252. Performance: Concepts of Space, Place, and Time (4)
Lecture—2 hours; laboratory—3 hours. Prerequisite: consent of instructor. Innovative theories of creating performance spaces, establishing a sense of place, and communicating the concept of time explored through collaborative production. Requires participation in a variety of traditional and specific elements utilized by actors, dancers, directors, choreographers, and designers are combined or related to form a whole in space and time, as well as methods of sequencing used by each discipline to produce artistic products. May be repeated one time for credit.

253. Approaches to Collaboration (4)
Lecture—3 hours; laboratory—3 hours. Prerequisite: consent of instructor. Exploration of different approaches to collaboration among artists in different media and their influence on the creative process.

254. Performing Identities/Personae (4)
Lecture—3 hours; laboratory—3 hours. Prerequisite: consent of instructor. Historical and contemporary theories of constructing stage identities. Discussion and project collaborations based on theories. Questions of identity related to ethnicity, gender, and sexual orientation. Offered in alternate years. — S. (S.)

255. Composition in the Arts (4)
Lecture—3 hours; laboratory—3 hours. Prerequisite: consent of instructor. Examine manner in which specific elements utilized by actors, dancers, directors, choreographers, and designers are combined or related to form a whole in space and time, as well as methods of sequencing used by each discipline to produce artistic products. May be repeated one time for credit.

256. Visual Language for Performance (4)
Lecture—3 hours; laboratory—3 hours. Prerequisite: graduate standing. Restricted to graduate students. Explored are different approaches and methods to the visual elements of performance. Focus on design and style for different media and genres, storytelling through visual elements of performance. Offered in alternate years. — Morgan

257. Interdisciplinary Seminar in Theatre, Dance and Performance (1)
Seminar—1.5 hours; project—1.5 hours. Prerequisite: consent of instructor. Restricted to students enrolled in the MFA in Dramatic Art; students taking the PhD in Performance Studies or the DE in Studies in Performance and Practice may apply to enroll. Interdisciplinary seminar for first and second year MFA students in Dramatic Art. Topics range from current practice in dance, theatre, film and performance, to leading edge developments by outstanding practitioners in the field. May be repeated for credit.

259. Topics in Contemporary Theatre and Performance (4)
Seminar—3 hours; term paper. Prerequisite: consent of instructor. Special topics designed to study in-depth aspects of contemporary performance including performance analysis, cultural and historical context, modes of production, theoretical and political entailments, and issues of spectatorship (e.g., "Brecht and After,"
"British Theatre,"
"Race and Gender in Performance.") May be repeated five times for credit. — F, W, S. (F, W, S.)

260. Topics in Contemporary Theatre and Performance (4)
Seminar—3 hours; term paper; project. Prerequisite: admission to any graduate program in the University; consent of instructor. Preference to students enrolled in the Designated Emphasis in Studies in Performance and Practice. Instruction is offered a variety of disciplinary approaches and methodologies in Performance and Practice, with a focus on cross-disciplinary learning and research. Usually offered each quarter. May be repeated for credit when content differs. Offered irregularly.

265A. Performance Studies: Modes of Production (4)
Seminar—3 hours; term paper; project. Prerequisite: consent of instructor. Introduces students to the literature of performance production in a variety of media: theatre, dance, film, video, computer-based, looking at cultural, aesthetic, rhetorical and political theory. May be repeated three times for credit when topic differs. Offered in alternate years.

265B. Performance Studies: Signification and the Body (4)
Seminar—3 hours; term paper; project. Prerequisite: consent of instructor. Introduces students to analysis of the body in performance, drawing on theoretical models from several fields. May be repeated three times for credit when topic differs. Offered in alternate years.

265C. Performance Studies: Performance and Society (4)
Seminar—3 hours; term paper; project. Prerequisite: consent of instructor. Introduces students to the role of performance (broadly defined), in everyday life, sociopolitical negotiations, identity, social movements, the media, and the state. May be repeated three times for credit when topic differs. Offered in alternate years. — W. S. (W, S.)

265D. Performance Studies: Theory, History, Criticism (4)
Seminar—3 hours; term paper; project. Prerequisite: consent of instructor. Introduction to the theory, history and criticism, informing performance studies. May be repeated three times for credit when topic differs. Offered in alternate years.

280. Theatre Laboratory (1-12)
Prerequisite: consent of instructor. Advanced practice in acting, directing, playwriting, and technical theatre may be repeated for credit.

298. Group Study (1-5)
Prerequisite: consent of instructor. 

299. Individual Study (1-12)
Prerequisite: consent of instructor. S/U grading only.

299D. Dissertation Research (1-12)
Prerequisite: consent of instructor. S/U grading only.

Professional

396. Teaching Assistant Training Practicum (1-4)
Prerequisite: consent of instructor. May be repeated for credit. S/U grading only.

413. Stage Make-up (1)
Lecture/laboratory—2 hours. Prerequisite: consent of instructor. Approved for graduate degree credit. Lectures, demonstrations, and practical work in aspects of theatrical makeup.

Transportation Technology and Policy (A Graduate Group)

Susan Handy, Ph.D., Chairperson of the Group
Group Office. 1605 Tillia, Suite 100
530-752-0247; http://www.its.ucdavis.edu

Faculty
Gwen Arnold, Ph.D., Assistant Professor
(Environmental Science and Policy)
Francis Assadian, Ph.D., Professor
(Mechanical and Aerospace Engineering)
David Bunch, Ph.D., Professor
(Graduate School of Management)
Paul Erickson, Ph.D., Associate Professor
(Mechanical and Aerospace Engineering)
Yueyu Fan, Ph.D., Associate Professor
(Civil and Environmental Engineering)
Y. Hossein Farzin, Ph.D., Professor
(Agricultural and Resource Economics)
Susan Hwang, Ph.D., Associate Professor
(Environmental Science and Policy)
John T. Harvey, Ph.D., Professor
(Civil and Environmental Engineering)
Miguel Jaller, Ph.D., Assistant Professor
(Civil and Environmental Engineering)
Bryan Jenkins, Ph.D., Professor
(Biological and Agricultural Engineering)
Alissa Kendall, Ph.D., Associate Professor
(Civil and Environmental Engineering)
Cynthia Lin Lowell, Ph.D., Associate Professor
(Agricultural and Resources Economics)
Frank Luge, Ph.D., Professor
(Civil and Environmental Engineering)
Mark Lubell, Ph.D., Professor
(Environmental Science and Policy)
Erich Muehelegger, Assistant Professor
(Economics)
Debbie A. Niemeier, Ph.D., Professor
(Civil and Environmental Engineering)
Joan Ogden, Ph.D., Professor
(Environmental Science and Policy)
Daniel Sperling, Ph.D., Professor
(Civil and Environmental Engineering)
R. David Rapson, Ph.D., Associate Professor
(Economics)
Simon Sadler, Ph.D., Professor (Design)
Robert Johnsnon, Ph.D., Professor
(Civil and Environmental Engineering)

Emeriti Faculty
Thomas Cahill, Ph.D., Professor Emeritus
(Aerospace Science and Physics)
Dain Chang, Ph.D., Professor Emeritus
(Civil and Environmental Engineering)
Harry Dwyer, Ph.D., Professor Emeritus
(Mechanical and Aerospace Engineering)
Mark Francis, M.L.A., Professor
(Landscape Architecture)
Andrew A. Frank, Ph.D., Professor Emeritus
(Mechanical and Aerospace Engineering)
Robert Johnston, Ph.D., Professor Emeritus
(Environmental Science and Policy)
Patricia L. Mokhtarian, Ph.D., Professor Emeritus
(Civil and Environmental Engineering)

Affiliated Faculty
Rahman Azari, Ph.D., Lecturer (Statistics)
Andrew F. Burke, Ph.D., Research Engineer
(Institute of Transportation Studies)
Steven S. Cliff, Ph.D., Research Engineer
(Institute of Transportation Studies)
Kenneth S. Kurani, Ph.D., Research Engineer
(Institute of Transportation Studies)
Alan Meier, Ph.D., Professional Researcher
(Institute of Transportation Studies)
Gian-Claudia Sciarra, Ph.D., Assistant Professional Researcher
(Institute of Transportation Studies)
Gail Tal, Ph.D., Assistant Professional Researcher
(Institute of Transportation Studies)
Thomas Turrentine, Ph.D., Research Anthropologist
(Institute of Transportation Studies)
Christopher Yang, Ph.D., Research Scientist
(Institute of Transportation Studies)
Sonia Yeh, Ph.D., Research Scientist
(Institute of Transportation Studies)

Graduate Study. The Graduate Group in Transportation Technology and Policy offers the M.S. (Plan I—thesis; and Plan II—exam) and Ph.D. degrees in two areas of specialization: Transportation Technology, and Transportation Planning and Policy. The technology track is for students trained in engineering and the physical sciences and interested in systems-level planning, analysis, management and design of advanced technologies (emphasizing vehicle propulsion and "intelligent transportation system" technologies) focusing on energy and environmental issues. The planning and policy track is aimed at students from a wider range of disciplines interested in the broader public policy issues concerning transportation systems. The curriculum for both tracks includes courses in civil, mechanical, and environmental engineering, economics, policy sciences, statistics, travel behavior, management, technology assessment and environmental studies.
Preparation. Applicants will normally be expected to have completed two courses in calculus, one course in transportation and one course each in calculus-level statistics and microeconomics. Additionally, students entering the technology track will need either to have an appropriate technical background or make up a relatively large number of prerequisite courses in order to be able to take the approved courses in that track.

Program of Study. Students will have the option of following either a technology or policy/management track. M.S. students complete 6 core courses plus electives. Ph.D. students take 7 courses from the same core, 3 additional courses from their chosen track, one more in the alternate track, plus electives. Master’s degrees require a minimum of 36 quarter units and doctoral degrees require a minimum of 54 units. M.S. Plan I students may replace up to 6 units of regular course work with research (course 299) units. At least three thirds of all credits must be at the graduate level.

Graduate Advisers. YueYue Fan and Alissa Kendall

Curriculum

Core Courses. Students in each track are required to take courses in a common set of core competencies, as well as (for Ph.D. students) some courses in the other track.

Knowledge areas core courses: M.S. and Ph. D. students take Technology Transportation (TTP 210), Transportation Policy (ECI 252 or TTP 220), and Transportation Systems (ECI 251).

Skill areas core courses: M.S. and Ph.D. students take one in the area of Research Design from the following: Transportation Survey Methods (TTP 200), Research Methods in Environmental Policy (ESP 278), Survey and Questionnaire Research Methods (PSY 207), Design and Analysis of Engineering Experiments (EBS 265), Experimental Design and Analysis (PLS 205), Engineering Experimentation and Uncertainty Analysis (MAE 207), Statistical Methods for Research (STA 205),

M.S. students take one and Ph.D. students take two in the area of Transportation Models and Quantitative Methods from the following: Applied Linear Programming (ARE 252), Optimization Techniques with Economic Applications (ARE 255), Dynamic Optimization Techniques with Economic Applications (ARE 254), Applied Econometrics (ARE 256), Probabilistic Design and Optimization (ECI 249), Dynamic Programming and Multistage Decision Processes (ECI 253), Discrete Choice Analysis of Travel Demand (ECI 254), Urban Traffic Management (ECI 256), Transportation-Air Quality: Theory and Practice (ECI 269), Quantitative Geography (GEO 200CN), Numerical Optimization (MAT 258A), Variational Analysis (MAT 258B), Applied Statistical Methods: Regression Analysis (STA 108), Applied Statistical Methods: Analysis of Variance (STA 104), Analysis of Categorical Data (STA 138), Design and Analysis of Engineering Experiments (EBS 265), Multivariate Systems and Modeling (PLS 206), or Psychological Data (PSC 204A, B, C, or D).

Integration and Breadth core courses: M.S. and Ph. D. students take ITS Seminars (TTP 281), Transportation Orientation Seminar (TTP 282), and Research (TTP 299).

Planning and Policy Courses. Approved courses in this area include the following; additional courses may be added upon approval by the Chairperson.

Other Courses. Approved courses in this area include the following; additional courses may be added upon approval by the Chairperson:

Courses in Transportation Technology and Policy (TTP) Graduate

200. Transportation Survey Methods (4) Lecture—4 hours. Prerequisite: Statistics 13; Civil and Environmental Engineering 251 recommended. Description of types of surveys commonly used in transportation demand modeling, including travel and activity diaries, attitudinal, panel, computer, and stated-response surveys. Discussion of sampling, experimental design, and survey design issues. Analysis methods, including factor, discriminant and cluster analysis. Not open for credit to students who have taken Civil and Environmental Engineering 255. [Same course as Geography 281.—W. (W.)]

210. Fundamentals of Transportation Technology (4) Lecture—2 hours, discussion—2 hours. Prerequisite: consent of instructor; Mathematics 21A, 21B, 22A; graduate or junior/senior undergraduate as a technical elective. Limited enrollment. Fundamentals of Transportation Technology is a course designed to prepare students in the basics of thermodynamics, fluid mechanics and heat transfer as they relate to transportation. Not open for credit to students who have completed course 289. [Former course 289.—F. (F.)]

220. Transportation Planning and Policy (4) Lecture/discussion—4 hours. Limited enrollment. Transportation planning process at the regional level, including the role of federal policy in shaping regional transportation planning, tools and techniques used in regional transportation planning, issues facing regional transportation agencies, and pros and cons of potential solutions and strategies. Students having taken this course previously as course 289 cannot repeat it for credit, having taken other course 289 offerings does not preclude taking this course for credit. [Same course as Geography 236.] Offered in alternate years.—S. Handy

281. ITS Transportation Seminar Series (1) Seminar—1.5 hours. Transportation seminars by guest speakers, on varied topics. May be repeated for credit. (S/U grading only)—F. W. S. (F. W. S.) Handy, Sterling

282. Transportation Orientation Seminar (1) Seminar—1 hour. Ten weeks of seminars, introducing various topics in transportation research and education, focusing on topics of particular interest at UC Davis. May be repeated for credit. (S/U grading only)—F. (F.) Handy

283. Professionalism, Leadership, and Ethics (1) Seminar—2 hours. Speakers from industry, government, academia, and NGOs will lead discussions about succeeding and performing in the professional world. They will address leadership, ethics, and other workplace issues. May be repeated for credit. (S/U grading only)—S. (S.) Sterling

289A. Selected Topics in Transportation Technology and Policy (1-5) Lecture and/or laboratory. Prerequisite: consent of instructor. Directed group study of special topics with instruction carried out through lecture or laboratory, or a combination of both. May be repeated for credit. —F. W. S. (F. W. S.)

289B. Selected Topics in Transportation Technology and Policy (1-5) Lecture and/or laboratory. Prerequisite: consent of instructor. Directed group study of special topics with instruction carried out through lecture or laboratory, or a combination of both. May be repeated for credit. (S/U grading only)—F. W. S. (F. W. S.)

290C. Graduate Research Group Conference (1) Discussion—1 hour. Prerequisite: consent of instructor. Research problems, progress, and techniques in transportation. May be repeated for credit. (S/U grading only)—F. W. S. (F. W. S.)
UC Davis Study Abroad

Aliki Dragona, Ph.D., Faculty Director
UC Davis Study Abroad
International Center, Suite 1120
530-297-4633; Fax 530-297-4695;
studyabroad@ucdavis.edu;
http://studyabroad.ucdavis.edu/

The opportunity to study abroad is one of the richest educational experiences a student can have. When students return from study abroad in places like Italy or Hong Kong, they describe their time abroad as an experience that changed their lives. Some programs include the possibility of internships, field or lab work, research, and language learning in intimate and engaging environments. Participants remain registered UC Davis students while abroad and receive UC Davis units for their academic work. Open to students from any major, these programs allow students to choose courses from a wide range of specialties.

Programs range from two-week seminars to four-week summer offerings to quarter-long options. All programs allow students to experience the host country's unique culture through co-curricular activities, such as day-trips to surrounding areas, museum tours, and theatre visits. Many also include field work, internship, or service learning opportunities. Financial aid and scholarships apply. Students may participate in UC Davis faculty-led programs as early as their freshman year, or as late as their senior year. Applicants must have a 2.00 GPA, be in good academic and disciplinary standing, and must fulfill any prerequisites specific to the program or courses.

In preparation for UC Davis Quarter Abroad, UC Davis Summer Abroad, and/or UC Davis Seminars Abroad, students are urged to take Education Abroad, UC Davis Summer Abroad, and/or UC Davis Seminars Abroad, courses.

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