.

402 Voice Studio
Fall, Spring. 2(0-4) A student may earn a maximum of 4 credits in all enrollments for this course. RB: (THR 101) R: Open only to juniors or seniors in the Department of Theatre.
Intensive practicum in advanced techniques for developing physical awareness in voice as an instrument of expression.

409 Auditioning
Fall. 2(0-4) RB: (THR 301 Or THR 302) R: Open only to seniors in the Department of Theatre.
Theory and practice of techniques used for production casting in the theatre and elsewhere. Monologues, cold readings, and improvisations. Interview and resume preparation.

410 Oral Interpretation
Spring. 3(2-2) RB: (THR 101)
Selecting, interpreting, and performing dramatic and non-dramatic literature for an audience. Reading for sense, instant characterization through vocal expressiveness, and audience control.

411 Stage Lighting Design
Fall of odd years. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (THR 211) R: Not open to freshmen.
Theory and practice in lighting design and equipment. Application of light to stage production through play analysis, color theory, and the development of lighting plot.

412 Stage Costume Design
Spring of odd years. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (THR 212) R: Not open to freshmen.
Creating stage dress through script, color, and fabric analysis. Practical application through rendering draping and fabrication.

413 Make-up
Spring. 3(2-2) RB: (THR 212) R: Not open to freshmen.
Theory and application of two-dimensional and three-dimensional make-up for the stage.

414 Scene Design
Fall of even years. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (THR 211) R: Not open to freshmen.
Creating stage setting through script, color, and architectural analysis. Practical application through rendering and technical drawing.

415 Scene Painting
Fall of even years. 3(0-6) A student may earn a maximum of 6 credits in all enrollments for this course. RB: (THR 211) R: Not open to freshmen.
Techniques in scene painting for drops, scenery units and floor treatment for a variety of theatrical spaces.

421 Creative Dramatics
Fall, Spring. 3(2-2) R: Not open to freshmen or sophomores.
Techniques for developing playmaking, story dramatization and improvisational skills in young people. Emphasis on school, camp and recreational use.

422 Children's Theatre
Spring of odd years. 3(2-2) R: Not open to freshmen or sophomores.
Development and application of skills for producing traditional or improvised performances for children. Projects may originate with play script and culminate in audience assessment.

431 History of Theatre to 1850 (W)
Fall of even years. 3(3-0) P: Completion of Tier I writing requirement. RB: (IAH 201) R: Not open to freshmen or sophomores.
Theory and practice from mythic and cultic origins to the beginning of stage realism. Emphasis on theatre as an expression of its social and cultural matrix.

432 History of Theatre since 1850
Spring of odd years. 3(3-0) RB: (IAH 201) R: Not open to freshmen or sophomores.
Crisis and change in theatre architecture and dramatic forms. Domination of commercial theatre, the rise of educational theatre, and the impact of high technology.

441 Advanced Play Directing
Spring. 3(0-6) P: (THR 341) R: Open only to juniors or seniors in the Department of Theatre.
Advanced directing skills, theories and techniques applied to the non-realistic play. Works selected from Shakespeare, the musical theatre, and other non-realistic forms used as practicum.

450 Movement Studio
Fall, Spring. 2(0-4) A student may earn a maximum of 4 credits in all enrollments for this course. RB: Open only to students in the Department of Theatre or Dance Specialization.
Intensive practicum in advanced techniques for developing the physical awareness and movement range of the actor.

451 Dance Studio: Classical Forms
Fall. 3(0-6) A student may earn a maximum of 9 credits in all enrollments for this course. RB: Open only to students in the Department of Theatre or Dance Specialization.
Intensive practicum in theatre dance forms with an emphasis on performance. Selected dance idioms and specialized styles that enhance the development of the dancer as a performing artist.

452 Dance Studio: Theatrical Forms
Spring. 3(0-6) A student may earn a maximum of 9 credits in all enrollments for this course. RB: Open only to students in the Department of Theatre or Dance Specialization.
Intensive practicum emphasizing forms of musical theatre dance, coordinated with the department's production program.

453 Labanotation
Fall of odd years. 3(2-2) R: Open only to students in the Department of Theatre or Dance Specialization.
Theory and practice of labanotation with emphasis on notating movement, reading notated scores, and analyzing movement theory.

454 Choreography and Dance Production
Spring of even years. 3(2-2) R: Open only to students in the Department of Theatre or Dance Specialization.

455 History of Dance to 1900
Fall of even years. 3(3-0) R: Not open to freshmen or sophomores.
Overview and anthropological perspective on selected ethnic forms of dance. Emphasis on dance idioms as cultural expressions.

456 History of Dance since 1900
Spring of odd years. 3(3-0) R: Not open to freshmen or sophomores.
Overview and anthropological perspective on dance. Modern dance artists and theorists. Contributions of theatrical dance forms.

490 Independent Study
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

492 Senior Seminar
Fall. 2(2-0) R: Open only to seniors in the Department of Theatre. Approval of department.
Contemporary theatre, dance, and performance theory and practice.

494 Performance Tour
Fall, Spring. 3(0-6) A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department; open only to cast members of touring production.
Rehearsal for and participation in the various departmental touring productions.

800 Theatre Research Methodology
Fall. 3(3-0) R: Open only to graduate students in Theatre.
Research techniques appropriate to theatre. Library resources.

801 Practicum in Theatre Arts: Acting
Fall, Spring. 3(0-8) A student may earn a maximum of 18 credits in all enrollments for this course. R: Open only to graduate students in Theatre.
Acting skills and techniques, including improvisation and Stanislavskian techniques.
### UP—Urban Planning

#### Department of Geography
College of Social Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP 201</td>
<td>The Role of Planning in Urban and Regional Development</td>
<td>Fall. Spring. 4(4-0) Contemporary urban issues, historical contexts, and the role of planning in the solutions of the problems faced by cities and their surrounding regions.</td>
</tr>
<tr>
<td>UP 314</td>
<td>Methods for Investigation of Urban Systems</td>
<td>Spring. 3(3-0) R: Open only to graduate students in Theatre.</td>
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<tr>
<td>UP 343</td>
<td>Planning Theory: Ethics and Politics (W)</td>
<td>Spring. 4(4-0) R: Open only to sophomores or juniors or seniors in Urban and Regional Planning. SA: UP 231, UP 233, UP 334Expressing concepts in visual terms for solutions to physical planning projects: graphic techniques and reproduction. Using the design process for solving land use problems: inventory, analysis, synthesis, community input and strategies for implementation.</td>
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<tr>
<td>UP 353</td>
<td>Planning Law (W)</td>
<td>Fall. 4(4-0) R: Open only to sophomores or juniors in the College of Social Science. SA: UP 344Political impact of community decision-making on planning. Ethics and values of professional practice. Gender, equity, and diversity issues within this context will be explored.</td>
</tr>
<tr>
<td>UP 365</td>
<td>Land Use Planning</td>
<td>Spring. 3(3-0) R: Open only to seniors in Urban and Regional Planning or Interdisciplinary Studies in Social Science majors. SA: UP 465Comprehensive planning, neighbor- hood/sector planning, practical tools for land regulation and environmentally sensitive development.</td>
</tr>
<tr>
<td>UP 380</td>
<td>Special Topics in Urban Planning</td>
<td>Fall. Spring. 2 to 4 credits. Principles and techniques of land use planning, including role of social, economic and political systems. Comprehensive planning, neighborhood/sector planning, practical tools for land regulation and environmentally sensitive development.</td>
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#### URBAN PLANNING

### UP

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<th>College of Social Science</th>
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<tbody>
<tr>
<td>802</td>
<td>Stage Voice</td>
<td>Fall. 2(0-4) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in Theatre. Principles and exercises for developing the speaking voice. Application to selected dramatic texts.</td>
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<tr>
<td>803</td>
<td>Acting Theory</td>
<td>Spring. 3(0-3) R: Open only to graduate students in Theatre. Theories, processes, techniques, and styles of acting set forth in the writings of prominent performers, teachers and critics.</td>
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<tr>
<td>809</td>
<td>Stage Combat</td>
<td>Spring. 2(1-2) P.M. (THR 450) Safe and effective methods of depicting violence for stage and film. Hand to hand combat such as kicks, punches, and falls. Weapon work with rapier, dagger, broadsword, quarterstaff, foil, axe and shield.</td>
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<tr>
<td>811</td>
<td>Problems in Theatre Design</td>
<td>Spring. 3(2-2) A student may earn a maximum of 15 credits in all enrollments for this course. R: Open only to graduate students in Theatre. Approaches to design problems in costumes, scenery, lighting, architecture, properties, or sound.</td>
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<tr>
<td>812</td>
<td>Modern and Contemporary Theatrical Design</td>
<td>Fall of odd years. 3(3-0) R: Open only to graduate students in Theatre. Scenic design concepts from Apella and Craig to the present.</td>
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<tr>
<td>813</td>
<td>Period Resources for Directors and Designers</td>
<td>Fall of even years. 3(3-0) R: Open only to graduate students in Theatre. Methodology for researching historical customs and artifacts that directors and designers adapt for use in sets, props, costumes, and directing.</td>
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<tr>
<td>814</td>
<td>Digital Design Media for Theatre</td>
<td>Spring. 3(2-2) Targeted exploration of common software tools for theatrical production designers in costumes, scenery and lighting.</td>
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<td>831</td>
<td>Studies in Theatre History</td>
<td>Fall of odd years. Spring of odd years. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to graduate students in Theatre. Selected periods and genres of world theatre history. Theatre as cultural expression and as performance art. Topics vary.</td>
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<tr>
<td>832</td>
<td>Studies in Comparative Theatre and Drama</td>
<td>Fall. Spring. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. Interdepartmental with English. SA: ENG 832Comparative study of selected playwrights, developments, movements, and trends in world drama from their beginnings to the present.</td>
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<tr>
<td>833</td>
<td>Contemporary Issues of Theatrical Theory and Criticism</td>
<td>Fall. 3(3-0) R: Open only to graduate students in Theatre. Critical and theoretical texts on drama from the early Greeks to the present.</td>
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<tr>
<td>841</td>
<td>Advanced Directing Practices</td>
<td>Spring of even years. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in Theatre. Directing theory and practice in contemporary theatre, including research and experimentation.</td>
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<tr>
<td>850</td>
<td>Portfolio Development: Digital and Traditional</td>
<td>Spring. 2(1-2) Practuces in traditional media as a basis for digital portfolio technologies. Software and hardware options applied to theatrical design portfolios.</td>
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<tr>
<td>860</td>
<td>Advanced Movement for the Actor</td>
<td>Spring. 2(0-4) P.M. (THR 450) Continued development of the actor's instrument and application of Laban's effort and spatial concepts. Improvisation, alignment and physical character invention through the introduction of Neutral Mask.</td>
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<td>871</td>
<td>Voice and Speech</td>
<td>Fall. 2(0-4) Principles of vocal production for the actor. Ear training, speech sounds, International Phonetic Alphabet (IPA) vocal core, anatomy and physiology. Application to poetry and prose.</td>
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<tr>
<td>872</td>
<td>Advanced Voice and Speech</td>
<td>Spring. 2(0-4) P.M. (THR 871) Development of the actor's vocal instrument and application to heightened text including poetry, narrations, speeches and The American Standard Dialect.</td>
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<tr>
<td>873</td>
<td>Voice and Movement Practicum</td>
<td>Fall. 2(0-4) Heightened language skills and period movement as a complement to studio acting.</td>
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<td>874</td>
<td>Dialects and Voice</td>
<td>Spring. 2(0-4) Application of dialects for stage performance and voice-over techniques in radio and television commercials.</td>
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<tr>
<td>890</td>
<td>Independent Study</td>
<td>Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to graduate students in Theatre or approval of department. Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.</td>
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<td>894</td>
<td>Special Projects in Theatre</td>
<td>Fall, Spring. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to graduate students in Theatre. Approval of department. Special projects related to specific assignments in acting, directing, or design in departmentally approved production.</td>
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<tr>
<td>899</td>
<td>Master's Thesis Research</td>
<td>Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to graduate students in Theatre. Directed research leading to a master's thesis, used in partial fulfillment of Plan A master's degree requirements.</td>
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