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# Interdisciplinary Programs

## Undergraduate Programs

### Degrees

#### Bachelor of Arts

American Studies and Ethnicity (see American Studies and Ethnicity, page 235)  
 American Studies and Ethnicity (African American Studies) (see American Studies and Ethnicity, page 236)  
 American Studies and Ethnicity (Asian American Studies) (see American Studies and Ethnicity, page 236)  
 American Studies and Ethnicity (Chicano/Latino Studies) (see American Studies and Ethnicity, page 237)  
 Animation and Digital Arts (see Cinema-Television, page 201)  
 East Asian Area Studies (see East Asian Area Studies, page 288)  
 Environmental Studies: Business (see Environmental Studies, page 314)  
 Environmental Studies: Geography (see Environmental Studies, page 315)  
 Environmental Studies: Public Policy and Management (see Environmental Studies, page 315)  
 Environmental Studies: Social Sciences (see Environmental Studies, page 314)

Gender Studies (see page 329)  
 Health and Humanity (see page 342)  
 Interdisciplinary Archaeology (see Anthropology, page 243)  
 Interdisciplinary Studies (see Interdisciplinary Studies, page 352)  
 International Relations (Global Business) (see International Relations, page 354)  
 Linguistics/East Asian Languages and Cultures (see Linguistics, page 371)  
 Linguistics/Philosophy (see Linguistics, page 371)  
 Linguistics/Psychology (see Linguistics, page 371)  
 Neuroscience (see page 388)  
 Religion, emphasis in Judaic Studies (see Religion, page 427)  
 Social Sciences, emphasis in Economics (see Economics, page 297)  
 Social Sciences, emphasis in History (see History, page 344)  
 Social Sciences, emphasis in Psychology (see Psychology, page 420)

#### Bachelor of Science

Biochemistry (see Biological Sciences, page 257)  
 Biophysics (see Physics and Astronomy, page 401)  
 Business Administration (Cinema-Television) (see Business, page 133)  
 Business Administration (East Asian Studies) (see Business, page 134)  
 Business Administration (International Relations) (see Business, page 134)  
 Computer Science/Business Administration (see Computer Science, page 591)  
 Economics/Mathematics (see Mathematics, page 378-379)  
 Environmental Studies: Biology (see Environmental Studies, page 316)  
 Environmental Studies: Chemistry (see Environmental Studies, page 316)  
 Environmental Studies: Earth Sciences (see Environmental Studies, page 317)  
 General Studies (see Education, page 517)  
 Physical Sciences (see Physics, page 401)  
 Physics/Computer Science (see Physics and Astronomy, page 400)

### Minors

American Popular Culture (see American Studies and Ethnicity, page 238)  
 American Studies and Ethnicity (see American Studies and Ethnicity, page 237)  
 Ancient Religion and Classical Languages (see Religion, page 427)  
 Animation and Digital Arts (see Cinema-Television, page 211)  
 Applied Theatre Arts/Education (see School of Theatre, page 869)  
 Arabic and Middle East Studies (see Linguistics, page 371)  
 Bioethics (see page 254)  
 Biotechnology (see Biological Sciences, page 258)  
 Business Law (see Business, page 135)  
 Children and Families in Urban America (see Social Work, page 808)  
 Coastal Ocean and Watershed Science (see Geography, page 333)  
 Communication and the Entertainment Industry (see Communication, page 456)  
 Communication Design (see Fine Arts, page 636)

Communication Law and Media Policy (see Communication, page 457)  
 Construction Planning and Management (see Engineering, page 578)  
 Consumer Behavior (see Interdisciplinary Programs, page 102)  
 Critical Approaches to Leadership (see Interdisciplinary Studies, page 352)  
 Cultural Studies (see Communication, page 307)  
 Cultures and Politics of the Pacific Rim (see East Asian Languages and Cultures, page 290)  
 East Asian Area Studies (see East Asian Area Studies, page 288)  
 Education in a Pluralistic Society (see Education, page 518)  
 Engineering Management (see Engineering, page 614)  
 Engineering Technology Commercialization (see Engineering, page 611)  
 Environmental Planning and Development (see Environmental Studies, page 318)  
 Environmental Natural Sciences (see Environmental Studies, page 317)

Environmental Social Sciences (see Environmental Studies, page 317)  
 Forensics and Criminality (see Sociology, page 437)  
 Gender Studies (see page 329)  
 Geobiology (see Earth Sciences, page 282)  
 Geographic Information Science (see Geography, page 333)  
 Global Communication (see Communication, page 457)  
 Health Communication (see Communication, page 458)  
 Health Policy and Management (see Policy, Planning, and Development, page 808)  
 International Policy and Management (see International Relations, page 355)  
 International Urban Development (see International Relations, page 355)  
 Jewish American Studies (see American Studies and Ethnicity, page 238)  
 Judaic Studies (see page 364)  
 Law and Internet Technology (see Engineering, page 620)

Law and Public Policy (see Policy, Planning, and Development, page 809)  
 Law and Society (see Political Science, page 410)  
 Managing Human Relations (see Interdisciplinary Programs, page 102)  
 Mathematical Finance (see Interdisciplinary Programs, page 103)  
 Multimedia and Creative Technologies (see Engineering, page 626)  
 Musical Theatre (see Music, page 754)  
 Natural Science (see Biological Sciences, page 258)  
 Neuroscience (see Neuroscience, page 388)

Pacific Rim Development (see Geography, page 333)  
 Peace and Conflict Studies (see page 392)  
 Performing Arts Studies (see Theatre, page 870)  
 Psychology and Law (see Psychology, page 420)  
 Public Policy (see Policy, Planning, and Development, page 809)  
 Race, Ethnicity and Politics (see Political Science, page 410)  
 Russian Area Studies (see Slavic Languages and Literatures, page 432)

Southern California (see Geography, page 333)  
 Thematic Approaches to the Humanities and Society (see Thematic Option, page 449)  
 Theories of Art (see Philosophy, page 394)  
 3-D Animation (see Fine Arts, page 620)  
 Urban Neighborhood Studies (see page 104)  
 Video Game Design and Management (see Engineering, page 621)  
 Visual Culture (see Art History, page 249)

## Programs

Collaborative Learning Projects (see Learner Centered Curricula, page 369)  
 Honors in Multimedia Scholarship (see Interdisciplinary Programs, page 103)  
 Individual Programs of Study (see Learner Centered Curricula, page 369)  
 Liberal Arts Modules (see Thematic Option, page 448)

## Graduate and Professional Programs

### Degrees

#### Master's Degrees

Cell and Neurobiology (see Medicine, page 714)  
 Clinical and Biomedical Investigations (see Medicine, page 734)  
 Construction Management (see Policy, Planning, and Development, page 834)  
 Digital Supply Chain Management (see Business, page 156)  
 Medical Device and Diagnostic Engineering (see Engineering, page 560)  
 Physiology and Biophysics (see Medicine, page 727)  
 Public Diplomacy (see Communication, page 462)

#### Graduate Certificates

Engineering Technology Commercialization (see Engineering, page 611)  
 Optimization and Supply Chain Management (see Business, page 157)  
 System Safety and Security (see Engineering, page 617)  
 Transportation Systems (see Policy, Planning, and Development, page 824)  
 Urban and Global Studies (see Interdisciplinary Programs, page 105)  
 Visual Studies (see Art History, page 251)

#### Doctor of Philosophy

Computational Biology and Bioinformatics (see Biological Sciences, page 260)  
 Molecular Pharmacology and Toxicology (see Pharmacy, page 790)  
 Pathobiology (see Medicine, page 724)  
 Pharmaceutical Sciences (see Pharmacy, page 790)  
 Physiology and Biophysics (see Medicine, page 727)

## Interdisciplinary Programs

### Minor in Consumer Behavior

**Accounting 306**  
(213) 740-5033

This interdisciplinary minor explores consumer thinking from the perspectives of psychology, marketing, economics, anthropology, sociology and other departments interested in popular culture. Why do people form the attitudes and impressions they do? How do individual factors, culture, mass media, economics and social trends influence people's decisions?

As with all minors, students must include at least four upper-division courses and four courses dedicated exclusively to this minor (which may be the same four courses). Finally, students must select four courses outside their major department. Psychology majors must choose four courses outside of psychology; business majors must choose four

courses outside of the Marshall School of Business.

REQUIREMENTS		UNITS
Choose one of the following courses (4 units):		
BUAD 307	Marketing Fundamentals	4
PSYC 100	Introduction to Psychology	4
Choose one of the following courses (4 units):		
MKT 450	Consumer Behavior and Marketing	4
PSYC 355*	Social Psychology	4
SOCI 320	Social Psychology	4
Choose two of the following courses (8 units):		
ANTH 460	Economic Anthropology	4
COMM 302	Persuasion	4
ECON 336*	The Political Economy of Values	4
MKT 405*	Advertising and Promotion Management	4

MKT 410*	Personal Selling	4
ECON 432*	Economics of Happiness	4
PSYC 454*	Social Cognition	4
PSYC 457*	Applied Social Psychology	4

Choose one of the following courses (4 units):		
COLT 365	Literature and Popular Culture	4
COMM 384	Interpreting Popular Culture	4
ENGL 392	Visual and Popular Culture	4
HIST 380	American Popular Culture	4
MKT 470*	Marketing Research	4
PSYC 490x	Directed Research	4

\*Prerequisites required

(Please note that prerequisites will not be waived for upper-division courses; students must complete the introductory classes they will need.)

Total requirements: five courses 20 units

### Minor in Managing Human Relations

**College Academic Services Building**  
(213) 740-2534

This interdisciplinary minor is intended for students in all schools with an interest in human relations as a subject of study or professional goal. In addition to course work in organizational behavior, social psychology and management, this minor includes attention to questions of ethics and leadership.

As with all minors, students must include at least four upper-division courses and four courses dedicated exclusively to this minor (not used for credit toward a major, another minor or general education requirements). Finally, students must select four courses outside their major department. Students seeking the Bachelor of Arts in Sociology must choose four courses outside of sociology; those seeking the Bachelor of Science in Business Administration must choose four courses outside the Marshall School.

REQUIREMENTS		UNITS
Choose one course from the following (4 units):		
BUAD 304	Organizational Behavior	4
PSYC 355*	Social Psychology	4
SOCI 320	Social Psychology	4
Choose one course from the following (4 units):		
MOR 431*	Interpersonal Competence and Development	4
PSYC 457*	Applied Social Psychology	4
SOCI 340	Organizations: Bureaucracy and Alternatives to Bureaucracy	4
SOCI 342	Race Relations	4
SOCI 345	Social Institutions	4
Choose one course from the following list of classes on leadership (4 units):		
CLAS 370	Leaders and Communities: Classical Models	4
IR 303	Leadership and Diplomacy	4
MOR 470*	Global Leadership	4
MDA 325	Case Studies in Modern Leadership	4
MDA 365	The Art and Adventure of Leadership	4
PHIL 335	Theoretical Models of Leadership	4

Choose one course from the following list of classes on ethics (4 units):		
BUCO 425*	Public Communication in Ethics and Research	4
MOR 421*	Social and Ethical Issues in Business	4
PHIL 340	Ethics	4
REL 341	Ethics in a Technological Society	4
REL 375	Conflict and Change and the Ethics of Business	4

Choose one of the following three capstone classes (4 units):		
ECON 332*	Contracts, Organizations, and Institutions	4
ECON 471*	Economics of Labor Markets and Human Capital	4
MOR 471	Human Resources Management	4
SOCI 340	Work and the Workplace	4

\*Course has prerequisite or corequisite

Total requirements: five courses 20 units

## Minor in Mathematical Finance

**Kaprielian Hall 108**  
(213) 740-2400

This interdisciplinary minor was created for students in business, economics and mathematics, whose majors already require some of the introductory course work. Students in other programs are welcome but should expect the minor to require more units than it does for students in those programs.

As with all minors, students must include at least four upper-division courses and four courses dedicated exclusively to this minor (which may be the same four courses). Finally, students must select four courses outside their major department. Economics majors must choose four courses outside of economics; math majors must choose four courses outside of math; business majors must choose four courses outside of the Marshall School of Business. These may be the same courses used to meet the first two conditions.

REQUIREMENTS		UNITS
ECON 203	Principles of Microeconomics	4
ECON 205	Principles of Macroeconomics	4

Choose one of the following two sequences (8 units):

ECON 303*	Intermediate Microeconomic Theory	4
ECON 305*	Intermediate Macroeconomic Theory	4
or		
BUAD 350*	Macroeconomic Analysis for Business Decisions	4
BUAD 351*	Economic Analysis for Business Decisions	4

Choose two courses, one from each of the following pairs (8 units):

MATH 118x	Fundamental Principles of the Calculus, or	
MATH 125	Calculus I	4
MATH 218*	Probability for Business, or	
MATH 407*	Probability Theory	4

Choose two courses from the following list (8 units):

MATH 126 or MATH 127; MATH 225 or MATH 245; MATH 226 or MATH 227; MATH 408 or MATH 467

Choose one course from the following list (4 units):

BUAD 306, BUAD 310, ECON 350\*, ECON 357\*, FBE 441\*

Choose one course from the following list (4 units):

ECON 452\*, ECON 457\*, FBE 324\*, FBE 421\*, FBE 443\*, FBE 445\*, FBE 459\*, FBE 462\*, FBE 464\*

Choose one course from the following two (2 units):

ITP 165x, ITP 168x

\*Prerequisite required

Total requirements, for students with no prior course work: 42 units

Students majoring in business administration, economics or mathematics can meet many of these requirements with course work that also satisfies their majors. In addition to those classes, students in those majors must complete the following requirements:

- Business majors satisfy 24 units with course work that is also required for the major and need to complete only 18 units in MATH, ECON and ITP
- Economics majors satisfy 20-24 units with course work required for the major (including one major elective), needing only 18-22 units in BUAD, FBE, ITP and MATH
- Mathematics majors satisfy 16 units with course work required for the major, needing only 26 units in BUAD, ECON, FBE and ITP.

## Honors in Multimedia Scholarship

**EGG 202**  
(213) 743-2198  
FAX: (213) 747-8357  
Email: [honors@annenberg.edu](mailto:honors@annenberg.edu)  
[www.aml.annenberg.edu](http://www.aml.annenberg.edu)

*Director:* Anne Balsamo

### Program Overview

Honors in Multimedia Scholarship offers qualified undergraduate students an opportunity to approach their discipline(s) of study through the critical application of multimedia expression and scholarship. The program is based on the premise that a century of mass media and the advent of digital communication have transformed the way ideas are expressed and understood across society. As a result, the notion of literacy, which has traditionally referred to the reading and writing of printed materials, has fundamentally expanded to include new forms of expression.

Over the four-year course of the students' undergraduate experience, the program will gradually expose them to the history, theory and practice of multimedia scholarship within a range of disciplinary and interdisciplinary contexts, developing and refining their abilities to research, author and publish work in methods appropriate and specific to their field of study.

Students accepted into the Institute for Multimedia Literacy Honors Program in Multimedia Scholarship participate in smaller classes taught by leading faculty members. The program enrolls entering freshman students, and a limited number of sophomore students, who will integrate multimedia courses into their curriculum throughout their four-year university education.

Each course within the program is designed to develop student facility with the theory and practice of genres of multimedia scholarship and provide opportunities to develop skills in multimedia authorship, collaboration, leadership and creative thinking.

*Year 1:* Foundational study of the contexts, concepts and competencies of multimedia literacy, embodied in the languages of new media.

*Year 2:* Beginning integration of multimedia approaches within chosen disciplines and within the general education liberal arts structure.

*Year 3:* Development of proficiency with multimedia as a scholarly tool within a student's own discipline or cognate fields of study.

*Year 4:* A year-long project that demonstrates mastery in the area of discipline-based multimedia authorship.

Upon successfully completing IML 101, students will fulfill the other requirements through IML-specific courses in the general education program and courses in their major, minor or cognate field of study. Students complete the honors program with a culminating capstone course.

To maintain small classes and allow for extensive discussion and project development, the Honors in Multimedia Scholarship program requires an individual application process for each student. Students must be highly motivated which should be reflected in their personal statement, cumulative SAT scores of 1400 or above and an A- high school GPA. The program is rigorous and requires extensive reading, writing and multimedia authoring. Honors in Multimedia Scholarship (IML) courses are not available for pass/no pass registration.

Information about courses for the Honors in Multimedia Scholarship and other program offerings can be obtained from advisors in the Institute for Multimedia Literacy offices.

COURSE REQUIREMENTS	UNITS
IML 101 Honors in Multimedia Scholarship: The Languages of New Media I	4
General education course	4
General Education Category I course offered exclusively for Honors in Multimedia Scholarship students. (Indicated in the <i>Schedule of Classes</i> each semester.)	

300/400 level course  
Upper-division course in major, minor or cognate field of study that incorporates or supports multimedia expression of the subject matter. (Indicated in *Schedule of Classes* or by prior agreement with professor.)

IML 440	Honors in Multimedia Scholarship: Multimedia Honors Thesis Project I	4
IML 444	Honors in Multimedia Scholarship: Multimedia Honors Thesis Project II	4
		20

ELECTIVES	UNITS	
IML 104	Honors in Multimedia Scholarship: The Languages of New Media II	2
IML 346	Honors in Multimedia Scholarship: Methods in Scholarly Multimedia	2

#### MULTIMEDIA SCHOLARSHIP (IML)

**101 Honors in Multimedia Scholarship: The Languages of New Media I (4, FaSp)**  
An introduction to the history, theory, and languages of new media. Open to students in the Honors Program in Multimedia Scholarship only.

**104 Honors in Multimedia Scholarship: The Languages of New Media II (2, FaSp)**  
An introduction to the expressive range of screen languages in their cultural, historical, and technological contexts. Open to students in the Honors Program in Multimedia Scholarship only. *Prerequisite:* IML 101.

**346 Honors in Multimedia Scholarship: Methods in Scholarly Multimedia (2, max 4, FaSp)** Emphasizing rigorous student multimedia authorship, this course explores the impact of multimedia on disciplinary conventions. Concurrent with upper division course with research component in student's major/minor. Open to students in the Honors program in Multimedia Scholarship only. *Prerequisite:* IML 101; *recommended preparation:* IML 104.

**440 Honors in Multimedia Scholarship: Multimedia Honors Thesis Project I (4, FaSp)** Exploration of theoretical and practical concerns of advanced level interdisciplinary multimedia research and authorship. Open to students in the Honors Program in Multimedia Scholarship only. Senior standing. *Prerequisite:* IML 101.

**444 Honors in Multimedia Scholarship: Multimedia Honors Thesis Project II (4, FaSp)** Production of Multimedia Honors thesis. Open to students in the Honors Program in Multimedia Scholarship only. *Prerequisite:* IML 440.

**499 Special Topics (4)** Selected topics in multimedia literacy. Open to students in the Honors Program in Multimedia Literacy only.

## Urban Initiative

The USC Urban Initiative offers an undergraduate minor in urban neighborhood studies and a graduate certificate in urban and global studies. Faculty from across the university's professional schools and USC College actively engage in inter- and trans-disciplinary scholarship that bridges basic and applied research.

Faculty and students undertake applied and theoretical urban scholarship in an environment that promotes inquiry, introduces principles and values and teaches the skills necessary to work on complex urban problems in multidisciplinary environments and to develop the common language essential to effective collaboration.

**Minor in Urban Neighborhood Studies**  
The focus of this minor is on the quality of urban life at the scale of the neighborhood or district. This is the location of the places of residence and work, of education and religion, of everyday life. Neighborhoods are the fundamental building blocks of cities.

The minor is supported by the four "urban schools" of USC: Architecture, Education, Social Work, and Policy, Planning, and Development. The core studies are "hands-on" as a practicum in learning about neighborhoods and learning how the disciplines of the four schools provide the means for understanding and treating urban issues. The core courses are team taught by faculty from the collaborating schools.

This minor should be of interest to students generally, but especially to those interested in the nature of urban life and the policies and actions directed toward the improvement of cities.

The requirements for the minor include two required courses and 12 units of elective courses, including at least one from each of three of the Schools of Architecture, Education, Social Work, and Policy, Planning, and Development.



One of the listed geography courses may be substituted for a course from one of the sponsoring schools. At least 8 of the 12 elective units must be upper division. Students in the School of Architecture and in the School of Policy, Planning, and Development may not apply more than one core course toward their major and must take all of their elective courses outside their major.

REQUIRED COURSES		8 UNITS
URBN 375	The Urban Neighborhood	4
URBN 475	Urban Practicum	4
ELECTIVE COURSES		UNITS
One course each selected from three of the four schools:		
ARCH 114	Architecture: Culture and Community	2
ARCH 206	Shelter	4
ARCH 432	People, Places, and Culture: Architecture of the Public Realm	4
ARCH 450	Fundamentals of Historic Preservation	4
EDPA 302	Global Education	4
EDPA 308	Politics and American Education	3
GEOG 325*	Culture and Place	4
GEOG 340*	Latino L.A.	4
GEOG 410*	Urban Geography	4
PPD 350	Urban Institutions and Policies	4
PPD 372	Public Service in an Urban Setting	4
PPD 417	History of Planning and Development	4
PPD 425	Designing Livable Communities	4
PPD 439	Housing and Community Development	4
SOWK 200	Institutional Inequality in American Political and Social Policy	4
SOWK 304	Children and Families in Urban America	4
SOWK 400	Children and Families in Urban America Capstone Course	4

\*May be substituted for a course from one of the sponsoring schools.

### Graduate Certificate in Urban and Global Studies

The Urban and Global Studies certificate provides an intense, interdisciplinary, intellectual educational, research and training experience focused on cities in global context to doctoral students from diverse professional and academic disciplines.

Urban challenges today are complex, often global problems that defy solutions from one discipline. The Urban and Global Studies certificate seeks to train a new generation of scholars with the skills to bridge basic and applied research, work collaboratively across disciplines, and think beyond national or local spheres to discover better solutions to complex problems. It offers scholars from interdisciplinary and disciplinary fields a unique opportunity to exchange respective methodologies and develop an enlarged community of communication.

A critical component of participation in the Urban and Global Studies certificate will be an international research project in the summer of the second year of the Ph.D. program. This will provide the student cohort with critical international comparative experience.

#### Admissions Criteria

Applicants for admission to the Urban and Global Studies certificate must be full-time currently enrolled students in good standing in a USC Ph.D. program. Applicants will be expected to have completed one year of full-time study in their respective schools prior to admission (generally, students will apply in the spring of their first year of study; however, other applicants further along in their Ph.D. studies will also be considered). Admitted students will generally enroll in the certificate courses during the second and third year of their Ph.D. studies.

Admission to the certificate program is highly selective and competitive. Preference is given to those with professional and academic qualities favoring success in interdisciplinary collaboration and scholarship around complex problem-solving.

Applicants must supply (1) a one-page statement of their professional and academic background and interests and career goals related to the certificate; (2) a letter of recommendation from a faculty member who knows the student's work well; and (3) a brief letter from the departmental chair (for applicants in USC College departments) or program advisor (for professional school applicants) indicating that the applicant is a currently enrolled student in good standing. Applications must be signed by the dean or a designated signer.

For specific information on admission requirements, application procedures and urban and global fellowships contact the Urban Initiative office at (213) 740-8181.

### URBAN STUDIES (URBN)

#### 375 The Urban Neighborhood (4, Fa)

Understanding neighborhoods as the fundamental places of everyday urban life from the perspective of the fields of architecture, education, planning and social work. (Duplicates credit in former ARCH 375.)

#### 475 Urban Practicum (4, Sp)

Critical assessment of existing urban neighborhoods as a basis for proposing positive social and physical interventions. (Duplicates credit in former ARCH 475.) *Recommended preparation:* URBN 375.

#### 601 Pro-Seminar in Urban and Global Studies (1, max 3, FaSp)

Introduces students to the issues and problems of global cities and a range of urban scholars via the Urban Initiative lecture series. Open to Urban and Global Studies students only. Graded CR/NC.

#### 603 Comparative Urbanism: Theory, Method, Policy (4, Fa)

A critical overview of the city in history, past and present approaches to urban theory, the dynamics of contemporary urbanization and urban outcomes, and prospects for managing urban growth and change. Open to Urban and Global Studies students only. *Concurrent enrollment:* URBN 601.

#### 605 Interdisciplinary Methods of Inquiry in Urban and Social Problems (3, Sp)

Engages participants in discourse about the characteristics of urban problems and intellectual foundations of ways to solve them. It offers communication and language skills across disciplines. Open to Urban and Global Studies students only. *Prerequisite:* URBN 603; *concurrent enrollment:* URBN 601.

#### 700 Grand Challenge Integrative Seminar (3, Sp)

Seminar builds on knowledge and assignments of the Grand Challenge courses. Students describe, analyze and compare the work they did in their separate Grand Challenge courses. Open to Urban and Global Studies students only. *Prerequisite:* URBN 603, URBN 605.