

School of Education

Emeriti: (Professors) Edwin M. Bridges*, Robert C. Calfee, Robbie Case, Elizabeth Cohen*, Lee J. Cronbach, Nathaniel L. Gage*, Alfred H. Grommon, Richard E. Gross, Ernest R. Hilgard, Paul D. Hurd, Wolfgang E. Kuhn, Henry M. Levin, Miriam Lidster, Richard Lyman (President emeritus), James G. March*, William F. Massy*, Nel Noddings, Thomas Rohlen, Wesley K. Ruff, Lee S. Shulman*, Carl E. Thoresen*, David B. Tyack*, George D. Spindler, Hans Weiler*, H. Donald Winbigler

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Assistant Professors: Anthony L. Antonio, Brigid J. Barron, Mike Copland, Susanna Loeb, Daniel McFarland, Karen E. Mundy, Deanne R. Perez-Granados, Na'ilah Suad Nasir, Robert Roeser, Joy Williamson

Professor (Teaching): Alan Peshkin

Associate Professors (Teaching): Shelley Goldman, Rachel Lotan

Courtesy Professors: Paul Brest, Shirley Heath, Donald Kennedy, Mark Lepper, John Meyer, Brad Osgood, John Rickford

Courtesy Assistant Professor: Robert Reich

Senior Lecturer: Philip Hubbard

Lecturers: Margaret Azevedo, Colin Haysman, Cathy Humphreys, James Montoya, Celia Moreno, Kathleen Morrison, Denis C. Pope, Ann Porteus, Susan Schultz, Lee Swenson, Ann Vosovic, Lori White

Acting Assistant Professors: Susan Christopher, Diana Rhoten

Consulting Professors: George Bohrnstedt, Jay Chambers, David Fetterman, John W. Gardner, Jr., Thomas Parrish

Consulting Associate Professor: Charla Rolland Shelton

Visiting Professors: Paul Black, Joshua A. Fishman, Ann Lieberman, Sheldon Rothblatt

* Recalled to active duty.

The School of Education prepares scholars, teachers, teacher educators, counseling psychologists, policy analysts, evaluators, researchers, administrators, and other educational specialists. Four graduate degrees with specialization in education are granted by the University: Master of Arts, Master of Arts in Teaching (Subject), Doctor of Education, and Doctor of Philosophy. While no undergraduate majors are offered, the school does offer a number of courses for undergraduates, an undergraduate honors program, and a variety of tutoring programs.

The School of Education is organized into three Program Area Committees: Curriculum Studies and Teacher Education (C&TE); Psychological Studies in Education (PSE); and Social Sciences, Policy, and Educational Practice (SSPEP).

In addition, four cross-area programs are sponsored by faculty from more than one area. These programs include the doctoral Symbolic Systems Program and three master's level programs: the Stanford Teacher Education Program (STEP); the Prospective Principals Program (PPP); and the Learning, Design, and Technology Program (LDT).

These committees and programs function as administrative units that act on admissions, plan course offerings, assign advisers, and determine program requirements. Various subspecialties or concentrations exist

within most of these areas and programs. Faculty members are affiliated primarily with one area but may participate in several programs. While there is a great deal of overlap and interdisciplinary emphasis across areas and programs, students are affiliated with one area committee or program and must meet its degree requirements.

Detailed information about admission and degree requirements, faculty members, and specializations related to these area committees and programs can be found in the publication *School of Education Guide to Graduate Studies* and at <http://www.stanford.edu/dept/SUSE/>.

The School of Education offers an eight-week summer session for admitted students only. The school offers no correspondence or extension courses.

UNDERGRADUATE PROGRAMS

The School of Education focuses on graduate education and research training and does not offer an undergraduate major. However, undergraduate education is of concern to the school, and courses and programs are available to those interested in the field of education. Several courses at the 100 level are especially designed for undergraduates, and some higher-level courses are open to undergraduates. An honors program is available to undergraduates to supplement their regular majors outside the school. In conjunction with the Haas Center and the Undergraduate Advising Center, the school offers a variety of courses for undergraduates interested in developing educationally oriented skills.

HONORS PROGRAM

This program permits interested and able undergraduates at Stanford to build on the training received in their major field of study by pursuing additional courses and a research or practicum project in a related area of education.

Students apply for entry during the junior year. Applications are available at the Dean's office in Cubberley, room 101, or at <http://www.stanford.edu/dept/SUSE/navigation/programsnavfrm.html>. At least one course must be taken from each of the following areas:

1. Educational policy and history in the U.S.: courses include American Education and Public Policy; History of Education in the United States; Children, Civil Rights, and Public Policy in the U.S.; Introduction to the Study of International Comparative Education; History of Higher Education in the U.S.
2. Contemporary problem areas: courses include Urban Youth and their Institutions: Research and Practice; Theory and Issues in the Study of Bilingualism; Education and the Status of Women: Comparative Perspectives; Contemporary Social Issues in Child and Adolescent Development.
3. Foundational disciplines: courses include Social Sciences and Educational Analysis; Problems in Sociology of Education; Problems of Intelligence, Information, and Learning; Introduction to Philosophy of Education.

A directed reading course as well as directed research courses with a faculty member in Education is also required. Students in the program should enroll in the Undergraduate Honors Seminar, 199A,B,C during their senior year.

Near the end of Spring Quarter, successful candidates for honors orally present brief reports of their work and findings at a mini-conference. All honors students in Education are expected to attend this conference.

COTERMINAL DEGREE PROGRAM

The School of Education admits a small number of students from undergraduate departments within the University into a coterminal A.B. and A.M. program. Not all of the four area committees offer coterminal degrees. Students in such a program receive the bachelor's degree in their undergraduate major and the master's degree in Education. Approval of the student's undergraduate department and of the School of Education is required. Undergraduates may apply when they complete 105 units, but no later than the end of the 11th quarter of undergraduate work. Students study for both the bachelor's and master's degrees simultaneously and must complete a total of 15 full-tuition quarters or three full-tu-

tion quarters after completing 180 units toward the undergraduate degree. The number of units required for the A.M. degree depends on the program requirements within the School of Education; the minimum is 36 units.

Applicants may obtain coterminal degree application materials from the School of Education's Academic Services Office. Coterminal applicants may also consult with Graduate Admissions regarding eligibility.

GRADUATE PROGRAMS

Several advanced degree programs are offered by the School of Education and are described below. Requirements vary somewhat across programs. Both University and School of Education requirements must be met for each degree. The University requirements are detailed in the "Graduate Degrees" section of this bulletin. Students are urged to read this section carefully, noting residency, tuition, and registration requirements. A student who wishes to enroll for graduate work in the School of Education must be qualified and admitted to graduate standing by one of the school's area committees.

Complete information about admissions procedures and requirements is available by writing Stanford University Graduate Admissions, Old Union, Room 137, Stanford, CA 94305-3005 or at <http://www.stanford.edu/dept/SUSE/>. The admissions packet includes the publication *School of Education Guide to Graduate Studies*, which outlines degrees, programs, admission and graduation requirements, and research interests of the faculty. All applicants must submit scores from the Graduate Record Examination General Test (verbal, quantitative, and analytical areas); TOEFL scores are also required from those whose first language is not English.

MASTER OF ARTS

The A.M. degree is conferred by the University upon recommendation of the faculty of the School of Education and the University Committee on Graduate Studies. The University residency requirement is three full-tuition quarters of registration as a graduate student at Stanford. The minimum unit requirement is 36 quarter units earned at Stanford as a graduate student. Some programs require as many as 45 units. At least 12 units must be taken for a grade point average (GPA) of 'B' or better, and a minimum of 18 units must be taken in the School of Education. Master's students should obtain detailed program requirements from the master's coordinator, located in Academic Services in the School of Education. No thesis is required to earn a master's degree; however some programs require a final project, paper, or monograph. Additional detailed information regarding entrance and degree requirements is available at <http://www.stanford.edu/dept/SUSE/> and in the *School of Education Guide to Graduate Studies*. Upon admission, each student is assigned a faculty adviser from the appropriate area committee to begin early planning of a coherent program.

Master of Arts degrees are offered for the following specializations (the sponsoring area committee and concentration is listed in parenthesis):

- Art Education (C&TE)
- Dance Education (C&TE)
- English Education (C&TE)
- Evaluation (SSPEP-APA)
- General Curriculum Studies (C&TE)
- International Comparative Education (SSPEP-ICE)
- International Educational Administration and Policy Analysis (SSPEP-ICE)
- Joint Program with Graduate School of Business (SSPEP-APA)
- Learning Design and Technology (Cross-Area)
- Mathematics Education (C&TE)
- Policy Analysis (SSPEP-APA)
- Prospective Principals Program (SSPEP-APA)
- Science Education (C&TE)
- Social Sciences in Education—Interdisciplinary (SSPEP-SSE)*
- Teacher Education (C&TE)

* Within this program, students may pursue interests in gender issues, language, and social science areas represented in SSE.

In addition, an A.M. degree with a teaching or administrative credential is offered in Stanford Teacher Education Program (Cross-Area—STEP).

STANFORD TEACHER EDUCATION PROGRAM (STEP)

STEP offers a Master of Arts program to prepare humanities and sciences college graduates for careers as secondary teachers of English, languages (French, German, Japanese, Spanish), mathematics, science (biology, chemistry, physics), and social studies. To be successful in classrooms with diverse students, STEP helps participants become more aware of their values, more flexible in their teaching and learning styles, and more knowledgeable in their subject matter.

The 12-month STEP year begins in June with a summer quarter of intensive academic preparation and experience in the Stanford Summer Teaching School. During the academic year, students take courses in professional education and academic subjects; they also teach part-time in middle or high schools for the entire public school year. The master's degree and Single Subject (secondary) Teaching Credential require 45 quarter units, taken during four quarters of continuous residency.

Applicants are required to pass the California Basic Educational Test (CBEST), and must demonstrate subject matter competence in one of two ways: (1) by passing the Praxis II and SSAT subject assessment tests in their field, or (2) by completing a California state-approved subject matter preparation program. For further information, contact STEP Academic Services at (650) 723-2110.

STEP also includes the optional California Cultural Language and Academic Development (CLAD) emphasis program. CLAD provides enhanced opportunities for candidates to learn about and work with linguistically and ethnically diverse students. The program focuses on theories of language acquisition, English as a second language methodologies, and development of cross-cultural understanding and appreciation of multicultural diversity. Further information regarding admission requirements, course work, and credential requirements is available at <http://www.stanford.edu/dept/SUSE/> and in the *School of Education Guide to Graduate Studies*.

PROSPECTIVE PRINCIPALS PROGRAM (PPP)

The Prospective Principals Program at Stanford offers the A.M. degree with a specialization in Administration and Policy Analysis, which can be combined with the Preliminary Administrative Services Credential. It enables prospective principals to become leaders and to manage ideas, resources, and themselves to achieve worthwhile educational results for a diverse student population. This is accomplished through three consecutive summers of full-time study and is therefore available to persons working in a school system during the academic year. Teaching experience is a prerequisite for admission to this program. This master's degree requires 45 quarter units. In order to qualify for the credential, three additional quarter units for a total of 48 quarter units, including internship units, are necessary. Additional information regarding admission requirements, course work, and credential requirements is available in the *School of Education Guide to Graduate Studies*.

MASTER OF ARTS IN TEACHING (SUBJECT)

The degree of Master of Arts in Teaching (M.A.T.) is reserved for experienced teachers or individuals who have completed a program of teacher preparation; it is offered in conjunction with a variety of academic departments in the School of Humanities and Sciences. Further details are available from the A.M. programs office in the School of Education.

DOCTORAL DEGREES

The School of Education offers two types of doctoral degrees. The Doctor of Philosophy (Ph.D.) degree is offered by all program area committees. The Doctor of Education (Ed.D.) degree is offered only in the concentrations of Policy Analysis and Higher Education Administration within the area of SSPEP. Both degrees are conferred by the University upon recommendation by the faculty of the School of Education and the University Committee on Graduate Studies. University residency requirements (nine full-tuition quarters or the equivalent), amount of trans-

fer credit applicable (no more than three full quarters), and the timetable for the stages of progress are the same for both degrees. Additionally, the School of Education unit requirement for both degrees is a minimum of 72 units of course work and research completed at Stanford beyond the baccalaureate degree. (If more than 72 are needed to meet particular Program Area requirements, students may transfer up to 36 units of graduate course work taken within the past seven years.)

Students should note carefully that admission to graduate standing by the University to work toward a doctoral degree does not in itself constitute admission to candidacy for the degree. Students must qualify and apply for candidacy by the end of their second year of study and should obtain information about procedures and requirements during their first year.

The two doctoral degrees offered in the School of Education differ in emphasis, purpose, and the intended careers of those who pursue them. They are equivalent with respect to the amount of time required and the rigor and quality of work demanded. In the Ph.D. degree program, there is greater emphasis on theory and research; the emphasis in the Ed.D. program is on informed and critical applications of existing knowledge to educational practice.

The Ph.D. degree is designed for students who are preparing for (1) research work in public school systems or specialized institutions; (2) teaching roles in education in colleges or universities, and research connected with such teaching; or (3) other careers in educational scholarship and research.

The Ed.D. degree is a professional educational degree intended to meet the needs of (1) those who wish a thorough and comprehensive professional understanding of and competence in dealing with educational problems met by administrators, supervisors, and curriculum specialists; and (2) those who wish a scholarly preparation for teaching education in colleges or universities.

Ph.D. students must complete a minor in another discipline taught outside the school, or hold an acceptable master's degree outside the field of education, or complete an approved distributed minor that combines relevant advanced work taken in several disciplines. A minor is not required for the Ed.D.

Upon admission, an adviser assigned from the admitting area committee works with the student to establish an appropriate and individualized course of study, a relevant minor, and project research plans. Other faculty members may also be consulted in this process. Details about the varying administrative and academic requirements for each area committee and the School of Education, along with general time frame expectations, are given at <http://www.stanford.edu/dept/SUSE/> and in the *School of Education Guide to Graduate Studies*. Complete guidelines may be obtained from the specific area committees.

The following doctoral specializations (with their sponsoring area and concentration) are offered:

Administration and Policy Analysis (SSPEP-APA)
 Anthropology of Education (SSPEP-SSE)
 Art Education (C&TE)
 Child and Adolescent Development (PSE)
 Counseling Psychology (PSE)
 Economics of Education (SSPEP-SSE)
 Educational Linguistics (SSPEP-SSE)
 Educational Psychology (PSE)
 English Education (C&TE)
 General Curriculum Studies (C&TE)
 Higher Education (SSPEP-APA)
 History of Education (SSPEP-SSE)
 International and Comparative Education (SSPEP-SSE)
 Joint Degree Program with Graduate School of Business (SSPEP-APA)
 Mathematics Education (C&TE)
 Philosophy of Education (SSPEP-SSE)
 Science Education (C&TE)
 Social Sciences in Education—Interdisciplinary (SSPEP-SSE)
 Social Studies Education (C&TE)
 Sociology of Education (SSPEP-SSE)

Symbolic Systems in Education (Cross-Area)
 Teacher Education (C&TE)

Ph.D. MINOR FOR STUDENTS OUTSIDE EDUCATION

Candidates for the Ph.D. degree in other departments or schools of the University may elect to minor in Education. Requirements include a minimum of 30 quarter units of graduate course work in Education and a clear field of concentration. Students choosing to minor in education should meet with the relevant area chair to determine a suitable course of study early in their program.

COURSES

OTHER DIVISIONS OF THE UNIVERSITY

Teachers, administrators, researchers, and specialists are expected to have substantial knowledge of a variety of academic fields outside the areas encompassed by professional education. Graduate students in the School of Education are, therefore, urged to consider the courses offered in other divisions of the University in planning their programs.

The numbering of courses in the School of Education identifies approximately the course level and the audience to which a given course is offered:

Below 100 level—For undergraduates

100-level—Primarily for undergraduates (graduates may enroll)

200- and 300-level—For A.M. and first- and second-year doctoral students

400-level—Research seminars or similar courses primarily for third-year doctoral students and beyond

Course descriptions are in numerical order and indexed by professional program areas.

An “X” suffix denotes a new experimental course. With faculty approval, after being taught twice, it can be offered as a regular course in the School of Education.

An “S” suffix denotes a special course, given only once and usually taught by visiting faculty.

LEARNING SKILLS

The following courses are offered by the Undergraduate Advising Center (UAC). The UAC provides and coordinates services to help student and adviser work together toward the establishment and accomplishment of the student's academic and personal goals. For detailed description of services and advising resources, see <http://uac-server.stanford.edu/>.

The UAC is on the first floor of Sweet Hall, and is open Monday through Friday 9:00 a.m. to 12:00 noon and 1:00 to 5:00 p.m., telephone: (650) 723-2426.

50. Accelerated Learning—Interactive, providing various methods for approaching difficult concepts which cannot be comprehended even after multiple efforts. The techniques for active learning, making it possible to accelerate the process of conquering difficult concepts while also achieving higher levels of understanding. Learn how to: identify your individual style and channels, practice locating areas of confusion, and formulate workable, individualized approaches.

1 unit, Aut, Spr (Townsend)

51. Self Coaching: Learning Rapidly from Experience—Self-coaching offers students a simple model for learning through experience. It emphasizes the value of awareness, observation, experimentation, and evaluation as a self-reinforcing method for development, growth, and change.

1 unit, Win (Matthies, Worline)

52. Practices in Critical Thinking—Critical thinking is one of the most important skill sets we need to be successful in college and in the workplace across subject areas. It encompasses knowing how to find assumptions, recognize ambiguity, evaluate arguments, and judge the credibility of sources of expert opinion. To think critically in one's daily

life and studies requires being comfortable with questions instead of answers, complexity instead of simplicity, uncertainty instead of certainty. These abilities are developed through practical exercises based on contemporary issues and through practice with texts from a variety of disciplines. Emphasis is on the value of developing a questioning mind and the importance of differentiating between academic and intellectual motivation.

3 units, Sum (Townsend)

53. Working Smarter through Precision Questioning—When life-long reading or classroom work is driven by questions, concentration is better, recall is more complete, motivation improves. Understanding the basic categories of questions and their interrelationships enables us to be more precise, better organized, and more critical. In-class exercises provide incrementally complex question ladders and increase skills in delivering questions and answers.

2 units, Win (Townsend)

54. Reading Faster—Coping with information overload requires speed reading as it traditionally has been defined, and the ability to overview, skim, extract, browse, and navigate through hypertext. To decide what is worth reading, quick and reliable judgments must be made about relevance and credibility. Academic texts, technical manuals, major newspapers, etc.

1 unit, Aut, Spr (Townsend)

55. Think On Your Feet—Learn how to be effective in small group discussions; quickly grasp the point being made, the supporting arguments, and the nature of the responses to arguments on the other side of the question. Increase your capacity for effective teamwork through in-depth, collaborative thinking exercises. Practice presenting your ideas to your peers and colleagues so that you are prepared to take advantage of Stanford's numerous small group courses.

2 units, Win (Townsend)

EDUCATION

95S. Issues in Leadership—Priority given to undergraduates and master's degree students. Basic theories and concepts in leadership and group process. Topics: identification of core values, building shared vision, group problem solving, leadership styles, decision-making, power and influence, conflict management, ethical dilemmas, community building, and personal policy development. Interactive and experiential, and for students currently in leadership positions in the University or who have jobs or volunteer roles where they are working in groups. Enrollment limited to 24. (SSPEP)

3-4 units, Win (Porteus)

102. Culture, Class, and Educational Opportunity—Upward Bound and EPASSA counselors work with students from educationally disadvantaged backgrounds. Topics: language education, culture and family, class management, school finance, and community-school relations. Mandatory school visits and classroom observations. Enrollment limited to 15. (SSPEP)

4 units, Spr (Padilla)

106. Interactive Media in Education—Introduction to the use of interactive media in formal education. Workshop views/uses commercial interactive media for education and analyzes/criticizes them. Ideas are used to interpret/understand the experience of learning with interactive media. (CTE)

3-5 units, Sum (Walker)

107. The Politics of International Cooperation in Education—For undergraduates and master's students; see 306B.

3-4 units, Spr (Mundy)

109X. The Politics of Language Education in California Schools—Controversies surrounding language and educational policies pertaining

to African Americans and English language learners are explored in the wake of legislation that was formulated to restrain curricula for language minority students throughout California. Interdisciplinary studies of language in schools and society are compared to legislation and educational policies within their historical and political contexts.

3-4 units, Win (Baugh)

120. Symbolic Systems Seminar: Problems in Intelligence, Information, and Learning—Interdisciplinary topics in cognitive science, e.g., modularity, representation, reasoning, situated action, or creativity. Prerequisites: Computer Science 109, Linguistics 120 or 130, Philosophy 80, Psychology 40, or consent of instructors.

3 units (Greeno, Wasow) not given 2000-01

130. Introduction to Counseling—The theories and techniques of counseling, emphasizing the clients' individual and cultural differences, and construction of one's own theory of the counseling process and outcome. Two psychotherapeutic theories, cognitive-behavioral and existential-humanistic, are supplemented with a third theory of each student's choice. Experiential, problem-based focus on how to develop self-awareness and conceptual understandings of the counseling process in culturally diverse contexts. (PSE)

3 units (Staff) not given 2000-01

136. World, Societal, and Educational Change: Comparative Perspectives—See 306D. (SSPEP/ICE)

4-5 units (Ramirez) not given 2000-01

137Q. Stanford Introductory Seminar: Conceptualizing Human Motivation—East and West—Preference to sophomores. What motivates behavior? This question is linked to one's view of human nature and of the relationship between individuals and their social worlds. The multiple perspectives on human motivation, including Western psychological traditions and the contemplative spiritual psychologies of the East. Historical and cross-cultural approaches to understanding how different traditions treat motivation. Readings from personality, clinical, and developmental psychology, and from Eastern psycho-spiritual traditions such as Buddhism and yoga. How world views of human nature and development are related to theories of human motivation. Prerequisite: introductory psychology.

3 units, Spr (Roeser)

138Q. Stanford Introductory Seminar: Educational Testing in American Society—Preference to sophomores. Tests are used for college admissions, program evaluation, and educational reform. In the classroom, grades are used to communicate about achievement, and sometimes to reward effort, improvement, or good behavior. Explanations for group and individual differences in test performance have been controversial this century, right up to current debates over affirmative action. The purposes and the logic of various testing programs, including classroom testing, admissions testing, and state and national testing programs. The meanings of reliability, validity, bias, and fairness in testing, developing the notion of validity argument as a conceptual tool for analyzing testing applications. Paper on some educational testing application.

3 units (Haertel) not given 2000-01

141. Race, Education, and the Media—See 241. (SSPEP/APA)

5 units (Carnoy, Steyer) not given 2000-01

149. Theory and Issues in the Study of Bilingualism—For undergraduates; see 249.

3-4 units, Aut (Valdés)

150X. Introduction to Data Analysis and Interpretation—Primarily for master's students. Provides rudimentary data analysis skills with a focus on reading literature and interpreting statistics and statistical models, especially those commonly found in education. Topics: descrip-

tive statistics and displays, simple and multiple regression, contingency tables, t-test, and simple analysis of variance.

4 units, Aut (Porteus)

151X. Introduction to Qualitative Research Methods—Primarily for master's students. Introduces students to issues, leading ideas, and methods in qualitatively-oriented educational research. Check with the relevant instructor for more details of the syllabus.

*4 units, Aut (Fetterman, Pope)
Win (Peshkin)*

155. Development of Measuring Instruments—For students planning to develop written or performance tests or questionnaires for research and evaluation, and for teachers wishing to improve classroom examinations. Planning tests, writing items, item tryout and criticism, qualities desired in tests, and interview techniques. Lectures, case studies, and practical exercises. (PSE)

3 units (Haertel) not given 2000-01

156X. Understanding Racial and Ethnic Identity—African American, Native American, Mexican American, and Asian American racial and ethnic identity development is explored to better understand the influence of social/political and psychological forces in shaping the experience of people of color in the U.S. Issues: the relative salience of race in relationship to other social identity variables, including gender, class, occupational, generational, and regional identifications. Bi- and multiracial identity status, and types of white racial consciousness. GER:4b(DR:3)

5 units (LaFromboise) not given 2000-01

158. Children's Citizenship: Justice across Generations—(Enroll in Political Science 158R.)

5 units (Reich) given 2001-02

160. Introduction to Statistical Methods in Education—(Master's students register for 150X.) Introduction to quantitative methods in educational research for doctoral students with little or no prior statistics. Organization of data, descriptive statistics, elementary methods of inference, hypothesis testing, and confidence intervals. Computer package used. Students cannot also receive credit for Psychology 60, or for Statistics 60 or 160. (All Areas)

4 units, Aut (Hakuta)

161. Statistical Analysis in Educational Research—Primarily for doctoral students. Basic statistical methods for experimental and non-experimental educational research. Topics: analysis of variance methods up to factorial designs; regression methods up to multiple regression; basic methods for analysis of categorical data. Integrated with the use of statistical computer packages. See <http://www.stanford.edu/class/ed161/>. Prerequisite: 160 or consent of instructor. (All Areas)

3 units (Rogosa) not given 2000-01

164X. Developing Academic English: Methods for Teaching ESL in American High School—Introduction to theories and methods for instruction in English as a second language. Broad overview of approaches and methods used in language teaching focusing specifically on practices that can support the development of those language proficiencies needed by non-English-background students in order to succeed in American schools. (CTE-STEP)

2-4 units (Valdes) not given 2000-01

165X. History of Higher Education in the U.S.—(Same as 265X.) Introduction to historical perspectives on the development of higher education. Readings/discussions address the major periods of evolution, emphasizing the mid-19th century. Premise: insights into contemporary higher education can be obtained by examining its antecedents, particularly issues of governance, mission, access, curriculum, and the changing organization of colleges and universities. (SSPEP-APA)

3-5 units, Win (Rothblatt)

166X. Teaching Reading, Writing, and the Language Arts—For STEP students. Focus is on the application of and psychological principles in understanding, assessing, and supporting the reading and writing processes, and the acquisition of literacy, especially in secondary school settings. Key concepts: language acquisition, perception, cognition, motivation, and individual differences. (STEP)

3 units, Sum (Ball)

167X. Educating for Equity and Democracy—Introduction to the theories and practices of equity and democracy in education. How to think about teaching and schooling in new ways; the individual moral and political reasons for becoming a teacher. (STEP)

3 units, Sum (Staff)

170. Gender and Education—The concept of gender in educational contexts, focusing on formal schooling from elementary to graduate education, primarily within the U.S. What gender differences exist, what difference gender makes in various educational settings. Lecture/discussion and group activity formats consider the relationship between gender and education from social science perspectives. The advantages and disadvantages of different kinds of research about gender and education using data that are ethnographic, experimental, historical, statistical, and narrative. (SSPEP)

4 units, Aut (Christopher)

175X. African-American English in Educational Context—See 275.

177X. Education of Immigrant Students: Psychological Perspectives—(Same as 277X.) Historical and contemporary approaches to educating immigrant students. Case study approach focuses on urban centers to demonstrate how stressed urban educational agencies serve immigrants and native-born U.S. students when confronted with overcrowded classrooms, controversy over curriculum, current school reform movements and government policies regarding equal educational opportunity. (SSPEP)

4 units, Win (Padilla)

179. Urban Youth and their Institutions: Research and Practice—(Same as 279.) The determinants and consequences of urban life for youth, emphasizing disciplinary and methodological approaches to the study of policies and practices and the growing gap between the perspectives of state and local organizations and those of youth and their communities. The diversity of urban youth experiences with respect to ethnicity, gender, and immigration histories: case studies illustrate civic-level and grassroots institutions, their structures, networks, and philosophies; historical and contemporary examination of diverse realities of urban youth for policymakers, educators, and researchers. Enrollment limited. Prerequisite: consent of instructor. (SSPEP/APA)

3-4 units, Aut (McLaughlin)

180. Directed Reading in Education—For undergraduates and master's degree students. (All Areas)

1-15 units, any quarter (Staff)

190. Directed Research in Education—For undergraduates and master's degree students. (All Areas)

1-15 units, any quarter (Staff)

192A. Peer Tutor Training—Readings/discussions of videotapes, and individual and group projects. Topics: problem-solving, study skills, effective listening and feedback, cross-cultural sensitivity, and teaching with questions. Short internship required for new tutors.

1 unit, Aut, Spr (Freeman)

192B. Peer Tutoring in Writing—Writing tutors become familiar with the written work of fellow students and learn how to comment on it helpfully. Tutoring skills are developed through listening to experienced tutors; reflecting on our own writing processes; considering sample

writing projects; role-playing tutoring situations; and discussing reading, assignments, and projects.

2 units, Spr (Freeman)

193A. Peer Counseling: Bridge Community—Instruction in peer counseling. Topics: verbal and non-verbal skills, the use of open and closed questions, paraphrasing, working with feelings, summarization, and integration. Lectures, individual training, group exercises, role-play practice with optional video feedback. Sections on the relevance to crisis counseling and student life. Guest speakers from University and community agencies. Students develop and apply skills in a variety of settings in the University.

2 units, Aut, Win (Moreno)

193B. Peer Counseling: Chicano Community—Instruction in basic counseling. Topics: verbal and non-verbal attending and communication skills, the use of open and closed questions, working with feelings, summarization, and integration. Counseling issues that may be salient when working with Chicanos, including the significance and process of Spanish-English code switching in communication, the role of ethnic identity in self-understanding, the relationship of culture to personal development, and the experience of Chicano students in university settings. Lectures, individual training, group exercises, discussion, role-play, and videotape practice.

2 units, Aut (Martinez)

193C. Peer Counseling: The African-American Community—Instruction in peer counseling with Blacks. Topics: the concept of culture, Black cultural attributes and their effect on Blacks' reactions to accepting counseling, verbal and non-verbal attending, the use of open and closed questions, working with feelings, summarization, and integration. Geared toward counseling with Blacks; methods of instruction include reading assignments, lectures, guest speakers, group discussion, role-play, and videotaped practice. Students develop and apply skills in the Black community on campus or in other settings that the student may choose.

2 units, Aut (Edwards, Reed-Hoskins)

193F. Peer Counseling: The Asian American Community—Topics: the Asian family structure, concepts of identity, ethnicity, culture, and racism in terms of their impact on individual development and the counseling process. Emphasis is on the development of an appreciation and empathic understanding of Asians in America. Lectures, readings, discussion, and group exercises.

2 units, Win (Brown)

193N. Peer Counseling in the Native American Community—Instruction in basic counseling techniques. Topics: verbal and non-verbal communication, strategic use of questions, methods of dealing with strong feelings, and conflict resolution. Emphasis is on how basic elements of counseling apply to Native Americans, including client, counselor, and situational variables in counseling, the significance of non-verbal communication, the role of ethnic identity in self-understanding, the relationship of culture to personal development, the impact of family on personal development, gender roles and Native Americans, and the experience of Native American Indian students in university settings. Lectures, individual skill development, group exercises, and role practice.

2 units, Win (Simms, Martinez)

193P. Peer Counseling Practicum—For those who continue to study counseling methods while counseling students.

1-5 units, Aut, Win, Spr (Moreno)

194. Leadership in Academic Advising—Focus is on the skills needed to be an active leader in the academic advising process through the role of Head Advising Associate, taught simultaneously with the HAA selection process through the Undergraduate Advising Center. Student development theory as it applies to the advising process for freshmen and

sophomore students. Workshops, focus groups, guest speakers, role playing, and case studies develop listening and counseling skills, ask critical questions, and learn about group facilitation. Corequisite: students must be applying for the position of Head Advising Associate for 2000-01.

2 units, Aut, Spr (Freeman)

196X. Feminist Theories of Work and Families—(Same as Feminist Studies 102L.) A critical introduction to feminist theories of work, families, and the interactions between the two. The economic, sociological and legal perspectives; mainstream and feminist theories are contrasted. Emphasis is on the present day U.S. with issues in other countries and/or other historical periods. Topics: labor force participation, occupational segregation, labor market discrimination, emotional labor, unpaid work, caring labor, child care, combining work and family, single-parent families, poverty, marriage, and divorce.

4-5 units, Spr (Strober)

197. Education and the Status of Women: Comparative Perspective—Theories and perspectives from the social sciences relevant to understanding the role of education in changing, modifying, or reproducing structures of gender differentiation and hierarchy. Cross-national research on the status of women and its uses to evaluate knowledge claims from varying perspectives. (SSPEP) GER:4c (DR:†)

4-5 units, Win (Wotipka)

199A,B,C. Undergraduate Honors Seminar—Required for all juniors and seniors in the honors program in the School of Education. Supports students' actual involvement and apprenticeships in educational research. Participants are expected to share ongoing work on their honors thesis. Prerequisite: consent of instructor.

1 unit, Aut, Win, Spr (Powell)

200. The Work of Art and the Creation of Mind—Collaboration between the Art, Dance, Drama, and Music programs, and the School of Education examines the relationship between the work of art and the creation of mind, i.e., the work of art as a task of making something and as a form that has been made. The ways a conception of art develops and refines the mind. Discussion, readings, and observation of artists at work. The relationship between forms of art and forms of thought. What does either the perception or creation of art in any of its forms do to how we think and know? (CTE)

4 units, Win (Hannah, Rehm, Ross, Sano)

201. History of Education in the United States—Analysis of selected turning points in education in relation to religion, political socialization, race relations, gender, immigration, and urbanization. Limited enrollment. (SSPEP)

3 units, Aut (Williamson)

201A. History of African American Education through 1940—A survey of pivotal points in African American educational history, including literacy attempts during slavery, the establishment of historically Black colleges and universities, the debate between liberal and vocational education, and Black student rebellions on campuses. (SSPEP)

3 units (Williamson) given 2001-02

201B. Education for Liberation—Focusing on African Americans, investigates how education has been employed to advance group self-determination and autonomy from the 1954 Brown decision to contemporary Afro-centric/African-centered educational initiatives. (SSPEP)

3 units (Williamson) given 2001-02

202. Introduction to Comparative and International Education—Introduction to the field of comparative and international education. Contemporary theoretical debates about educational change and development, and the international dimension of several contemporary issues in education. Emphasis is on the development of students' abilities to

make cross-national and historical comparisons of educational phenomena. (SSPEP/ICE)

4-5 units, Aut (Mundy)

202I. Education Policy Workshop in International and Comparative Education—Project-based workshop for students in International and Comparative Education, providing a practical introduction to key issues in educational policy making, educational planning, implementation, and the role of foreign expertise/consultants in developing country contexts. (SSPEP/ICE)

2-3 units, Aut (Mundy)

203X. Education and Inequality in American Culture—Overview of the cultural production of inequalities in school performance by class, race, ethnicity, gender, and individual style. Students exploring the same themes in small group discussions enroll in 220Y for additional 2 units.

2 units, Aut (McDermott)

203Y. Discussion: Education and Inequality in American Culture—Small group discussions of competition and unequal access in notable American texts. Corequisite: 203X.

2 units, Aut (McDermott)

204. Introduction to Philosophy of Education—Introduces current approaches and techniques in the philosophy of education; material has been selected for its general relevance to students of education. Feminist and radical theories of education. Introductory philosophical material is presented in the context of educational issues. (SSPEP)

3 units, Aut (Callan)

205. Group Counseling—Develops the ability to identify and understand the interpersonal processes in a small group. First-hand experiences simulate group processes that can be examined and conceptualized. Prerequisite: consent of instructor.

1-4 units (Staff) not given 2000-01

206A. Applied Research Methods in International and Comparative Education I: Introduction—Required for all A.M. students in ICE and IEAPA, others by consent of instructor. Orientation to the A.M. program and research project, exploration of resources for study and research. (SSPEP/ICE)

1 unit, Aut (Rhoten)

206B. Applied Research Methods in International and Comparative Education II: The Master's Monograph Proposal—Required for all A.M. students in ICE and IEAPA; others by consent of instructor. Development of research skills through discussion of theoretical and methodological issues in comparative and international education. Preparation of a research proposal for the A.M. monograph. (SSPEP/ICE)

3-5 units, Win (Rhoten)

206C. Applied Research Methods in International and Comparative Education III: Master's Monograph Workshop—The conclusion of the four-quarter A.M. program in ICE and IEAPA, required of all A.M. students. In-depth reviews of students' research in preparation for the completion of their master's monograph. (SSPEP/ICE)

3-5 units, Sum (Rhoten)

208B. Curriculum Construction—The theories and methods of curriculum development and improvement. Topics: curriculum ideologies, perspectives on design, strategies for diverse learners, and the politics of curriculum construction and implementation. Students develop curriculum plans for use in real settings. (CTE)

3 units, Win (Pope)

209X. The Politics of Language Education in California Schools—(Same as 109X.)

3-4 units, Win (Baugh)

210. Problems in Sociology of Education—(Meets with 310; same as Sociology 232/330.) Introduction to sociological approaches to educational phenomena. Topics: school organization and environment, the relationship of education to adult roles, the impact of social class and ethnicity on classroom learning, and the social structure of the classroom. Read/evaluate social sciences research. Short written assignments and individual feedback. (SSPEP)

4 units, Spr (McFarland)

211. Master's Seminar in Social Sciences in Education—Limited to master's students in SSE. Directed, hands-on forum for SSE students to critically examine the process of developing and shaping a research program, integrating it with academic and field experiences, and building relationships beyond the program. Students conceptualize their projects and focus on researchable topics: effective revising and editing, job searches, working with your adviser, "what next?," or a celebration of achievements so far. (SSPEP)

1 unit, Aut, Win, Spr (Christopher)

213. Aesthetic Foundations of Education—What role might the arts play in education? Do the arts contribute to the development of cognitive skills? Do they help humans understand the world in which they live? Are aesthetic considerations central in the way we think about the aims of education? Do they enhance teaching and school organization? (CTE)

4 units, Aut (Ross)

214. Popper, Kuhn, and Lakatos—(Same as Philosophy 156.) Popper, Kuhn, and Lakatos are 20th-century philosophers of science who have raised fundamental issues dealing with the nature of scientific progress: the rationality of change of scientific belief—science vs. non-science; the role of induction in science, truth, or verisimilitude as regulative ideals. Their impact in the social sciences and applied areas such as educational research. (SSPEP)

3 units, Spr (Phillips)

219. Artistic Development of the Child—How can children's and adolescents' development in the arts be described? What role does the symbolic transformation of experience play in the creation of those images we regard as art? What can teachers do to promote the development of artistic thinking? These and other questions are examined through the study of theory and research conducted within the social sciences. (CTE)

4 units (Eisner) not given 2000-01

220A,B,C,D,Y. The Social Sciences and Educational Analysis—Required of students in APA and open to all. Economics, political science, sociology, and history, and their applications to education in the U.S.

220A. The Social Sciences and Educational Analysis: Introduction to the Economics of Education—Overview of the relationship between education and economic analysis. Topics: labor markets for teachers, the economics of child care, the effects of education on earnings and employment, the effects of education on economic growth and distribution of income, and the financing of education. Students who lack training in micro-economics enroll in 220Y for one additional unit of credit. (SSEP/APA)

4 units, Win (Loeb)

220B. Introduction to the Politics of Education—The relationships between political analysis and policy formulation in education; focus is on alternative models of the political process, the nature of interest groups, political strategies, community power, the external environment of organizations, and the implementations of policy. Applications to policy analysis, implementation, and politics of reform are emphasized. Prerequisite: Political Science or Public Policy major, or student in SSPEP. (SSPEP/APA)

4 units, Spr (Kirst)

220C. Education and Society—(Same as Sociology 130.) The effects of schools and schooling on individuals, the stratification system, and

society. Education as socializing individuals and as legitimizing social institutions. The social and individual factors affecting the expansion of schooling, individual educational attainment, and the organizational structure of schooling. (SSPEP/APA) GER:3b (DR:9)

5 units, Win (Meyer)

220D. History of School Reform: Origins, Policies, Outcomes, and Explanations—Restricted to graduate students and undergraduates planning to work on honors theses in education or in directly related areas. Focus is on school reform in the U.S. during the last 50 years. Reform and practice in other nations for comparative purposes. Topics: theories of reform; school choice; academic standards and systemic reform; civil rights issues including racial and social integration, and the education of limited English speaking students; governance approaches; and the implementation of reform. Why and how some school reforms persist, why some fail or fade, and why some recur periodically. Students investigate a particular reform: its sources, policy development and implementation, and the consequences, intended and unintended, using one or more of the analytic frameworks presented. (SSPEP/APA)

4 units, Aut (Smith)

220Y. Introduction to the Economics of Education: Economics Section—Introduction to micro-economics for those taking 220A who have not had micro-economics before or who need a refresher. Corequisite: 220A. (SSPEP/APA)

1-2 unit, Win (Loeb)

221A. Policy Analysis in Education—Major concepts associated with the development, enactment, and execution of social policy. Issues of policy implementation, agenda setting and problem formulation, coalition politics, and intergovernmental relations are examined through case materials and supplementary readings. Objective: identify and understand the factors that affect the ways in which analysts and policymakers learn about the policy system and the ways in which they can influence it. Enrollment limited. Prerequisite: consent of instructor. (SSPEP/APA)

4-5 units, Win (McLaughlin, Darling-Hammond)

221B. Macro and Micro Issues in Policy Analysis—Provides doctoral students an opportunity to analyze the macro- and micro-dimensions of policy issues in education. Students use their own research interests to explore the analytical, empirical, and methodological aspects of these two different perspectives on policy and action.

3 units, Win (McLaughlin, Darling-Hammond)

222. Resource Allocation in Education—Problems of optimization and design, and evaluation of decision experience. Marginal analysis, educational production functions, cost effectiveness and cost-benefit analysis, constrained maximization, program evaluation. Introduction to linear models for large-scale data analysis. Implications to model assumptions. (SSPEP/APA)

4-5 units (Loeb) not given 2000-01

223. Good Schools: Research, Policy, and Practice—Recent studies of schools that exceed expectations in producing desired results. Research methodologies, findings of studies, and efforts to implement results. Components of “good” schools analyzed: effective teaching, principal leadership, organizational processes, parent involvement, cultures in schools, the role of the superintendent. Required project studies a school and determines “goodness.” (SSPEP/APA, CTE)

3-4 units, Aut (Cuban)

224. Information Technology in the Classroom—The use of information technology (computers, interactive video, telecommunications) in classroom teaching. Basic computer operations and terminology; challenges of planning and teaching with technology; judging the merits of products for educational uses; survey of the types of uses made of technology in schools; and economic, social, and ethical issues, emphasizing equity. (CTE)

3 units, Win (Walker)

226. Classroom Assessment—Research on classroom testing; creating and selecting classroom tests; instructional uses of tests, performance tests, classroom observations, linking testing and instruction, using standardized test results. (PSE)

3 units (Haertel) not given 2000-01

228. Research on Reading and Reading Acquisition—For doctoral and master’s students in SSPEP, PSE, CTE, and SSPEP. Focus is on the application of psychological principles in understanding the reading and writing process and the acquisition of literacy in school and non-school settings. Key concepts: psycholinguistics, perception and cognition, motivation, and individual differences. (SSPEP)

3-4 units (Kamil) not given 2000-01

229A,B,C,D. Seminar in Learning Design and Technology—Four-quarter core of the LDT master’s program. Topics: learning, cognition, and development; design principles for technological learning environments; technological literacy and skills; research methods and evaluation; curriculum and content; and organization structure and operation. Students navigate one or more design sequences in learning environments rooted in a practical problem. Topics in learning, design, and technology are examined from a theoretical and a practical application perspective. Readings and hands-on development are a team-collaborative effort. (All Areas)

229A. *3 units, Sum (Walker)*

229B. *3 units, Aut (Walker)*

229C. *3 units, Win (Kamil)*

229D. *3 units, Spr (Barron, Greeno)*

230. Ethnographic and Empowerment Evaluation—The role of ethnography in addressing contemporary and socially significant issues. The value of ethnographic evaluation in educational settings. Successful strategies to effectively communicate qualitative findings with powerful policymaking bodies to improve our world, including testifying on the hill and sharing findings through the media. The role of ethnographic and empowerment evaluation in contributing to organizational transformation. (SSPEP)

5 units, Spr (Fetterman)

231X. Developing and Supporting Teaching—How do teachers learn to teach and what kinds of mentoring and coaching support helps them to develop their practice? Teaching requires the ability to make hundreds of choices and decisions daily. A strong knowledge base and skills of reflective inquiry increase the odds that all students are served in each teacher’s classroom. How is the development of successful teaching supported? What does effective mentoring look like? What are some of the dilemmas and difficulties faced by mentors? The research on adult learning and learning to teach. Skills such as giving productive feedback and co-planning. Methods such as teaching videos, role-plays, reading and discussion of theory, research, and practice concerning mentoring.

3 units, Spr (Darling-Hammond)

232A. Teaching: Questions for Practice, Research, and Policy—How do we define and study teaching? What do teachers need to know, believe, and be able to do? How does teaching vary by subject matter, students, grade level? What is the relationship between teaching and learning? How do teachers learn? The research that has tackled these questions provides students with the chance to think about these and other questions of their own. (CTE)

4 units, Win (Boaler, Grossman)

232B. Introduction to Curriculum—Second of CTE core. What should American schools teach? How should school programs be organized? How can schools determine whether the goals they have formulated have been achieved? What kind of school organization helps teachers improve their teaching practices? Students secure a historical and contemporary perspective on the curriculum of American schools. The interactions among curriculum, the organizational structure of schools, the concep-

tion of the teacher's role, and the ways in which teaching and student learning are assessed. Text, video analysis of teaching, and small group discussions examine competing ideas regarding the content and aims of school programs. (CTE)

4 units, *Aut (Atkin, Kiely)*

232C. Introduction to Learning—Core course in CTE and PSE. The theoretical perspectives and results of research on learning, emphasizing principles that can inform the design and study of learning environments, including teaching and curriculum activities and resources. Issues: the ways of assessing learning, learning by individuals and groups who differ in gender or in cultural and social backgrounds, the generality of learning outcomes, relations between the growth of conceptual understanding and cognitive skill, learning considered as becoming a more effective participant in social practices, and a brief history of the development of currently influential conceptualizations of learning. (CTE, PSE)

4 units, *Spr (Ball, Greeno, Hakuta)*

233A. Counseling Theories and Interventions from a Multicultural Perspective—Review of foundational and new concepts of counseling theory and intervention from a multicultural perspective. The impact of culture on clinical presentation, relationship formation, and intervention development and evaluation in individual and group counseling. (PSE)

3 units (*LaFromboise*) not given 2000-01

233B. Counseling Theories and Interventions from a Multicultural Perspective, Part B—Alternative roles for multicultural counselors build on the foundational skills of individual and group counseling in 233A: adviser, advocate, facilitator of indigenous support systems, facilitator of indigenous healing systems, consultant, change agent, and counselor roles and functions in light of the client's level of acculturation, locus of problem etiology, and goals of helping.

3 units (*LaFromboise*) not given 2000-01

234. Career and Personal Counseling in Culturally Diverse Settings—(Same as Psychology 237.) Methods of integrating career and personal counseling with clients and counselors from differing backgrounds. Practice with selected assessment instruments. Case studies of bicultural role conflict. Informal supervised experience. (PSE)

3 units (*Krumboltz*) not given 2000-01

235. Educational Policy Graduate Seminar—Enrollment limited to policy analysis and evaluation master's students. Three-quarter sequence to explore and discuss policy issues, develop educational technology skills, and prepare for employment. (SSEP/APA)

1 unit, *Aut, Win, Spr (Fetterman)*

236X. Education Technology Policy—Issues in education technology policy in the U.S. and selected other advanced and developing nations for K-12 and post-secondary education. Governmental policies at all levels and policies of local public and private institutions. Policy development and implementation focusing on the incentives for the private sector to become involved in education and in the consequences of the policies for low income populations. (SSPEP)

3 units, *Spr (Smith, Carnoy)*

238A. Orientation to Counseling Psychology—For first-year counseling psychology students. Overview of the counseling psychology profession, including counseling theories, techniques, and assessment. Topics: relationship enhancement, problem conceptualization, goal setting, intervention techniques, and monitoring outcomes. Review of training tapes, role-playing, and supervision of initial counseling experiences. Prerequisite: consent of instructor. (PSE)

3 units (*Krumboltz, LaFromboise*) not given 2000-01

238B. Counseling and Health Psychology: Supervised Applications—For first-year counseling psychology students. Integration of counseling practice with research findings. Continuing review of training tapes,

role-playing, and supervision of counseling experiences. Prerequisite: consent of instructor. (PSE)

3 units (*Krumboltz, LaFromboise*) not given 2000-01

238C. Counseling and Health Psychology: Supervised Applications—For first-year counseling psychology students. Advanced study of counseling theories, techniques, and assessment methods. Emphasis is on the integration of counseling practice within a research framework. Continuing review of training tapes, role-playing, and supervision of counseling experiences. Prerequisite: consent of instructor. (PSE)

3 units (*Krumboltz, LaFromboise*) not given 2000-01

239. Contemporary Social Issues in Child and Adolescent Development—Focuses on critical social and developmental issues that affect children and adolescents. Topics: divorce and single parenting, child care, poverty, sexuality, and mass media, emphasizing the impact of these conditions on normal development, education, and school-related social and cognitive performance. (PSE)

4 units, *Spr (Padilla)*

240. Adolescent Development and Learning—Two presuppositions: that fruitful instruction takes into account the developmental characteristics of learners and the task demands and structure of specific curricula; and that teachers can promote learning and motivation by mediating between the characteristics of students and of the curriculum and the wider social context of the classroom. The strategies and issues involved in this mediational process with secondary students. Prerequisite: STEP student or consent of instructor. (STEP)

3 units, *Aut (Roeser, Padilla)*

241. Race, Education, and the Media—(Same as 141.) In-depth overview of the critical issues and policies that impact race relations and education in our society. Lectures, readings, discussions on the debates on affirmative action, merit, racial inequality, improving educational quality, and how these issues are shaped by a rapidly changing media industry.

5 units (*Carnoy, Steyer*) not given 2000-01

243. Research in Writing and Writing Instruction—Tradition and change in writing research, emphasizing theoretical and pedagogical implications. Topics: formalist, cognitive, and social-contextual approaches; writing and learning; writing/reading connections; writing/speaking connections; the composing process; writing pedagogy; individual research projects. (SSPEP, CTE)

4 units (*Ball*) not given 2000-01

244X. Classroom Management—Beginning and experienced teachers are concerned with how to best manage their classroom. The students' role in managing their classroom. Different strategies are placed within a theoretical framework. The approaches that could be employed when managing classrooms, and student behavior in particular.

1 unit, *Aut, Win (Haysman)*

245X. Seminar in Teacher Education—For doctoral students interested in preparing to become teacher educators or who have interests in policy issues related to teacher education. Directed reading, discussion, and analysis of teacher education program models; new approaches to support teacher learning in the pre-service and in-service contexts; and changes in policies relevant to teacher education. The theoretical frames include adult learning theory, organizational supports for professional learning, and issues of institutional change.

3 units (*Darling-Hammond*) not given 2000-01

246A,B,C,D. Secondary School Teaching Practicum—Preparation and practice in issues and strategies for teaching in classrooms with diverse students. Topics: instruction, curricular planning, classroom interaction processes, portfolio development, teacher professionalism, patterns of school organization, teaching contexts, and government educational policy. Classroom observation and student teaching with

accompanying seminars during each quarter of STEP year. 16 units required for completion of the program. Prerequisite: STEP student. (STEP)

- 246A. 2 units, *Sum (Lotan)*
- 246B. 1-4 units, *Aut (Lotan)*
- 246C. 7-10 units, *Win (Lotan)*
- 246D. 3 units, *Spr (Lotan)*

247. Moral Education—Issues in moral theory and education, including consideration of the Kohlberg-Gilligan debate, character education, and contemporary issues on values and religious education. (SSPEP)
3 units, *Win (Damon)*

249. Theory and Issues in the Study of Bilingualism—For graduate students. Key issues in the study of bilingualism from a sociolinguistic perspective. Emphasis is on typologies of bilingualism, the acquisition of bilingual ability, the description and measurement of bilingualism, and the nature of societal bilingualism. Prepares students to work with bilingual students and their families and to carry out research in bilingual settings. (SSPEP)
3-4 units, *Aut (Valdés)*

250A. Statistical Analysis in Educational Research—Primarily for doctoral students. Regression and categorical models are widely used data-analytic procedures. Topics: basic regression including multiple and curvilinear regression, regression diagnostics, analysis of residuals and model selection, logistic regression, analysis of categorical data. Proficiency with statistical computer packages. Prerequisite: 160 or equivalent. (All Areas)
4 units, *Win (Loeb)*

250B. Statistical Analysis in Educational Research: Analysis of Variance—Sequence, primarily for doctoral students. Analysis of variance models are among the most widely used data analytic procedures, especially in experimental, quasi-experimental, and criterion-group designs. Topics: single-factor ANOVA, the factorial between and within subjects and mixed design ANOVA (fixed, random, and mixed models), analysis of covariance, multiple comparison procedures. Prerequisite: 160X or equivalent. (All Areas)
4 units, *Spr (Ruiz-Primo)*

250C. Statistical Analysis in Educational Research: Multivariate Analysis—Primarily for doctoral students. Advanced regression methods. Multivariate analysis of variance, discriminant analysis, factor analysis, correlation analysis. Data compression: principle components analysis, clustering. Intensive use of computer packages. Prerequisites: 250B, 257, Statistics 200, or equivalent. (All Areas)
4 units, *Aut (Olkin)*

252. Introduction to Test Theory—Concepts of reliability and validity; derivation and use of test scales and norms; mathematical models and procedures for test validation, scoring, and interpretation. Prerequisite: Statistics 190 or equivalent. (PSE)
3-4 units (*Haertel*) not given 2000-01

253X. The Principalsip: Theory and Practice—For those interested in leadership roles in K-12 education, or for those interested in the theory and practice of school administration. Seminar immerses students in a broad study focused on conceptions of the role of the school principal.
4 units, *Spr (Copland)*

257A,B. Statistical Methods for Behavioral and Social Sciences—For students with experience and training in empirical research. Analysis of data from experimental studies through factorial designs, randomized blocks, repeated measures; regression methods through multiple regression, model building, analysis of covariance; categorical data analysis through log-linear models, logistic regression. Integrated with the use of

statistical computing packages. Prerequisite: analysis of variance and regression at the level of Statistics 161.

- 257A. 3 units, *Win (Rogosa)*
- 257B. 3 units, *Spr (Rogosa)*

260X. Popular Advanced Statistical Methods—Overview and implementation of some advanced statistical methods currently popular in educational research. Methods for accommodating the nested structure of much educational data (e.g., students within classrooms within schools) which arise as units of analysis problems, ecological regression, or hierarchical linear models. Methods for complex measurement models in regression settings known as structural equation models, causal models, covariance structures. See <http://www.stanford.edu/class/ed260>.
3 units (*Rogosa*) not given 2000-01

261X. Critical Reading in the Content Areas—Topics: introduction to models of reading, functions of literacy, components of reading instruction, content vs. recreational reading, literacy vs. expository materials, and reading to learn vs. learning to read; text types; testing and assessment; vocabulary and reading instruction; comprehension and background knowledge; study skills and aids; metacognition; strategies; writing and reading instruction; technological applications; affective concerns and motivations. (SSPEP)
3 units, *Spr (Kamil)*

262A,B,C. Curriculum and Instruction in English—Approaches to teaching English in the secondary school, including goals for instruction, teaching techniques, and methods of evaluation
262A. 3 units, *Sum (Grossman)*
262B. 2 units, *Aut (Grossman, Vosovic)*
262C. 2 units, *Win (Grossman, Vosovic)*

263A,B,C. Curriculum and Instruction in Mathematics—The purposes and programs of mathematics in the secondary curriculum; teaching materials, methods. Prerequisite: STEP student or consent of instructor. (STEP)
263A. 3 units, *Sum (Boaler)*
263B. 2 units, *Aut (Boaler)*
263C. 2 units, *Win (Boaler)*

264A,B,C. Curriculum and Instruction in Foreign Languages—Approaches to teaching foreign languages in the secondary school, including goals for instruction, teaching techniques, and methods of evaluation. Prerequisite: STEP student. (STEP)
264A. 3 unit, *Sum (Azevedo)*
264B. 2 unit, *Aut (Azevedo)*
264C. 2 units, *Win (Azevedo)*

265X. History of Higher Education in the U.S.—See 165X.
3-5 units, *Win (Rothblatt)*

267A,B,C. Curriculum and Instruction in Science—Examination of the possible objectives of secondary science teaching and related methods: selection and organization of content and instructional materials; lab and demonstration techniques; evaluation, tests; curricular changes; ties with other subject areas. Prerequisite: STEP student or consent of instructor. (STEP)
267A. 3 unit, *Sum (Atkin)*
267B. 2 unit, *Aut (Schultz)*
267C. 2 units, *Win (Schultz)*

268A,B,C. Curriculum and Instruction in Social Studies—Emphasis is on the methodology of social studies instruction: review of curriculum trends, survey of teaching materials, opportunities to develop teaching and resource units. Prerequisite: STEP student.
268A. 3 unit, *Sum (Cuban)*

268B. 2 unit, Win (Staff)
268C. 2 units, Win (Cuban)

269. Principles of Learning for Teaching—Student learning and the epistemology of school subjects as they relate to the planning and implementation of teaching, the analysis of curriculum, and the evaluation of performance and understanding. Readings and activities are coordinated with internship and the student teaching activities of participants. Prerequisite: STEP student or consent of instructor.

3 units, Win (Darling-Hammond, Greeno)

275. African-American English in Educational Context—The linguistic and cultural conflicts confronting the majority of African-American students. Interdisciplinary research, emphasizing cross-generational educational needs. Ethnographic studies of schools and their students, and the evolution of educational and linguistic research among African Americans. Prerequisite: graduate student, or consent of instructor. (SSPEP)

3 units (Baugh) not given 2000-01

277X. Education of Immigrant Students: Psychological Perspectives—For graduate students; see 177X.

4 units, Win (Padilla)

278. Introduction to Issues in Evaluation—Focus is on the basic literature and major theoretical and practical issues facing the evaluation field. Topics: evaluation as a branch of experimental science, models of evaluation, quantitative and qualitative approaches to evaluation, evaluation as related to decision-making and the political process, and professional standards of evaluation. (SSPEP)

3 units, Win (Porteus)

279. Urban Youth and their Institutions: Research and Practice—For graduate students; see 179X. Enrollment limited, consent of instructor required. (SSPEP/APA)

3-4 units, Aut (McLaughlin)

280. Ethnographic Approaches to Cultural Diversity in Schooling—(Same as Cultural and Social Anthropology 280.) How to learn about culture and to analyze education-relevant situations such as the culturally diverse classroom. The cultural process is approached by acquiring techniques of observation, interview, and interpretation of behavior in context, and soliciting and recording the “native” explanations of their own behavior; developing an internally consistent conceptual structure that orients observation and elicitation productively; and being sensitized to one’s own culture and how it influences perception and interpretation of behavior. Techniques of ethnographic research applicable to the study of schooling are demonstrated and applied in field research projects. Research report or proposal for research. (SSPEP)

4 units, Win (Spindler)

282. Linguistics and the Teaching of English as a Second/Foreign Language—(Enroll in Linguistics 189/289.) (SSPEP)

4-5 units, Win (Hubbard)

283. Attitudes toward Languages and Language Study—With language viewed as an intergroup phenomenon, examines attitudes people hold toward their own and different languages, the bias toward and against speakers of different languages, how personal and societal attitudes affect the study and learning of a foreign or second language. A socio-psychological perspective is used as a central framework to guide the study of attitudes toward language. (SSPEP)

3 units (Padilla) not given 2000-01

284. Teaching in Heterogeneous Classrooms—Teaching in academically and linguistically heterogeneous classrooms requires a repertoire of pedagogical strategies. Focus is on the ways to provide access to intellectually challenging curriculum and equal-status interaction for

students in diverse classrooms. Emphasis is on groupwork, a highly recommended and documented instructional approach, and its cognitive, social, and linguistic benefits for students. How to prepare students for groupwork, equalize participation, design learning tasks that support conceptual understanding, mastery of content and language growth, and assess group products and individual contributions. (STEP)

2-3 units, Aut (Lotan, Schultz)

286A. Second Language Acquisition—For students interested in teaching English as second/foreign language. Second language learning and teaching. Serves as basis of second language pedagogy, preparing STEP students for CLAD certification. (SSPEP, STEP)

3-4 units (Staff) not given 2000-01

286B. Second Language Acquisition Research—Major research findings and theories in second language acquisition. Second language research and theories in formal and informal settings where a second language is learned. (SSPEP)

4 units (Padilla) not given 2000-01

287. Culture and Learning—(Same as Cultural and Social Anthropology 158.) Learning in various institutional settings in the U.S. and around the globe. Learning in families, in schools, on the job, and on the streets. Emphasis is on the cultural organization of success and failure in American schools. Tentative consideration of opportunities for making less inequality. (SSPEP, STEP)

3-4 units, Win (McDermott)

289. Introduction to Linguistics for Educational Researchers—For graduate students with interests in educational research, and who plan to concentrate on language or linguistics. Basic linguistic concepts, complementary surveys of educationally oriented studies that explore quantitative linguistic analyses, qualitative ethno-linguistic analyses, discourse analyses, conversation analyses, and studies of bilingualism. Emphasis is on the linguistic analyses of language minority populations and related educational policies.

4 units, Aut (Baugh)

290. Leadership: Research, Policy, and Practice—Conceptions of leadership that include the classroom, school, district office, and state capitol. The role of complexity; organizational leaders outside of schools past and present, and how that complexity permitted leadership to arise. Case studies. (SSPEP/APA)

3-4 units (Cuban) not given 2000-01

295. Learning and Cognition in Activity—(Same as Psychology 261.) Introduction to the results and methods of research on learning, understanding, reasoning, problem solving, and remembering, considered as aspects of participation in social organized activity. Analyses focus is on the principles of coordination that support cognitive achievements and learning in activity settings in work and school environments.

3 units, Spr (Greeno)

296. Substance Dependence: Assessment, Treatment, and Prevention—Offered at the Menlo Park division of the VA Palo Alto Health Care System; open to graduate students in the social sciences. Survey of prevalence, etiology, and treatment of alcohol and drug-related disorders. Focus is on a developmental perspective and how substance abuse disorders manifest themselves in men and women at different ages from childhood through late adulthood. Various treatment approaches that have been beneficial, e.g., AA, individual and group work, family treatment, and inpatient vs. outpatient care. Required visit to relevant treatment programs during the quarter. (PSE)

3 units, Win (Gallagher-Thompson, Moffett)

297. Research in Second Language Classrooms—Introduction to qualitative research methods in applied linguistics. Review of classroom-based research on second language teaching and learning. Discus-

sion and critique of research methods including classroom observation, interaction analysis, classroom ethnography, interviews and questionnaires, elicitation techniques, and case studies. Individual projects utilize data gathered in second language classrooms. (SSPEP)

3 units (Valdés) not given 2000-01

301. Historiography of American Education—(Same as History 301.) Analysis of the literature of American education history for students doing further work in the field. Weekly colloquium discussions, plus an opportunity to pursue specialized topics in small group tutorial sessions. Limited enrollment. Prerequisite: consent of instructor. (SSPEP)

3-4 units (Williamson) given 2001-02

302X. The Role of Knowledge and Learning in Teaching—Focus is on current literature relevant to the structure of subject matter of instruction in schools, and to the cognitive processes involved as students try to learn material. The implications of the literature on the role of the teacher. (CTE)

3 units (Staff) not given 2000-01

303. Qualitative Inquiry in Education—The ways in which artistically and humanistically based approaches to the study of teaching, classroom life, and schooling can improve the understanding of education. Introduces qualitative methods of inquiry that emphasize literary and other interpretive forms, and new approaches to inquiry in education. A study using methods. (CTE)

4 units, Sum (Eisner)

304. The Philosophical and Educational Thought of John Dewey—Analysis of important works of John Dewey. Readings vary each year. Emphasis may be on his social and moral writings. (SSPEP)

4 units, Aut (Staff)

306A. Education and Economic Development—Introductory analysis of the role of education in economic growth and development. Case material considers development problems in the U.S. and abroad. Discussion sections on the economic aspects of educational development. (SSPEP/ICE)

5 units, Win (Carnoy)

306B. The Politics of International Cooperation in Education—(Same as 107.) Analysis of policies and practices in international cooperation, assistance, and exchange. Emphasis is on the role of international organizations (World Bank, UNESCO, OECD) and the politics of multilateral and bilateral assistance programs. (SSPEP/ICE, APA)

3-4 units, Spr (Mundy)

306C. Culture and Technology—(Same as Cultural and Social Anthropology 285.) Technologies and the ways of learning in specific cultural and social environments. Anthropological perspectives on the rise of information technologies and their relation to 20th-century systems of measurement, modes of thought, and forms of hegemony. Topics: accounting systems, metal, paper, plastic, and electronic currencies, writing systems and literacy, and computerized learning environments. (SSPEP/ICE)

4 units, Spr (McDermott)

306D. World, Societal, and Educational Change: Comparative Perspectives—(Same as Sociology 231.) Analysis of the relations between educational and societal developments from a comparative perspective. Readings on various theoretical perspectives and empirical studies on the structural and cultural sources of educational expansion and differentiation, and on the cultural and structural consequences of educational institutionalization. Research topics: education and nation-building; education, mobility, and equality; education, international organizations, and world culture. (SSPEP/ICE)

4-5 units, Aut (Ramirez)

308. The Analysis of Teaching—Teaching is often considered an art or craft rather than a science. Is this true? Do teachers function as performers? Videotapes of teachers in action serve as a resource for the analysis of teaching. Concepts and methods from the field of criticism provide tools to analyze teaching. Literature in criticism, aesthetics, and qualitative evaluation secures the conceptual tools for the analysis of teaching. (CTE)

4 units (Eisner) not given 2000-01

310. Problems in Sociology of Education—For doctoral and master's students. Meets with 210. Emphasis is on conceptualizing and analyzing applied sociological research in education. Short written assignments, individual feedback, and work with actual research data. (SSPEP)

4 units, Spr (McFarland)

311X. First-Year Doctoral Seminar: Introduction to Research—Introduction to the broad range of methods used in current educational research, focusing on the logical and epistemological, design, and ethical issues. (All Areas)

1-2 units, Aut (Phillips)

Spr (Phillips, Stipek)

312. Interaction Processes in Education—The educational applications of sociological/social psychological theory and research to interaction processes within schools and classrooms. Readings in foundational works by Mead, Schutz, Simmel, and more contemporary works in sociology and education, spanning a variety of empirical settings beyond classrooms, e.g., primate societies, children's games, and work settings. Topics: social processes of influence, role differentiation, identity formation, social mechanisms, and intra/inter-group dynamics of peer relations. Methods for observation and analysis. (SSPEP)

4 units, Aut (McFarland)

313X. Mathematics, Equity, and Situated Learning—The ways in which mathematics intersects with people's lives, the reasons why it is practiced only by the elite few and the potential of situated perspectives for the attainment of equitable practices. Drawing on theories of learning, curriculum, equity, and schooling, students research these and related issues.

3 units (Boaler) not given 2000-01

314. Workshop in Economics of Education—Research by students and faculty engaged in problems in the economics of education. Students must have advanced graduate training in economics theory and methodology and be engaged in research on the topic. (SSPEP)

1-2 units, Aut, Win, Spr (Carnoy)

315X. Vouchers and Choice in Education—The theory and empirical data on issues of educational choice and vouchers in the U.S., Europe, and other countries. Recommended: background in economics. (SSPEP)

3 units (Carnoy) not given 2000-01

316X. Network Methods for the Study of Formal and Informal Organizations—The educational applications of social network analysis. Introduction to social network theory, methods, and research applications in sociology. Network concepts of interactionist (e.g., balance, cohesion, centrality) and structuralist (e.g., structural equivalence, roles, duality) traditions are defined and applied to topics in small groups, social movements, organizations, communities, etc. Students apply these techniques to data on schools and classrooms (i.e., data provided by instructor). (SSPEP)

3 units, Win (McFarland)

321B. Analysis of Social Interaction—Practicum on discourse, interactional, and cultural analysis of videotaped data. Various levels of analysis of interactional data, and the basis on which analytic claims can be founded. The transcription of speech and movement in social interaction, and how to identify the patterns which participants use to display and interpret cultural meanings. The theoretical assumptions hidden in

transcription systems. Prerequisite: first- or second-year graduate student. (SSPEP/ICE)

4 units, Aut (McDermott)

322X. Discourse Analysis in Educational Research—Issues and strategies for studying oral and written discourse as a means for understanding classrooms, students, and teachers, and teaching and learning in the context of school. The forms and functions of oral and written language in the classroom, emphasizing teacher-student and peer interaction, and student-produced texts. Individual projects utilize discourse analytic techniques. Prerequisite: graduate status or consent of instructor. (SSPEP)

5 units (Ball) not given 2000-01

323A. Federal and State Policy: Education and Children—The formulation and improvement of federal and state education and children policies. Key current policy issues and trends in politics. Topics: the Federal role in education and child care. (SSPEP/APA)

3 units, Aut (Kirst)

324X. Emerging Business Opportunities in Education and Training—(Same as Business 345G.) For students in the joint degree program with business and education, and others. A combination of changing market mechanisms and emerging technologies is fueling new opportunities for for-profit education and training organizations. The interaction of firms with the public sector presents special challenges for these organizations. The special roles of public administrators, educators, investors, and technology providers in defining opportunities, challenges, and constraints for education and training firms. Approaches to strategy formation, product development, and operations. Visiting managers and other experts. (SSPEP/APA)

2-4 units, Spr (Kirst)

327A,B,C. The Conduct of Qualitative Inquiry—Integrated, three quarters for doctoral students ready to engage in serious pursuit of research that anticipates, is a pilot study for, or in some significant way feeds into their dissertations. It is not necessary that students have written and received approval for their dissertation study. The experience mirrors most of what any research project entails, and is about the actual conduct of research. All students engage in common research processes from September to June including developing interview questions; interviewing; coding/analyzing, interpreting data; theorizing; and writing up results. Participant-observation as needed. Students should consider this a sequence, with the division into quarters as arbitrary. Preference to students who intend to enroll for all three quarters.

327A. 4 units, Aut (Peshkin)

327B. 4 units, Win (Peshkin)

327C. 4 units, Spr (Peshkin)

331A,B. Administration and Policy Analysis Research Seminar—Limited to first-year APA doctoral students. Introduces the rudiments of problem statements, conceptual frameworks, research design, and critical reviews of literature. (SSPEP/APA)

331A. 3 units, Win (Copland, Antonio)

331B. 3 units, Spr (Copland, Antonio)

333A. Advanced Seminar in Learning Design and Technology: Analyzing Functions and Needs in Learning Environments—Introduction to the theoretical approaches to learning used to analyze learning environments and develop goals for designing resources and activities to support more effective learning practices.

3 units, Sum (Greeno)

333B. Advanced Seminar in Learning Design and Technology: Organizations—How organizational resources, structures, constraints, and possibilities are taken into account in research-based designs for learning in schools and work places. Presentations and discussions by researchers from the Institute for Research on Learning offer an over-

view of current research and development efforts for improving learning in schools and workplaces.

3 units, Win (Goldman)

333C. Advanced Seminar in Learning Design and Technology: Social and Ethical Issues—Readings/discussions, case studies, and internships on the ethical and social issues related to learning and technology. Prerequisite: enrollment in LDT, or consent of instructor.

3 units (Kamil) not given 2000-01

335X. Language Policy and Planning: National and International Perspectives—For graduate students and undergraduates, with consent of instructor. International study of the social, political, and educational tensions that shape language policy. Emphasis is on language education that affects immigrants, guest workers, and indigenous linguistic minority populations; policies that determine foreign language instruction, and U.S. language policies in a comparative approach. (SSPEP)

3 units, Spr (Valdés)

338A,B,C. Practicum in Counseling and Health Psychology—For Counseling Psychology majors only. Intensive supervised field experience in local schools or social agencies. (PSE)

338A. 1-6 units, Aut (LaFromboise, Krumboltz)

338B. 1-6 units, Win (LaFromboise, Krumboltz)

338C. 1-6 units, Spr (LaFromboise, Krumboltz)

340X. American Indian Mental Health and Education—Western medicine tends to define health by first defining sickness, disease, or pathology, and then defining health as the absence of these diseases. Native American cultures understood health to mean the balance or beauty of all things physical, spiritual, emotional, and social. Sickness was something out of balance, the absence of harmony. Representative topics in American Indian psychology and health acquaint students with issues that characterize the field, its methods, goals, and findings. Prerequisite: experience working with American Indian communities. (PSE)

3 units, Spr (LaFromboise)

341. Educational Applications of Sociolinguistics—For students interested in the broad applications of linguistic research in educational contexts. Formal integration of sociolinguistics and applied linguistic research is examined in relation to a range of international case studies among students and teachers in socially stratified speech communities worldwide. Theoretical concepts from linguistics are introduced as they relate to practical educational problems in socially stratified speech communities. Recommended: background in linguistic science for students who seek an introduction to applied linguistic research. (SSPEP)

3 units, Win (Baugh)

343X. Achievement Motivation in School-Aged Children—Surveys developments in the study of achievement motivation in children and adolescents over the past 50 years. The historical and theoretical approaches to understanding the quality, intensity, and direction of children's achievement-related behavior. Clinical life-span theories, cognitive theories, and social-cognitive theories of achievement motivation. Differences among mechanistic, organismic, and developmental-contextual metamodels of motivation, qualitative vs. quantitative conceptualizations of "motivation," and the differential emphasis placed upon organismic needs, cognition, volition, and emotion in theories concerned with understanding achievement behavior. (PSE)

3 units (Roeser) not given 2000-01

344X. Child Development and Schooling—School represents a major context of development during childhood in the U.S. How the practices and activities of schooling influence the social, emotional, and cognitive development of children. Meta-theoretical approaches (e.g., mechanistic, organismic, developmental contextualist metamodels) and methods of conducting research on schooling and development (experimental,

survey, ethnographic, intervention, etc.). Topics: how different teaching practices influence cognitive growth in academic domains, how the organizational structures of schools (grade related transitions, class organizations, etc.) fit (or fail to fit) developmental needs, how friendship groups create contexts for learning and can lead to different trajectories of development, and how grading and other evaluative practices influence motivational orientations. Focuses on the elementary school years (see also 345X). (PSE)

3 units, Spr (Barron)

345X. Adolescent Development and Schooling—School represents a major context of development during adolescence in the U.S. How the context of school and its relationship to other major context developments (family, peer group, and neighborhood) influence the social, emotional, and cognitive development of secondary school-aged youths. Metatheoretical approaches (e.g., mechanistic, organismic, developmental contextualist metamodels) and methods of conducting research on schooling and development (laboratory, survey, ethnographic, intervention, etc.). Topics: school transitions during adolescence, the role of school functioning in broader patterns of competence or distress, and how the organization of academic tasks, classrooms, and school environments as a whole can influence different aspects of adolescent development. Focuses on the middle and high school years (see also 344X). (PSE)

3 units, Win (Roeser)

346. Research Seminar in Higher Education—Required for higher education students. Overview of higher education in the U.S. and an introduction to the major issues that have emerged in the research about higher education. The current structural features of the system and the historical context that shaped it, informed by a range of theoretical frameworks. The purposes of higher education in light of different interest groups: students, faculty, administrators, and external constituents. Diversity, stratification, decentralization, and change that cut across each of these groups. (SSPEP/APA)

4 units, Aut (Antonio)

347X. Economics of Higher Education—Key economic issues in American higher education in the contemporary period. Topics: the “worth” of college and graduate degrees and the utilization of highly educated graduates; faculty labor markets, careers, and workload; costs and pricing; discounting, merit aid and access to higher education; sponsored research; academic medical centers; and technology and productivity. Emphasis is on theoretical frameworks and policy matters, exploring the concept of higher education as a public good. Stratification by gender, race and social class.

4 units, Spr (Strober)

350A. Psychological Studies in Education—Required of first-year doctoral students in Psychological Studies; others by consent of instructor. Introduction to the doctoral program in Psychological Studies in Education and to faculty and student research. (PSE)

1 unit, Aut (Barron, Padilla)

350B,C,D. Research Practicum in Psychological Studies in Education—Three-quarter sequence provides students in PSE an opportunity to engage in all facets of the research process. Individual projects in a group context provide extensive opportunities for training and feedback concerning specific projects and the general enterprise of psychological research in education. 350B and C are required of first-year students in PSE; 350D is required of second-year students in PSE. Others by consent of instructor. (PSE)

350B. *3 units, Win (Greeno, Krumboltz)*

350C. *3 units, Spr (Rogosa, Roeser)*

350D. *1 unit, Aut, Win, Spr (Hakuta, Roeser)*

351. Design and Analysis of Longitudinal Research—The analysis of longitudinal data is central to empirical research on learning and devel-

opment. Topics: growth models, measurement of change, repeated measures design, quasi-experiments, structural regression models, reciprocal effects, analysis of durations including survival analysis. See <http://www.stanford.edu/class/ed351/>. Prerequisite: statistical training at the level of 257. (PSE)

3 units (Rogosa) not given 2000-01

353A. Problems in Measurement: Item Response Theory—Survey of the alternative mathematical models used in test construction, analysis, and equating. Emphasis is on applications of item response theory (latent trait theory) to measurement problems, including estimation of item parameters and person abilities, test construction and scoring, tailored testing, mastery testing, vertical and horizontal test equating, and detection of item bias. Prerequisites: 252 and 257, or Psychology 248 and 252, or equivalent. (PSE)

3 units (Haertel) not given 2000-01

353C. Problems in Measurement: Generalizability Theory—Theory and application of generalizability theory to the analysis of educational achievement data, including performance assessments. Fundamental concepts, computer programs, and actual applications. (PSE)

3 units (Haertel) not given 2000-01

353D. Problems in Measurement: Standard Setting—Cut scores on achievement tests define categories like “pass” and “fail” or “advanced,” “proficient,” “basic,” and “below basic.” The measurement field is divided concerning the validity of some methods used for establishing such cut scores. The substantive and statistical issues in the theory and practice of standard setting: widely used methods, case studies, and critiques. Prerequisites: 160 or Statistics 160, or equivalent; 252 or equivalent.

3 units (Haertel) not given 2000-01

359A,B,C,D. Research in Science and Mathematics Education—Participants gain familiarity with research in science education, with references to mathematics education and other school subjects as appropriate. Historical and international perspectives; emphasis is on trends and issues in contemporary American research and policy. Seminars offer an opportunity to develop and discuss dissertation plans, but are not limited to those students. (CTE)

359A. Assessment and Evaluation

2-3 units (Atkin) not given 2000-01

359B. Instruction

2-3 units (Boaler, Atkin) not given 2000-01

359C. Curriculum

2-3 units, Win (Atkin, Boaler, Black)

359D. Teacher Education

2-3 units (Staff) not given 2000-01

360X. Action Research in Education—Introduction to the theory and practice of action research. Basic concepts and methods. The historical and ideological influences on this form of inquiry by teachers. Participants analyze action research reports and engage in a small-scale action-research project. (CTE)

3 units (Atkin) not given 2000-01

361. The Economics of Gender in Education and Employment—Policy issues concerning higher education, employment, earnings, discrimination, occupational segregation, housework, childcare, affirmative action, comparable worth, and feminist economics. (SSPEP)

3 units (Strober) not given 2000-01

364X. Reading in a Second Language—Examination of the theories and research related to learning to read in a second language in child and adult learning contexts. The similarities and differences between first- and second-language theories and research on learning to read. Applications of research findings to pedagogy. (SSPEP)

3 units (Kamil) not given 2000-01

366X. Trends and Issues in Reading—Current trends and issues in literacy and literacy instruction, providing a framework for work in reading and literacy. Research, theory, and implications for practice in classroom organization, compensatory instruction, comprehension instruction, reading and writing assessment, second language reading, whole language emergent literacy, adult literacy, and technology. (SSPEP)
3 units, Aut (Kamil)

367X. Reading Research Syntheses, Policy, and Practice—Examines the national syntheses of reading research beginning with “The Great Debate” (1967) and concluding with the National Reading Panel (2000). These reports are often the basis of recommendations for parents, administrators, and teachers, and have been the foundation of policy for curricular reform. Students engage in a critical examination of these reports, interpretations, and commentaries, comparing the conclusions and recommendations with those derived from the original research upon which they were based.
3 units (Kamil) not given 2000-01

372. Social Processes in Learning and Development—Doctoral seminar on how children’s learning and development are influenced by social interactions with parents, peers, teachers, and the larger cultural context. Emphasis is on research that illuminates the social/cognitive processes thought to influence the development of individual thinking: observation and imitation of models, co-construction of meaning and achievement of intersubjectivity, providing and receiving explanations, and socio-cognitive conflict. How the larger social culture influences the behavior of individuals in interaction and how forms of school culture influence children’s individual thinking and thinking in collaboration with others. (PSE)
3 units, Win (Barron)

374A,B. Research Workshop: Commercialization of Knowledge—Research workshop on key factors that shape processes of transferring basic knowledge into commercial development. Topics: the sociology and economics of science, intellectual property and patenting issues, university-industry relations, cross-national differences in knowledge transfer and science/technology policy, and entrepreneurial activity in universities. Students are expected to either have or to develop research projects on these topics.
2-3 units, Aut, Win (Powell)

375A. Seminar on Organization Theory—(Same as Sociology 363A.) For doctoral-level students or equivalent, providing a thorough grounding in the social science literature on organizations. Readings are organized historically, and introduce the major theoretical traditions and debates in organization theory.
5 units, Aut (Powell)

375B. Seminar on Organizations: Theory and Application—(Same as Sociology 363B.) Continuation of Sociology 363A. The current research on organizational change, drawing on institutional, network, and evolutionary perspectives. Focus is on recent empirical studies that analyze organizational/institutional/political change.
5 units, Win (Powell)

376. Education and Theories of the State—Examines the relationship between political system structures and educational change by analyzing theories and interpretations of how political systems function, and the implications of these theories for understanding education. Classical and Marxist interpretations. (SSPEP/ICE)
5 units (Carnoy) not given 2000-01

377X. Comparing Institutional Forms—Public, Private, and Non-profit—Assesses whether there is growing convergence across sectors. Focus is on education, health care, day care, the arts, social service, and research. (SSPEP)
4 units (Powell) not given 2000-01

378X. Topics in Organizational Adaptation—Research seminar focusing on theoretical ideas about decision making and learning in organizations. (SSPEP)
2-5 units (March) not given 2000-01

380. Supervised Internship
1-15 units, any quarter (Staff)

381. Multicultural Issues in Higher Education—Reviews the primary social, educational, and political issues that have surfaced in American higher education due to the rapid demographic changes occurring since the early 1980s. Research efforts and the policy debates include multicultural communities, the campus racial climate, and student development; affirmative action in college admissions; multiculturalism and the curriculum; and multiculturalism and scholarship.
4 units (Antonio) not given 2000-01

382X. Student Development and the Study of College Impact—Introduces the philosophies, theories, and methods that undergrid the bulk of the research in higher education: how college affects students. Student development theories and models of college impact; issues surrounding data collection, national databases, and secondary data analysis.
4 units, Win (Antonio)

383X. Higher Education Research Practicum—Required of first-year doctoral students in higher education. Seminar. Students obtain familiarity with a range of research specializations in the study of higher education.
2 units (Antonio) not given 2000-01

384. Advanced Topics in Higher Education—Preference given to higher education graduate students. In-depth analysis of selected topics in the study of higher education. Topics vary each year among faculty: development, legal issues, curricular change, knowledge production, professional socialization, management of organizational decline, leadership and innovation, authority and power, diversity and equity, interactions with government and industry. Prerequisites: 346, consent of instructor. (SSPEP/APA)
4 units (Gumport) not given 2000-01

385. The American College Student: Implications for Research and Practice—Open to juniors and seniors with consent of instructor. The nature, culture, and development of the American college student. The American college student from a contemporary perspective, focusing on the question of: who goes to college, what kinds of experiences do students have in college, and how are students affected by their experiences in college?
4 units (White) not given 2000-01

386X. Leadership and Administration in Higher Education—For students who wish to gain a greater insight regarding the management of colleges and universities, and the issues faced by those who hold major leadership roles within these institutions. Definitions of leadership and leadership roles within colleges and universities. Leadership models and organizational concepts useful in understanding institutions of higher education through case study analysis of the problems and challenges facing today’s higher education administrators.
4 units, Win (White)

387A,B,C. Workshop: Comparative Studies of Educational and Political Systems—(Same as Sociology 311A,B,C.) Analysis of quantitative and longitudinal data on national educational systems and political structures. Prerequisite: consent of instructor. (SSPEP/ICE)
387A. 2-5 units, Aut (Ramirez)
387B. 2-5 units, Win (Meyer)
387C. 2-5 units, Spr (Meyer)

388A,B. Bilingual Education—Research issues of policy and practice, particularly in the U.S., in programs for language minority students. Topics: the history of policy and legislation in bilingual education, theories of second language learning and first language maintenance, research on the effectiveness of bilingual education, and comparative experiences in other societal settings. (SSPEP, STEP)

388A.—Prepares STEP students for CLAD certification.

3-4 units, Spr (Hakuta)

388B.—For SSPEP students.

3 units, Win (Hakuta)

400X. Writing Seminar for Doctoral Students—For doctoral students to improve scholarly writing; an experience in the process of revision. Topics: the power of lead sentences, strong verbs, telling titles, organization, proper conclusions, and as needed, the quotidian matters of spelling, grammar, and hyphenation. Students submit a fully revised version of their paper as a final product.

2 units (Peshkin) not given 2000-01

401. Mini Courses in Methodology—For doctoral students Particular issues during designated quarters. Enrollment limited. Prerequisite: consent of instructor.

1-2 units (Staff) not given 2000-01

405. Education and Political Change—Introductory analysis of the relations between education and social and political change from a comparative perspective. Topics: different theoretical approaches to the study of education and politics, questions of legitimacy in educational policy, international factors in educational development, the politics of educational planning and reform, processes and conditions of political learning, and the politics of curriculum and pedagogy. (SSEP/ICE)

4-5 units (Mundy) not given 2000-01

408. Research Workshop in International and Comparative Education—Limited to advanced doctoral students in ICE and SSPEP. Research workshop for the review of key issues in the methodology and epistemology of social research in education, research proposals, and findings by students and faculty. Prerequisites: 306A,B,C,D or equivalents. (SSPEP/ICE)

2-5 units, Win (Carnoy)

410. Topics in Symbolic Systems in Education—For students in all areas. Topics in the interdisciplinary study of intelligence, information, meaning, and learning, emphasizing research relevant to educational practice. Research perspectives from anthropology, artificial intelligence, linguistics, philosophy, and psychology. (PSE)

1 unit, Aut, Win, Spr (Greeno)

412X. Setting Priorities, Standards and Policies in Education Research—Review of current research and classic papers on the psycholinguistics and sociolinguistics of bilingualism. (PSE)

3 units (Hakuta) not given 2000-01

416. Seminar on Aptitude—Limited to doctoral students in education and psychology. The study of individual differences in learning, cognitive, connotative, and affective processes related to education. The design and evaluation of instruction with respect to individual differences. Prerequisites: 255 or equivalent, and consent of instructor. (PSE)

3 units (Staff) not given 2000-01

418. Foundations of Field Research in Higher Education—For higher education/APA graduate students, and appropriate for doctoral students working on qualifying papers or dissertations. Advanced seminar examines the rationales for doing interpretive social science research in higher education settings. Students acquire methodological training in fieldwork through hands-on opportunities to collect, analyze, and critique

case study data obtained from interviews, observation, and document analysis. Prerequisites: 346, consent of instructor. (SSPEP/APA)

3-5 units (Christopher) not given 2000-01

420A,B,C. Advanced Seminar in Philosophy of Education—Particular issues during designated quarters. Enrollment limited; sign up with instructor prior to beginning of quarter. (SSPEP)

420A. *3 units, Aut (Callan)*

420B. *1-3 units (Phillips) not given 2000-01*

420C. *1-3 units (Callan) not given 2000-01*

422A,B,C. Practicum for School Principals—The major tasks and related activities of principals. Uses a training approach that is problem rather than discipline based and provides for a substantial degree of self-directed learning by students under the guidance of professors and practicing principals. (SSPEP/APA)

6 units, Sum (Copland)

423A. Introduction to Research Design: Educational Administration and Policy Analysis—Preference to APA doctoral students working on their sixth-quarter qualifying paper. Focus is on the key issues in conceptualizing and designing research in the social sciences. (SSPEP/APA)

3-5 units, Win (Gumport, Smith)

425X. Advanced Seminar: Federal Educational Policy—Limited to doctoral students. Focus is on policy trends, dilemmas, and issues in Federal education policy over the past 40 years. Issues of federal purpose and role, centralization and decentralization, equality and quality, civil rights, evaluation and research, and the implementation of federal programs. Early childhood, K-12 and post-secondary education. Requires a significant and potentially publishable analysis of a federal policy or practice. (SSPEP/APA)

3 units, Win (Smith)

430A. Advanced Seminar in Childhood and Adolescent Development—Limited to advanced doctoral students in PSE and others with a strong background in developmental psychology, and offered in conjunction with the doctoral training seminar at the Center on Adolescence. In-depth readings/discussions about the developmental processes that account for adaptation (or non-adaptation) in interpersonal models of social and personality development. Selected research on topics that are drawing attention in the field at the present time. Emphasis is on contemporary frameworks for understanding social and personality development. Prerequisite: consent of instructor.

3 units, Aut (Damon)

431. Doctoral Seminar: Counseling and Health Psychology—Analysis of professional problems. May be repeated for credit. Prerequisites: doctoral candidates in counseling psychology, consent of instructor. (PSE)

1-3 units, Aut, Win, Spr (LaFromboise, Krumboltz)

435X. Research Seminar in Applied Linguistics—For graduate students in the schools of Education, and Humanities and Sciences, who are engaged in research pertaining to various applied linguistic topics in original research. Topics: language policies and planning, language and gender, writing and critical thinking, foreign language education, and social applications of linguistic science. (SSPEP)

1-4 units, Spr (Baugh)

444X. Research in Progress: Curriculum and Teacher Education—Required of first- and second-year doctoral students in CTE. Introduction to current research in the Curriculum and Teacher Education area. Weekly presentations of research planned, under way, or ready to be reported on some aspect of curriculum and teacher education by SUSE faculty, SUSE masters' or doctoral candidates, and faculty from else-

where in the University or Bay Area. Questions and discussion of conceptual and methodological issues. (CTE)

1 unit, Aut (Atkin)

Win (Peshkin)

Spr (Ball)

460. Advanced Seminar in Evaluation Design—Three quarters; for A.M. Policy Analysis and Evaluation students in the evaluation track. Discussion about evaluation issues, including the significance of multidisciplinary teamwork, design issues, negotiation, interpersonal skills, and ethics. (SSPEP/APA)

1 unit, Aut, Spr (Fetterman)

453. Doctoral Dissertation—For doctoral students only. (All Areas)

1-15 units, any quarter (Staff)

461X. Schooling and Mental Health Issues—Between 12-30% of all school-aged children experience moderate to severe emotional/behavioral difficulties. Many never receive services either within or outside of school to redress these difficulties, and untreated emotional/behavioral problems often undermine the affected children's ability to learn, and their teachers' ability to effectively teach. The theoretical/empirical, practical, and methodologic goals.

4 units (Roeser) not given 2000-01

466. Doctoral Seminar in Curriculum—Required of all doctoral students in CTE. The research and scholarship related to the CTE program at Stanford, acquainting students with the field, student research activities, and the kinds of problems they believe important in the field. All CTE faculty, other Stanford faculty, and outside speakers participate. Major problems in the field and the ways these are addressed by current investigators. (CTE)

2-4 units, Win (Atkin, Walker)

470. Practicum—For advanced graduate students. (All Areas)

1-15 units, any quarter (Staff)

470E. Practicum in Evaluation—Students participate in or conduct an evaluation. Topics of current interest in the area of educational evaluation. Prerequisite: student member of the Evaluation Consortium.

1-15 units, any quarter (Staff)

480. Directed Reading—For advanced graduate students. (All Areas)

1-15 units, any quarter (Staff)

490. Directed Research—For advanced graduate students. (All Areas)

1-15 units, any quarter (Staff)

493A. Seminar on Methodological Problems in Educational Research—Discussion of topics of current methodological interest. Practicum in consulting on actual projects being carried out by faculty and students.

1-3 units (Olkin) not given 2000-01

493B. Statistical Methods for Meta-Analysis—(Same as Health Research and Policy 206, Statistics 211.) Meta-analysis is a quantitative method for combining the results of independent studies, and enables researchers to synthesize the results of related studies so that the combined weight of evidence can be considered and applied. Examples from the medical, behavioral, and social sciences. Topics: literature search, publication and selection bias, statistical methods (contingency tables, cumulative methods, sensitivity analyses, non-parametric methods). Project. Prerequisite: basic sequence in statistics. (All Areas)

3 units, not given 2000-01

