Special Education

The Doctoral Program in Special Education, offered jointly with San Francisco State University, culminates in a PhD degree. The joint program draws on the strengths of both universities in developing leaders and researchers in the field of atypical development and learning.

Students select an area of academic specialization in both special and general education. Faculty and program resources on the two campuses are used to develop advanced knowledge of theory and research in an area of exceptionality. Specializations include human development; early childhood, language and literacy; mathematics, science, and technology; educational policy and administration; and other areas selected by students in consultation with faculty advisers. In the program, students develop three areas of emphasis or specialization.

Courses are taken on both university campuses, and faculty are drawn from both institutions.

Admission to the University

Minimum Requirements for Admission

The following minimum requirements apply to all graduate programs and will be verified by the Graduate Division:

1. A bachelor’s degree or recognized equivalent from an accredited institution;
2. A grade point average of B or better (3.0);
3. If the applicant comes from a country or political entity (e.g., Quebec) where English is not the official language, adequate proficiency in English to do graduate work, as evidenced by a TOEFL score of at least 90 on the iBT test, 570 on the paper-and-pencil test, or an IELTS Band score of at least 7 on a 9-point scale (note that individual programs may set higher levels for any of these); and
4. Sufficient undergraduate training to do graduate work in the given field.

Applicants Who Already Hold a Graduate Degree

The Graduate Council views academic degrees not as vocational training certificates, but as evidence of broad training in research methods, independent study, and articulation of learning. Therefore, applicants who already have academic graduate degrees should be able to pursue new subject matter at an advanced level without need to enroll in a related or similar graduate program.

Programs may consider students for an additional academic master’s or professional master’s degree only if the additional degree is in a distinctly different field.

Applicants admitted to a doctoral program that requires a master’s degree to be earned at Berkeley as a prerequisite (even though the applicant already has a master’s degree from another institution in the same or a closely allied field of study) will be permitted to undertake the second master’s degree, despite the overlap in field.

The Graduate Division will admit students for a second doctoral degree only if they meet the following guidelines:

1. Applicants with doctoral degrees may be admitted for an additional doctoral degree only if that degree program is in a general area of knowledge distinctly different from the field in which they earned their original degree. For example, a physics PhD could be admitted to a doctoral degree program in music or history; however, a student with a doctoral degree in mathematics would not be permitted to add a PhD in statistics.
2. Applicants who hold the PhD degree may be admitted to a professional doctorate or professional master’s degree program if there is no duplication of training involved.

Applicants may apply only to one single degree program or one concurrent degree program per admission cycle.

Required Documents for Applications

1. Transcripts: Applicants may upload unofficial transcripts with your application for the departmental initial review. If the applicant is admitted, then official transcripts of all college-level work will be required. Official transcripts must be in sealed envelopes as issued by the school(s) attended. If you have attended Berkeley, upload your unofficial transcript with your application for the departmental initial review. If you are admitted, an official transcript with evidence of degree conferral will not be required.

2. Letters of recommendation: Applicants may request online letters of recommendation through the online application system. Hard copies of recommendation letters must be sent directly to the program, not the Graduate Division.

3. Evidence of English language proficiency: All applicants from countries or political entities in which the official language is not English are required to submit official evidence of English language proficiency. This applies to applicants from Bangladesh, Burma, Nepal, India, Pakistan, Latin America, the Middle East, the People’s Republic of China, Taiwan, Japan, Korea, Southeast Asia, most European countries, and Quebec (Canada). However, applicants who, at the time of application, have already completed at least one year of full-time academic course work with grades of B or better at a US university may submit an official transcript from the US university to fulfill this requirement. The following courses will not fulfill this requirement:
   • courses of a non-academic nature.
   • courses that will be completed after the application is submitted,
   • courses conducted in a language other than English,
   • courses in English as a Second Language,
   • courses of a non-academic nature.

If applicants have previously been denied admission to Berkeley on the basis of their English language proficiency, they must submit new test scores that meet the current minimum from one of the standardized tests. Official TOEFL score reports must be sent directly from Educational Test Services (ETS). The institution code for Berkeley is 4833. Official IELTS score reports must be mailed directly to our office from British Council. TOEFL and IELTS score reports are only valid for two years.

Where to Apply

Visit the Berkeley Graduate Division application page (http://grad.berkeley.edu/admissions/apply).

Curriculum

Courses Required

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>Human Development and Education Seminar</td>
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<td>EDUC 200A</td>
<td>Culture and Cognitive Development: Theoretical Perspectives</td>
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EDUC 275B Data Analysis in Educational Research II 4
EDUC 275L Educational Data Analysis Laboratory II 1
EDUC 293A Data Analysis in Education Research 4
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EDUC 299 Special Study and Research 1-12

Courses Required at SFSU
SPED 902: Seminar in Program Development
SPED 903: Research in Special Education: Program Design and Analysis
SPED 905: University-level Teaching Internship (RECOMMENDED, not required).
SPED 907: Learning and Development: The Influence of Disabilities
SPED 908: Directed Special Study Topics
SPED 909: Current Issues in Special Education Policy and Practice

Additional Courses per Area of Study (Concentrations)
Areas of Study: Early Childhood Special Education; Communicative Disorders; Deaf/Hard of Hearing; Mild/Moderate Disabilities; Autism Spectrum; Moderate Severe Disabilities; Physical Disabilities & Augmentative & Alternative Communication; Visual Impairment; Orientation & Mobility

3 Areas of Specialization required within the Area of Study requiring 3 UCB Graduate courses (or 9 semester units) per each area of specialization as approved by adviser

Foundational courses (SFSU) approved by adviser for Area of Study as needed per possible individual student background deficiencies

Special Education

Expand all course descriptions [+]
Collapse all course descriptions [-]

EDUC 200A Culture and Cognitive Development: Theoretical Perspectives 3 Units
Terms offered: Fall 2016, Fall 2015, Spring 2015
The seminar explores Piaget's and Vygotsky's seminal frameworks for the analysis of cognitive development and recent extensions of their work. A focus will be on culture and its representation in treatments of cognition.

Culture and Cognitive Development: Theoretical Perspectives: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Saxe

Culture and Cognitive Development: Theoretical Perspectives: Read Less [-]

EDUC 200B Social Development 3 Units
Terms offered: Spring 2015, Spring 2013, Spring 2012
An examination of theory and research on social development from childhood to early adulthood. Review of different theoretical orientations to social cognition, morality, psychosexual development, and the role of social-environmental factors.

Social Development: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Turiel

Social Development: Read Less [-]

EDUC 200C Culture and Cognitive Development 3 Units
Terms offered: Fall 2012, Fall 2011, Fall 2010
This course explores advanced topic in Piaget's and Vygotsky's frameworks for the analysis of cognition development. Of particular concern is the representation of cultural processes in each treatment. Reading will include primary sources from these authors and contemporary writers who extend and critique the treatment of culture in each.

Culture and Cognitive Development: Read More [+]

Rules & Requirements

Prerequisites: 200A and consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Saxe

Culture and Cognitive Development: Read Less [-]
EDUC 200D Psychosocial Development:  
Identity, Culture, and Education 3 Units  
**Terms offered:** Fall 2017, Fall 2016, Fall 2014  
This course is a doctoral seminar in developmental psychology, with a broad focus on psychosocial development and its impact on children in educational contexts. The course begins with a discussion of Erikson's psychosocial theory and the sociocultural perspectives of Vygotsky and other theorists. We then review some of the major psychosocial variables related to educational achievement, including competence, motivation, self-concept, self-efficacy, self-regulation, and volition. We touch briefly on moral development and values as psychosocial factors affecting correlates. We examine (a) how social and personal identity factors are used to explain underachievement (e.g., cultural ecological theory and stereotype threat), (b) the role of identity in different cultural groups, (c) the impact of these factors on teacher and student behavior, and (d) the role that identity plays in helping students develop a sense of future.

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EDUC 200G Socialization Processes within the Family 3 Units  
**Terms offered:** Prior to 2007  
This course provides an overview of theoretical perspectives on family socialization. We review the empirical literature on child-rearing practices and their relationship to children's socioemotional development. We also examine family beliefs and routines in the context of culture and social class. Students in the course write a literature review on a family socialization topic of their choice.

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EDUC 200H Cognitive Development: Neo Vygotskian Approaches 3 Units  
**Terms offered:** Prior to 2007  
This seminar explores interpretations, extensions, and reformulations of Vygotsky's writings on cognitive development. The seminar will consider Vygotsky's books, Thought and Language and Mind in Society, and also read scholars who build on Vygotsky's seminal ideas--these including his students, like Luria and Leontiev, as well as contemporary writers. A focus throughout the seminar will be on activity-oriented treatments of cognition that incorporate social and historical processes.

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EDUC 201A Psychology of Reading 3 Units  
**Terms offered:** Spring 2011, Spring 2010, Spring 2009  
Comparison and analysis of the psychological and linguistic evidence underlying whole language and skills methods of reading instruction. Topics include reading readiness, emergent literacy, the English spelling system and decoding, vocabulary development, models of reading, individual differences, and comprehension and schema theory.

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EDUC 201B Seminars in Intellectual Development 2 Units
Terms offered: Spring 2017, Fall 2016, Spring 2016
Intensive examination of advanced topics, which will vary from year to year in the areas denoted by the titles of the following sections: # (1) Cognitive Development # (2) Learning and Memory Development # (3) Language.
Seminars in Intellectual Development: Read More [+]
Rules & Requirements
Prerequisites: Relevant courses from the 200 sequence and consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Cunningham or Gearhart
Seminars in Intellectual Development: Read Less [-]

EDUC 202A Development of Elementary Numerical Understandings 3 Units
Terms offered: Spring 2017
The seminar examines seminal and contemporary conceptual and empirical literature on the development of elementary mathematical understandings. Key themes will include: (a) children's developing mathematical understandings; (b) children's developing use of varied representational forms in problem solving (number lines, area models, discrete models); (c) children's and adults' participation in varied in-and-out-of-school collective practices that support mathematical thinking.
Development of Elementary Numerical Understandings: Read More [+]
Rules & Requirements
Prerequisites: EDUC 200A or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Saxe
Development of Elementary Numerical Understandings: Read Less [-]

EDUC 202C Socialization Processes within the Family 3 Units
Terms offered: Prior to 2007
This course provides an overview of theoretical perspectives on family socialization. We review the empirical literature on child-rearing practices and their relationship to children's socioemotional development. We also examine family beliefs and routines in the context of culture and social class. Students in the course write a literature review on a family socialization topic of their choice.
Socialization Processes within the Family: Read More [+]
Rules & Requirements
Prerequisites: Graduate student standing
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Holloway
Socialization Processes within the Family: Read Less [-]

EDUC 202D Seminars in Social and Personality Development 2 Units
Terms offered: Spring 2019, Fall 2017, Spring 2017
Intensive examination of advanced topics, which will vary from year to year in the areas denoted by the titles of the following sections: # (1) Social Development # (2) Motivation # (3) Personality Development.
Seminars in Social and Personality Development: Read More [+]
Rules & Requirements
Prerequisites: Relevant courses from the 200 sequence and consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Turiel
Seminars in Social and Personality Development: Read Less [-]
EDUC 204C Research Seminars: Inquiry in Educational Psychology 3 Units
Terms offered: Spring 2019, Spring 2018, Fall 2017
The doctoral program in Educational Psychology requires that students complete extensive projects of documentary and empirical research. As they engage in these projects, students will enroll (ordinarily during alternate years) in appropriate sections of this seminar. At each meeting, participants will present their own projects, and analyze those presented by others.
Research Seminars: Inquiry in Educational Psychology: Read More [+]  
Rules & Requirements
Prerequisites: Consent of instructor  
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Worrell
Research Seminars: Inquiry in Educational Psychology: Read Less [-]

EDUC 205 Instruction and Development 3 Units
Terms offered: Spring 2016, Spring 2015, Spring 2014
Examination of cognitive developmental approaches and their implication to instruction. Review of different learning theories that frame current issues of instructional design, teaching, and motivation, in relationship to educational equity and teacher learning/development.
Instruction and Development: Read More [+]  
Rules & Requirements
Prerequisites: Consent of instructor  
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Murata
Instruction and Development: Read Less [-]

EDUC 207B Individual Appraisal of Intelligence 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Theories of intelligence as applied to the assessment of intelligence, measurement concepts applied to intelligence tests, development, administration and interpretation of the WISC-R, Stanford-Binet, and other issues pertaining to intelligence testing. Current controversial issues in testing, including issues pertaining to test bias and legal aspects of testing.
Individual Appraisal of Intelligence: Read More [+]  
Rules & Requirements
Prerequisites: Consent of instructor  
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 6 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Individual Appraisal of Intelligence: Read Less [-]

EDUC 207C Diagnosis of Human Handicaps 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Reviews current criteria for eligibility for programs for the handicapped and evaluates available procedures for making diagnostic decisions. Special topics may include diagnosis of learning disabilities, mental retardation, neurological handicaps, emotional and behavioral disorders.
Diagnosis of Human Handicaps: Read More [+]  
Rules & Requirements
Prerequisites: Consent of instructor  
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 6 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Diagnosis of Human Handicaps: Read Less [-]
EDUC 207D Assessment and Education of Exceptional Pupils in Regular Classes 2 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Methods for assessment of handicapped children and implication for their education in regular classes. Such topics as nondiscriminating testing, least restrictive environments, alternative programs, parent communication, interpersonal relationships, characteristics, behavior of exceptional pupils are covered in studies of individual exceptional children in regular classes.
Assessment and Education of Exceptional Pupils in Regular Classes: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Summer: 8 weeks - 4 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.

EDUC 211A Development, Learning, and Instruction in Cultural Contexts 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
Introduction to theories of human development and their application to elementary and preschool education. Topics include cognitive development, moral and social development, language acquisition, psycho-social perspectives on social-emotional development and a developmental analysis of classroom organization. Also supervised child study, individual and small group tutoring, and field experiences.
Development, Learning, and Instruction in Cultural Contexts: Read More [+]

Rules & Requirements
Prerequisites: Admission to Developmental Teacher Education program or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 5 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Gearhart

EDUC 211B Social and Emotional Development 3 Units
Terms offered: Summer 2015 10 Week Session, Summer 2013 10 Week Session, Summer 2011 10 Week Session
Introduction to theories of human development and their application to elementary and preschool education. Topics include cognitive development, moral and social development, language acquisition, psycho-social perspectives on social-emotional development and a developmental analysis of classroom organization. Also supervised child study, individual and small group tutoring, and field experiences.
Social and Emotional Development: Read More [+]

Rules & Requirements
Prerequisites: Admission to Developmental Teacher Education program or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 5 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Gearhart

EDUC 211C Advanced Human Development and Education 4 Units
Terms offered: Spring 2012, Fall 2010, Fall 2009
Advanced principles of human development and their application to teaching and learning school subjects. Also supervised child study, individual and small group tutoring, field experiences.
Advanced Human Development and Education: Read More [+]

Rules & Requirements
Prerequisites: Admission to Developmental Teacher Education Program or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Saxe

Advanced Human Development and Education: Read Less [-]
EDUC 211D Advanced Human Development and Education 4 Units
Terms offered: Spring 2011, Spring 2010, Spring 2009
Advanced principles of human development and their application to teaching and learning school subjects. Also supervised child study, individual and small group tutoring, field experiences. Advanced Human Development and Education: Read More [+]
Rules & Requirements
Prerequisites: Admission to Developmental Teacher Education Program or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Saxe
Advanced Human Development and Education: Read Less [-]

EDUC 212 Adolescent Development and the Teaching of Secondary English 3 Units
This graduate seminar relates the goals of secondary English teaching to three major themes in the study of adolescent development: rationality, morality, and identity. These themes are then explored with reference to urban youth, along with other themes emerging from research in urban settings. The theme of identity is pursued further through a consideration of adolescents' "self-theories" and their motivational consequences. Students write papers on related topics for a class anthology. Adolescent Development and the Teaching of Secondary English: Read More [+]
Rules & Requirements
Prerequisites: Enrollment in the Multicultural Urban Secondary English Teaching Credential Program
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 6 weeks - 8 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Ammon
Adolescent Development and the Teaching of Secondary English: Read Less [-]

EDUC 213A Theoretical and Scientific Bases for School Psychology, Part I: Childhood 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Historical and contemporary overview of the professional specialty of school psychology. Examines the empirical evidence for developmental and learning models in relation to the school curriculum and school organization for birth through pre-adolescence. Theoretical and Scientific Bases for School Psychology, Part I: Childhood: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 3 hours of fieldwork per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Perry
Theoretical and Scientific Bases for School Psychology, Part I: Childhood: Read Less [-]

EDUC 213B Theoretical and Scientific Bases for School Psychology, Part II: Adolescence 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Historical and contemporary overview of the professional specialty of school psychology. Examines the empirical evidence for developmental and learning models in relation to the school curriculum and school organization for birth through pre-adolescence. Theoretical and Scientific Bases for School Psychology, Part II: Adolescence: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 3 hours of fieldwork per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Donohue
Theoretical and Scientific Bases for School Psychology, Part II: Adolescence: Read Less [-]
EDUC 213C School-Based Consultation 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Theories of consultation, consultation methods, and research on consultation applicable to primary and secondary prevention of school failure and school psychology practice.
School-Based Consultation: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Worrell

School-Based Consultation: Read Less [-]

EDUC 213D Educational Interventions for the School Psychologist 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Theories and procedures for individual and group assessment of children's learning and behavior problems as applied to the design of individual and group programs in the classroom.
Educational Interventions for the School Psychologist: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Worrell

Educational Interventions for the School Psychologist: Read Less [-]

EDUC 213L Laboratory for School Psychology 1 Unit
Terms offered: Spring 2019, Fall 2018, Spring 2018
Laboratory section to evaluate field work records and for supervision of school assignment. Must be taken concurrently with 213A-213B-213C-213D.
Laboratory for School Psychology: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 1 hour of discussion and 6 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Instructor: Holloway

Laboratory for School Psychology: Read Less [-]

EDUC 214 Human Development and Education Seminar 1 Unit
Terms offered: Fall 2017, Fall 2016, Fall 2015
Introduction to the field of human development for first year doctoral students.
Human Development and Education Seminar: Read More [+]

Rules & Requirements
Prerequisites: Graduate standing and consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1.5 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Instructor: Holloway

Human Development and Education Seminar: Read Less [-]

EDUC 215 Socialization Processes Within the Family 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
This course provides an overview of theoretical perspectives on family socialization. We review the literature on parental beliefs and child-rearing practices and study how families affect children's social development. We also examine families in the context of culture and social class. The course concludes by focusing on the relationship between families and schools. Course requirements: class participation, three short papers, reaction notebook.
Socialization Processes Within the Family: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Holloway

Socialization Processes Within the Family: Read Less [-]
EDUC 221A Towards Ambitious Instruction in Mathematics: Research Into Practice 3 Units
Terms offered: Fall 2012, Fall 2011, Fall 2010
In this course, students learn to turn mathematics education research into practice through the vehicle of lesson design. Students work in collaborative teams consisting of one beginning mathematics teacher in a teaching credential program and one or more doctoral student researchers. Together each team is responsible for designing, justifying, implementing, researching, and re-designing a lesson that seeks to embody one key aspect of the teacher's vision of effective mathematics instruction.

Towards Ambitious Instruction in Mathematics: Research Into Practice: Read More [+]

Rules & Requirements

Prerequisites: Graduate standing or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Education/Graduate

Grading: Letter grade.

Instructor: Engle

Towards Ambitious Instruction in Mathematics: Research Into Practice: Read Less [-]

EDUC 221C Scientific Cognition: Development, Learning, and Instructional Design 3 Units
Terms offered: Spring 2010
Examination of the relation between development, learning, and instruction of scientific cognition, from the perspective of the cognitive developmental and cognition and instruction research literatures. The course project takes the form of the design, implementation and microgenetic analysis of a short-term educational design experiment. Emphasis on K-8.

Scientific Cognition: Development, Learning, and Instructional Design: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Education/Graduate

Grading: Letter grade.

Instructor: Metz

Scientific Cognition: Development, Learning, and Instructional Design: Read Less [-]

EDUC 222C Design-Based Research Forum 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
A design-build-implement-analyze-theorize-publicize practicum forum for participants to first learn about design-based educational research work and receive support in their original and on-going projects. Following several orientation weeks, in which we discuss fundamental resources and participate in hands-on activities, subsequent readings are customized to individual students. The course culminates with presentations, and students submit an empirical research paper.

Design-Based Research Forum: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate

Grading: Letter grade.

Instructor: Abrahamson

Design-Based Research Forum: Read Less [-]

EDUC 223B Special Problems in Mathematics, Science and Technology Education 2 - 6 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Study of special problems and issues in education related to mathematics, science and technology. Sections may vary from semester to semester.

Special Problems in Mathematics, Science and Technology Education: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit with instructor consent.

Hours & Format

Fall and/or spring: 15 weeks - 2-6 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate

Grading: Letter grade.

Instructor: Metz

Special Problems in Mathematics, Science and Technology Education: Read Less [-]
EDUC 224A Mathematical Thinking and Problem Solving 3 Units
Terms offered: Fall 2017, Fall 2015, Fall 2013
This course explores contemporary research on mathematical cognition, with a particular emphasis on "higher order thinking skills" and mathematical problem solving. We discuss various frameworks for characterizing mathematical behavior and various methodologies for examining it. As an "action oriented" course in the EMST curricular sequence, this course includes a major course project. In their project, students engage in research incorporating the main ideas studied in the course.
Mathematical Thinking and Problem Solving: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Schoenfeld
Mathematical Thinking and Problem Solving: Read Less [-]

EDUC 224B Paradigmatic Didactical Mathematical Problematic Situations 3 Units
Terms offered: Fall 2018, Fall 2016, Fall 2014
Paradigmatic Didactical Mathematical Problematic Situations are contexts for collaborative inquiry into the practice, epistemology, and pedagogy of mathematics. Building on the Learning Sciences literature, the course creates opportunities for students to engage in interesting mathematical problems from secondary-school content. Final projects include design, implementation, and analysis of a lesson. Meets the "Discipline" programmatic requirement of graduate students in EMST and MACSME.
Paradigmatic Didactical Mathematical Problematic Situations: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Abrahamson
Paradigmatic Didactical Mathematical Problematic Situations: Read Less [-]

EDUC 224C Gender, Mathematics and Science 3 Units
Terms offered: Spring 2017, Spring 2013, Spring 2009
The course explores commonly asked questions concerning gender, mathematics, and science. We will discuss whether these are appropriate questions and examine evidence related to the questions. This course will also consider whether policies and practices concerning gender, mathematics, and science should be changed and, if so, identify some of the steps that could be taken to improve the current situation.
Gender, Mathematics and Science: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Linn
Gender, Mathematics and Science: Read Less [-]

EDUC 224D Survey of Current Research and Issues in Mathematics Education 3 Units
Terms offered: Fall 2013, Spring 2013, Spring 2012
This course builds foundational knowledge of important contemporary issues and research in mathematics education. The seminar is designed around readings, discussion, and course activities aimed at developing a comprehensive grounding in the literature on current research and innovations in mathematics education as well as historical debates surrounding student achievement, curriculum, teaching practice, and teacher preparation.
Survey of Current Research and Issues in Mathematics Education: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Suad-Bakari
Survey of Current Research and Issues in Mathematics Education: Read Less [-]
EDUC 226 Constructive Epistemology 3 Units
Terms offered: Fall 2012, Fall 2010, Fall 2008
Many approaches to education take the knowledge to be taught as fixed, and the manipulable objects to be things like methods. By focusing on knowledge per se: what is it; how is it organized and encoded in humans, we are led to questions about what should be taught, based on principles of learnability, etc., rather than just "effective methods." This tactic is valuable in view of the radical changes information technology may have on what we need to teach and what general areas are teachable.

Constructive Epistemology: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: diSessa

Constructive Epistemology: Read Less [-]

EDUC 228A Qualitative Methodology 3 Units
Terms offered: Spring 2016, Spring 2015, Spring 2014
The course will be organized by principal activities: group readings, book reports, expert and novice methodology presentations, in-class research and analysis, and student research. For each activity, we will look at the full breadth of methodology, from "how-to" methods and specific areas of concern to general questions including: what constitutes objective data, what are strengths and weaknesses of methods in regard to various issues, and what are the relations between theory and data?

Qualitative Methodology: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructors: Metz, Saxe

Qualitative Methodology: Read Less [-]

EDUC 229D Discourse and Learning in Math and Science Classrooms 3 Units
Terms offered: Spring 2016, Fall 2015, Spring 2015
This seminar is an introduction to research on how language and other forms of communication influence what and how people learn. Students are introduced to influential theories of discourse from sociolinguistics, psycholinguistics, and the philosophy of language and learn about how they have been used to understand learning, especially in math and science classrooms. Students take turns helping lead discussion and complete a project relevant to the topic and their own research interests.

Discourse and Learning in Math and Science Classrooms: Read More [+]

Rules & Requirements
Prerequisites: Graduate standing, or advanced major in Linguistics, Cognitive Science, or related field with consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Engle

Discourse and Learning in Math and Science Classrooms: Read Less [-]

EDUC 229F Conceptual Change 3 Units
Terms offered: Fall 2014, Fall 2013, Fall 2011
"Conceptual change" concerns broad and deep changes in a person's knowledge about a domain. This opposes it, for example, to the learning of facts and skill acquisition. The course emphasizes recent cognitive science-oriented approaches to: defining "broad and deep" learning; understanding its properties. It draws on diverse other approaches including developmental psychology; analogies to the history of science; "misconceptions;" computational and epistemological approaches.

Conceptual Change: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: di Sessa

Conceptual Change: Read Less [-]
EDUC C229A Proseminar: Problem Solving and Understanding 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2016, Fall 2013
Students will examine problem solving in children and adults, from a predominantly cognitive science perspective, beginning with an examination of thinking involved in diverse problem types. Students will then analyze the literature concerning cognitive issues that transcend problem types, including representation, "understanding," access and availability of knowledge, access to one's own cognitive processing, categorization, the architecture of knowledge, and the control of cognition.

Rules & Requirements
Prerequisites: Consent of instructor

EDUC 231 STEM Teaching Methods in Curriculum and Instruction 4 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
MACSME Methods in Curriculum and Instruction is a core course in the two-year MACSME program. MACSME students take the class in both their first and second years, creating opportunities to consider issues related to curriculum and instruction that are central to the development of their own teaching practice in a structured and supported environment over time. The teaching methods course will use the Teaching for Robust Understanding framework (TRU) to explore issues of teaching and learning through five dimensions: core math and science content; cognitive demand; access and equity; student identity and agency; and formative assessment.

Rules & Requirements
Prerequisites: Admission to a credential program
Repeat rules: Course may be repeated for credit without restriction.

EDUC 231A Teaching, Learning and Equity I 3 Units
Terms offered: Summer 2018 8 Week Session
This is the introductory course for all students in the BE3 teacher education program, and provides a foundation for the topics and field-based experiences within the program.

Rules & Requirements
Prerequisites: Admission to the BE3 Program
EDUC 231B Teaching, Learning and Equity II
3 Units
Terms offered: Fall 2018
This course promotes understanding of equitable approaches to teaching and learning in the context of public education in California as well as our nation. It focuses on conceptual frameworks and pedagogical/curricular strategies that enable students’ social-emotional and moral growth as well as positive identity development. We also explore how historical, structural, cultural, economic, and political considerations facilitate or create challenges to students’ productive growth and development.

Teaching, Learning and Equity II: Read More [+]

Rules & Requirements
Prerequisites: Admission to the BE3 Programs

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructors: Mahiri, Nucci

Teaching, Learning and Equity II: Read Less [-]

EDUC 231C Teaching, Learning and Equity III
3 Units
Terms offered: Spring 2019
This course promotes understanding of equitable approaches to teaching and learning in the context of public education in California as well as our nation. It explores policy and practice that promote or restrict students’ access to an equitable education. It also focuses on conceptual frameworks and pedagogical/curricular strategies that support the creation of inclusive educational spaces. A main goal of this course is to support educators develop a knowledge base about key policies that have shaped (and continue to shape) the outcomes of students in K-12. The course also provides opportunities for the examination and recognition of our own values and dispositions and how they might influence teaching and learning.

Teaching, Learning and Equity III: Read More [+]

Rules & Requirements
Prerequisites: Admission to BE3 program

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Catterson

Teaching, Learning and Equity III: Read Less [-]

EDUC 234 Reading and Writing at the Secondary Level: Critical Literacy in the Disciplines
3 Units
Terms offered: Fall 2018
In keeping with the BE3 program’s mission of equity and excellence, this course will use a critical literacy framework to evaluate reading and writing instructional approaches in math, science, and English language arts. Course discussions and assignments will be centered in Janks’ (2010) book Literacy and Power. Students will also read, discuss, and produce discipline-specific texts related to each dimension of Janks’ framework: domination, diversity, access, and design.

Reading and Writing at the Secondary Level: Critical Literacy in the Disciplines: Read More [+]

Rules & Requirements
Prerequisites: Admission to the BE3 Programs

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Philip

Reading and Writing at the Secondary Level: Critical Literacy in the Disciplines: Read Less [-]

EDUC 235 Elementary Teaching in Mathematics and Science
3 Units
Terms offered: Spring 2010, Spring 2009, Spring 2008
Curriculum, instructional theory, and methods for teaching mathematics and science in elementary schools.

Elementary Teaching in Mathematics and Science: Read More [+]

Rules & Requirements
Prerequisites: Admission to Developmental Teacher Education Program or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Catterson

Elementary Teaching in Mathematics and Science: Read Less [-]
EDUC 236 Teacher Inquiry Portfolio Development 1 Unit
Terms offered: Spring 2019
The Teacher Inquiry Portfolio seminar will support teacher inquiry in BE3 coursework. Each semester will target specific inquiry strategies. Candidates will mine the range of their teacher education experiences to construct electronic portfolios, exploring a common theme or issue, as rooted in problems of practice. The seminar is repeated fall and spring.
Teacher Inquiry Portfolio Development: Read More [+]
Rules & Requirements
Prerequisites: Admission to the BE3 Program
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1 hour of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructors: Salasin, Disston, Lai, Philip
Teacher Inquiry Portfolio Development: Read Less [-]

EDUC 236A Science Education for Elementary School Children 2 Units
Terms offered: Summer 2013 10 Week Session
This course examines how to effectively teach science to elementary school children through analyses of what it means to think scientifically, the goals of science instruction, the nature of children’s scientific reasoning and its relation to instructional opportunities, critical study and revision of different curricula, and examination of excellent instruction.
Science Education for Elementary School Children: Read More [+]
Rules & Requirements
Prerequisites: Admission to Developmental Teacher Education program
Hours & Format
Summer: 8 weeks - 4 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Metz
Science Education for Elementary School Children: Read Less [-]

EDUC 236B Elementary Teaching in Mathematics 3 Units
Terms offered: Fall 2018, Spring 2018, Spring 2017
This course is designed to strengthen methods for students’ mathematical development. Students will gain facility with methods that support the learning of children with diverse instructional needs. The course emphasizes an inquiry-based approach that includes the use of rich problems, appropriate tools and representations, various discourse formats, and ongoing assessment.
Elementary Teaching in Mathematics: Read More [+]
Rules & Requirements
Prerequisites: 211A, 236A, and 390C
Hours & Format
Fall and/or spring: 15 weeks - 1 hour of lecture and 2 hours of discussion per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Gearhart
Elementary Teaching in Mathematics: Read Less [-]

EDUC 237 Foundations for Teaching Language Arts 2 Units
Terms offered: Not yet offered
Lectures and workshops on curriculum, instructional theory, and methods for teaching language arts in elementary schools. Incorporates competencies for Reading Instruction Competency Assessment (RICA) and for teaching children whose primary language is not English.
Foundations for Teaching Language Arts: Read More [+]
Rules & Requirements
Prerequisites: Admission to Teaching Credential Program
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 4 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Pearson
Formerly known as: Education 149
Foundations for Teaching Language Arts: Read Less [-]
EDUC 238 Foundations for Teaching Reading in Grades K-8 2 - 3 Units
Terms offered: Not yet offered
Introduction to reading and writing instruction in elementary school settings, basic literacy skills, instructional methods and approaches, assessment procedures, and reading and writing theories.
Foundations for Teaching Reading in Grades K-8: Read More [+]
Rules & Requirements
Prerequisites: Admission to a teaching credential program (summer session excluded)
Hours & Format
Fall and/or spring: 15 weeks - 2-3 hours of lecture and 2-3 hours of fieldwork per week
Summer: 6 weeks - 6-8 hours of lecture and 6-8 hours of fieldwork per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Cunningham
Formerly known as: Education 158
Foundations for Teaching Reading in Grades K-8: Read Less [-]
EDUC 239 Foundations for Teaching Social Studies 2 Units
Terms offered: Spring 2019
Lectures and workshops on curriculum, instructional theory, and methods for teaching social studies methods in elementary schools.
Foundations for Teaching Social Studies: Read More [+]
Rules & Requirements
Prerequisites: Admission to a teaching credential program
Hours & Format
Fall and/or spring: 10 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Formerly known as: Education 160
Foundations for Teaching Social Studies: Read Less [-]
EDUC 240A Language Study for Educators 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
This course will introduce students to the broad areas of language study and explore the implications of such study for teaching and learning. Among course topics are: the nature of language, the meanings of "grammar," the varieties of English, the development of language in the preschool and school years. This course will be required for all Ed.D. students and recommended as an introductory course to all students who have had no formal coursework in linguistics.
Language Study for Educators: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 6 weeks - 8 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Baquedano-Lopez
Language Study for Educators: Read Less [-]
EDUC 240B Theoretical Issues in the Study of Literacy 3 Units
Students will review trends in literacy theory, and then will examine current theories of written language acquisition and literacy learning. Connections will be made between research, theory, and practice.
Theoretical Issues in the Study of Literacy: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructors: Hull, Mahiri
Formerly known as: 242
Theoretical Issues in the Study of Literacy: Read Less [-]
EDUC 240C Issues in First and Second Language Acquisition 3 Units
Terms offered: Spring 2014, Spring 2011, Fall 2010
This course deals with issues related to language learning and development in school-age children. How do they acquire the language skills needed for literacy and academic development? How do children make the transition from home to school language use? How do children learn a second language? What happens when learning a second language results in the loss of the first language? We will consider the educational, social and cognitive implications of these issues.

Issues in First and Second Language Acquisition: Read More [+]

Rules & Requirements
Prerequisites: Course in linguistics or language acquisition

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Formerly known as: 254C

EDUC 240D Foundations of Curriculum Theory in the United States: A Survey 3 Units
Terms offered: Spring 2017, Spring 2016, Fall 2014
This course explores the development of curriculum theory and the role of the curriculum specialist in the United States since the Progressive Period. Emphasizing a survey of classic texts and key figures, the course covers the development of three schools of thought: social efficiency approaches, child-centered approaches, and social reconstructionist approaches. It concludes with a study of curriculum theory since the Reconceptualists.

Foundations of Curriculum Theory in the United States: A Survey: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.

Instructor: Baquedano-Lopez

EDUC 241B Language Socialization 3 Units
Terms offered: Fall 2014, Fall 2013, Fall 2012
Throughout the lifespan we are socialized through language to become competent participants and members of various groups and communities, including schooling institutions. For the past 20 years, this theory and method for analyzing human development has made important contribution to our understanding of how we learn to become competent members of community, how we learn through language, and how we are socialized into language. This course will provide opportunities to overview the theoretical cornerstones of language socialization as a field of study, as well as review current studies and chart future research trajectories. Course participants are expected to collect and analyze audio/video data from any educational and other learning context where language socialization might be taking place.

Language Socialization: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.

Instructor: Baquedano-Lopez

EDUC 241C Narrative across Learning Contexts 3 Units
Terms offered: Fall 2016, Fall 2012, Fall 2011
The study of narrative has solidified into an important body of literature that is of particular relevance to educators. Across learning contexts, narrative is a ubiquitous literacy tool, and as such, it underlies many learning activities. We tell narratives for their potency to explain, rationalize, and delineate past, present, and possible experience. This narrative act is a collaborative undertaking, co-told and designed with the audience's input, addressing an audience's present and future concerns. Narrative can thus potentially create shared understandings and community among those participating in narrative activity, yet narratives can become sites for rejection and contestation. Narrative is also a socializing tool. The course will also address methodological approaches to the study of narrative that are relevant to the field of education. Students enrolled in this course are expected to collect narrative samples from naturally occurring interactions (video and audio-taped conversation, classroom interaction), written narrative texts, or other.

Narrative across Learning Contexts: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.

Instructor: Baquedano-Lopez

Narrative across Learning Contexts: Read Less [-]
EDUC 241D Perspectives on Classroom Discourse 3 Units
Terms offered: Fall 2015, Spring 2012
This course is designed to provide opportunities for students to observe and analyze classroom talk and interaction, and the language of classroom material and ideological artifacts. In this course we will survey the classic literature on classroom discourse and we explore new orientations to the study of classroom talk. We will draw from literature from interrelated disciplinary perspectives that include linguistics, language socialization, linguistic anthropology, conversation analysis, ethnmethodology, and the ethnography of speaking.

EDUC 241E Design, Practice, and Policy in Educational Settings for English Language Learners 3 Units
Terms offered: Summer 2015 10 Week Session, Summer 2013 10 Week Session
We will examine the instructional design, practice, and policies that shape educational contexts for English Language Learners (ELLs) in urban schools. The topics address the relationship between language policy, immigration, language development, and the intersections of race and ethnicity. The course will also survey key research on language use, bilingualism, and second language acquisition and how the findings of this research are reflected on educational practices and policies.

EDUC 243 Advanced Qualitative Methods 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
The goal of this class is to provide students with ongoing opportunities to expand their qualitative methodological toolkit, with particular emphasis on the following topics: developing a conceptual framework, study design, data collection, data analysis and representation, and writing social sciences research. These topics will be examined in the context of the design, development, and write-up of students’ own research.

EDUC 244B Methods for Teaching English in the Secondary Schools 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
This methods course introduces the teaching of secondary English. It focuses on theories for grounding classroom decisions and connects theory and practice. The course models effective approaches to teaching English and introduces issues in constructing a secondary English curriculum. Students gain a foundation for developing plans for lessons and units of instruction as well as a sense of how to build academic communities of diverse learners, including non-native speakers of English.
EDUC 244C Methods for Teaching English in the Secondary Schools 3 Units  
Terms offered: Spring 2019, Spring 2018, Spring 2017  
The second semester of the methods course is designed to continue introducing the teaching of English, with a focus on strategies grounded in an understanding of theories of teaching and learning. Besides considering the English curriculum in general, the course focuses special attention on several topics, such as second language learners and the uses of technology in the English classroom. It also explores the uses of portfolios for tracking student learning and for assessing teachers’ growth. By the end of the term, students will have a repertoire of theoretically grounded strategies to use to meet the learning needs of diverse student populations.  
Methods for Teaching English in the Secondary Schools: Read More [+]

Rules & Requirements

Prerequisites: Enrollment in CLAD/Single Subject English Credential Program and 244B

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructors: Freedman, Czikó

Methods for Teaching English in the Secondary Schools: Read Less [-]

EDUC 245A Approaches in Teaching English as a Second Language 3 Units  
Terms offered: Summer 2011 10 Week Session, Summer 2009 10 Week Session, Spring 2009  
This course is primarily concerned with methods of teaching English as a second language (ESL) to K-12 students and adults. Traditional methods emphasizing the development of structural knowledge, and new methods focused on the development of communications skills, will be examined. Topics include teaching English through content instruction, “structured English immersion,” syllabus and curriculum design, second language reading, and language testing for placement and evaluation.  
Approaches in Teaching English as a Second Language: Read More [+]

Rules & Requirements

Prerequisites: Applied linguistics course or a course in second language acquisition

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Mahiri

Approaches in Teaching English as a Second Language: Read Less [-]

EDUC 246A Teaching Linguistic and Cultural Minority Students 1 - 3 Units  
Terms offered: Spring 2019, Spring 2018, Spring 2017  
The objective of this course is to prepare teachers to work with linguistic minority students. We will consider ways in which different groups socialize children for learning and ways in which learning patterns acquired in the home can conflict with the culture of school. Student teachers will consider instructional approaches for working with linguistically and culturally diverse students in their classrooms.  
Teaching Linguistic and Cultural Minority Students: Read More [+]

Rules & Requirements

Prerequisites: Admission in a teaching credential program
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-3 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Letter grade.

Teaching Linguistic and Cultural Minority Students: Read Less [-]

EDUC 247C New Literacies of Digital Youth 3 Units  
Terms offered: Prior to 2007  
This course explores new practices of literacy by contemporary youth enabled by digital technologies in places beyond schools. It also assesses how these practices work to enhance or impede literacy and social development in schools. It develops a New Literacy Studies conceptual framework and an ethnography of communications methodological framework for students to understand and analyze these new literacy practices.  
New Literacies of Digital Youth: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Mahiri

New Literacies of Digital Youth: Read Less [-]
EDUC 248 Learning & Identity in a Racially-Structured Society 3 Units
Terms offered: Spring 2019
The central question for this course is “what does it mean to learn in a racially-structured society?” Existing frameworks are often constrained by their theoretical and methodological approaches, often emphasizing the lens of structure, participation, or the individual. This course will explore an emerging body of scholarship in the Learning Sciences that has taken a uniquely interdisciplinary approach to questions of learning, identity, power, politics, and ethics.
Learning & Identity in a Racially-Structured Society: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Philip

Learning & Identity in a Racially-Structured Society: Read Less [-]

EDUC 249B Evaluation and Assessment in Reading and Literacy Instruction 3 Units
Terms offered: Summer 2001 10 Week Session, Summer 2000 10 Week Session, Summer 1999 10 Week Session
Explores both formal (e.g., standardized measures) and informal (e.g., reading inventories, portfolios) measures of assessing reading and writing ability. The course is designed to familiarize students with the most widely used reading measures, to develop competency in administering and interpreting these measures, and to develop an understanding of current issues in the assessment of reading comprehension. Students will explore the issues of cultural bias in testing, the organization and display of student knowledge in different formats, and expectations for the achievement of cultural and linguistic minority students.
Evaluation and Assessment in Reading and Literacy Instruction: Read More [+]

Hours & Format
Summer: 6 weeks - 9 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Formerly known as: 257

Evaluation and Assessment in Reading and Literacy Instruction: Read Less [-]

EDUC 249C Foundations in Reading (Learning from Text) for Secondary Schools 3 Units
Terms offered: Spring 2018, Summer 2017 8 Week Session, Summer 2016 8 Week Session
Introduction to reading and writing in secondary school settings, basic literacy skills, instructional materials and approaches, and assessment procedures appropriate for use in secondary content area courses.
Learning from text theory to practice.
Foundations in Reading (Learning from Text) for Secondary Schools: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of fieldwork per week
Summer:
6 weeks - 8 hours of lecture and 3 hours of fieldwork per week
8 weeks - 6 hours of lecture and 2 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Formerly known as: 257

Foundations in Reading (Learning from Text) for Secondary Schools: Read Less [-]

EDUC 250A Qualitative Research in Language/Literacy Education 3 Units
Terms offered: Spring 2017, Spring 2016, Spring 2015
Focuses on students’ and teachers’ use of language from interrelated perspectives, particularly developmental, sociolinguistic, and ethnographic. Designed to provide students with a view of the classroom as a unique setting whose aims are fostered or rendered problematic by the nature of language use. Students conduct small-scale studies in classroom settings.
Qualitative Research in Language/Literacy Education: Read More [+]

Rules & Requirements
Prerequisites: 241A (formerly 244B) or 240A (formerly 245B); or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Baquedano-Lopez
Formerly known as: 256B

Qualitative Research in Language/Literacy Education: Read Less [-]
EDUC 250B Second Language Acquisition: Concepts and Theories 3 Units
Terms offered: Fall 2011, Fall 2010, Spring 2009
Psycholinguistic theory and research on the acquisition of second languages by learners at secondary and post-secondary institutions. How do adults learn languages other than their own in instructional settings? What skills can they transfer from their native languages, and literacy in L1 transfer to the way the L2 is used in its spoken and written forms? Exploration of various hypotheses and theories that consider language learning from a linguistic, cognitive and discourse perspective. Topics include: interlanguage hypothesis, input, transfer and variation in second language acquisition, interlanguage strategies, affective and cultural variable, schema theory, speech act and discourse theory, and cross-cultural pragmatics.

EDUC 250C Discourse Analysis 3 Units
Terms offered: Spring 2019, Spring 2016, Fall 2014
Examination of the major linguistic, psycho- and sociolinguistic concepts and theories of discourse and their application to the analysis of spoken and written texts in education. Topics include: coherence and cohesion, deixis, speech acts, genres, systematics of conversation and ritual constraints, scripts and frames, information structure, narrative structure.

EDUC 250D Language and Identity 3 Units
Terms offered: Spring 2014, Fall 2010, Spring 2008
Relationship between language as social practice and the construction of individual and collective identity, and its significance in educational contexts. Topics covered include language as embodied practice, language and subjectivity, pedagogy and symbolic control, language learning as mediated action and as the social symbolic construction of identity, writing and textual identity, authorship and voice, language learning memoirs as acts of identity, the politics of recognition, linguistic human rights.

EDUC 250E Multilingualism 3 Units
Terms offered: Spring 2015, Fall 2013
Many people today grow up, live and work in different languages and cultures. How do they experience the superdiversity of today's world? This course gives a multidisciplinary overview of individual and societal multilingualism with particular focus on: language standardization, linguistic diversity and hybridity, language rights and ideologies, the challenges presented by heteroglossia, multimodality, multiliteracy and the multilingual identity of the multilingual individual.
EDUC 251 The History of College Sports in the United States 3 Units
Terms offered: Prior to 2007
Elite intercollegiate competition is unique to the United States. How and why did it evolve in isolation from the rest of the world? The expansion and democratization of public universities, the Industrial revolution, and student organizations contributed to this emerging phenomenon, and the course continues with an exploration of the social, cultural, political, and economic forces that have shaped what today we call college sports.

The History of College Sports in the United States: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Mirabelli

The History of College Sports in the United States: Read Less [-]

EDUC 252A Reading Research: Sociocognitive Perspective 3 Units
Terms offered: Fall 2012, Fall 2010, Fall 2009
An examination of selected topics on reading research including historical aspects of reading research, word recognition, reading comprehension, the relationship between decoding and comprehension, attitudes toward reading, and models of the reading process.

Reading Research: Sociocognitive Perspective: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Sterponi

Formerly known as: 251

Reading Research: Sociocognitive Perspective: Read Less [-]

EDUC 252B The Ethnography of Literacy 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
This course approaches literacy as a socio-cultural activity and considers recent ethnographic work on reading practices in different educational settings, communities, and historical epochs. By considering how reading is differently conceived and realized in a wide range of contexts, this course will shed light on reading as a historically contingent, ideologically shaped, and socio-culturally organized practice. More specifically, this course has a twofold aim: 1) to introduce students to recent ethnographic research on reading practices; 2) to familiarize them with ethnographic methodology. To this scope, in addition to reading exemplary studies of reading practices, students will also conduct a small-scale ethnographic research project.

The Ethnography of Literacy: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Freedman

Formerly known as: 252

Research in Writing: Read Less [-]

EDUC 253A Research in Writing 3 Units
Terms offered: Fall 2010, Spring 2008, Spring 2006
Critical examination of major theories and approaches to research in writing. Preparation for designing and conducting research projects on the written language.

Research in Writing: Read More [+]

Rules & Requirements
Prerequisites: 240B (formerly 242) or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Freedman

Formerly known as: 252

Research in Writing: Read Less [-]
EDUC 257 Theoretical Foundations for the Cultural Study of Sport in Education 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
The cultural study of sport examines the ways in which institutionalized physical activity embodies and reflects social meanings and identities. The social practice of sport provides a space in which dominant discourses of race, gender, and social class are reproduced and resisted. As these physical activities become institutionalized, commercialized, and embedded within educational institutions themselves, individuals must navigate a nuanced and often conflicted terrain in their respective participation and performance. This course, then, examines the role of sport in society broadly and the relationship of sport and education more specifically. The curriculum reviews the writing and research on sport and education from a sociological, psychological, and philosophical perspective, with a particular focus on the constructed divide of mind and body, as manifested in the institutional conflicts between school and sport.

Theoretical Foundations for the Cultural Study of Sport in Education: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Van Rheenen

Theoretical Foundations for the Cultural Study of Sport in Education: Read Less [-]

EDUC 258 Academic Support Services for Student Athletes 3 Units
The increased institutionalization and regulation of intercollegiate athletics have created a new and specialized career field composed of counselors, academic advisers, learning specialists, tutors, and technological and administrative support staff. This course will investigate the historical, philosophical, and ethical foundation of these services, focusing in particular on the analysis of an academic advising and tutorial program for student athletes.

Academic Support Services for Student Athletes: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Van Rheenen

Academic Support Services for Student Athletes: Read Less [-]

EDUC 260A Issues in Educational Administration and Policy 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
(Required of all students in the Division of Educational Administration and Evaluation.) Concepts, theories, and issues related to administration and evaluation. Application is made to governmental policy for school systems.
Issues in Educational Administration and Policy: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Fuller

Issues in Educational Administration and Policy: Read Less [-]

EDUC 260C Issues in Urban Educational Leadership I 1 Unit
Terms offered: Summer 2005 10 Week Session, Summer 2004 10 Week Session, Summer 2003 10 Week Session
This course gives candidates an opportunity to pull together the four concentration areas of the master's program: Teaching and Learning (TI), Educational Organizational Leadership and Management (EOLM), Education Change and Reform (ECR), and Issues in Urban Education (IUE). Graduate candidates will deepen their inquiry through the use of problem-solving and reflection as they apply the theory of course work to the daily reality of becoming leaders in schools.

Issues in Urban Educational Leadership I: Read More [+]

Hours & Format
Summer: 6 weeks - 2.5 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Treadway

Issues in Urban Educational Leadership I: Read Less [-]
EDUC 260D Issues in Urban Educational Leadership 1 Unit
Terms offered: Summer 2005 10 Week Session, Summer 2004 10 Week Session, Summer 2003 10 Week Session
This course will provide students the opportunity to make connections between theory and practice as candidates look forward to positions as site-based leaders.
Issues in Urban Educational Leadership: Read More [+]
Rules & Requirements
Prerequisites: Admission to the Principal Leadership Program
Hours & Format
Summer: 6 weeks - 2.5 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Tredway
Issues in Urban Educational Leadership: Read Less [-]

EDUC 260E Good Schools for All Children 3 Units
Terms offered: Spring 2010
The course brings together three bodies of knowledge, developed by people who often work quite separately in the academy: philosophical discourses on the aims of education; research on effective schools and instruction; socio-cultural critiques of schooling inequities. Our quest in this course is to derive from these bodies of theory a conceptualization of the good school around the aims of performance, understanding, and justice.
Good Schools for All Children: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Mintrop
Good Schools for All Children: Read Less [-]

EDUC C260F Machine Learning in Education 3 Units
Terms offered: Fall 2018, Fall 2017
This course covers computational approaches to the task of modeling learning and improving outcomes in Intelligent Tutoring Systems (ITS) and Massive Open Online Courses (MOOCs). We will cover theories and methodologies underpinning current approaches to knowledge discovery and data mining in education and survey the latest developments in the broad field of human learning research. The course is project based; teams will be introduced to online learning platforms and their datasets with the objective of pairing data analysis with theory or implementation. Literature review will add context and grounding to projects.
Machine Learning in Education: Read More [+]
Rules & Requirements
Prerequisites: Suggested background includes one programming course and familiarity with one statistical/computational software package
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Pardos
Also listed as: INFO C260F
Machine Learning in Education: Read Less [-]

EDUC 261A Organization Theory in Education and Other Social Services 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Concepts of power, authority, legitimacy, professions, controls, incentives, etc., as they apply to education or other social services.
Organization Theory in Education and Other Social Services: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Fuller
Organization Theory in Education and Other Social Services: Read Less [-]
EDUC 262A Urban School Leadership and Management 1 3 Units
Terms offered: Summer 2006 10 Week Session, Summer 2005 10 Week Session, Summer 2004 10 Week Session
The purpose of this course is to ground aspiring urban leaders in the essential ideas and values that guide their work in schools and their studies in the Principal Leadership Institute. It provides opportunities for future school leaders to deepen their notions of what socially just schools look like, and why; to analyze the challenges to creating socially just schools in urban centers; and to imagine the possible actions that leaders can take to promote such schools.

Rules & Requirements
Prerequisites: Admission to the Principal Leadership Institute Program

Hours & Format
Summer: 6 weeks - 8 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Trujillo

EDUC 262B School Supervision: Theory and Practice 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
Concepts and practices associated with the analysis of teaching and clinical supervision of teachers in urban systems. The role of the urban school leader in supervising teachers.

School Supervision: Theory and Practice: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Tredway

EDUC 262C Personnel Administration in School Systems and Social Organizations 3 Units
Concepts and practices related to the administration of personnel services in urban school systems and social organizations.

Personnel Administration in School Systems and Social Organizations: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Tredway

EDUC 262D Research Group on the Working Lives of Teachers 3 Units
Terms offered: Spring 2014, Spring 2011, Fall 2010
Research group for graduate students specializing in research on teachers' work and organizational and policy contexts of teaching. Complements but does not substitute for foundational course work in research methods or substantive areas of specialization. Strengthens preparation for research through (a) consultation and feedback on research design, data collection, analysis, and writing; and (b) reading and discussion on selected topics related to teachers' work.

Research Group on the Working Lives of Teachers: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Little

Research Group on the Working Lives of Teachers: Read Less [-]
EDUC 262F Organizational Policy and Teachers' Work 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
Students will examine the ways in which state, district, and workplace policy bears upon various aspects of teachers' work. Special emphasis is given to the way in which policy choices—at whatever level—shape the experience of teaching and the organization of schooling. Among the policy areas considered are those governing membership in the teaching occupation, teaching assignments, classroom autonomy regarding curriculum and instruction, performance evaluation, and opportunities for professional development. This course is a requirement for students in educational administration and those students completing the Professional Administration Services Credential. It is open to all other interested students.
Organizational Policy and Teachers' Work: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Little
Organizational Policy and Teachers' Work: Read Less [-]

EDUC 262G Research on the Education of Teachers 3 Units
Terms offered: Spring 2016, Spring 2015, Spring 2013
The course focuses on research on the education of prospective and practicing teachers, and on the institutional, organizational and policy contexts in which that research has been pursued. It is designed for students who are interested in doing research in this field or in becoming teacher educators, and is built on several organizing questions. What is the work (and workplace) for which teachers are being prepared? What is the occupational conception of teaching that underpins practice, policy, and research? What is the significance of teacher education's fluctuating fortunes and shifting institutional forms? What is the field's capacity for research on teacher education? By comparison with research on teaching and learning, research on the education of teachers has been under-developed both conceptually and methodologically. Throughout the course, we will be judging the accomplishments and limitations of this field of practice and study, and locating opportunities for future research and development.
Research on the Education of Teachers: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Little
Research on the Education of Teachers: Read Less [-]

EDUC 262H Urban School Leadership and Management 2 2 Units
Terms offered: Spring 2007
The purpose of this course is to build on the essential ideas and values discussed in EDUC 262A: Urban School Leadership and Management I by focusing on effective teaching. This instructional vision guides the work of leaders in schools. It provides opportunities for future school leaders to deepen their notions of what socially just schools look like, and why; to analyze the challenges to creating socially just schools in urban centers; and to imagine the possible actions that leaders can take to promote such schools. The course will be framed by one major question. Goals have been listed under each question.
Urban School Leadership and Management 2: Read More [+]
Rules & Requirements
Credit Restrictions: Students will receive no credit for Education 262H after taking Education 262A.
Hours & Format
Summer: 6 weeks - 5 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Cheung
Urban School Leadership and Management 2: Read Less [-]

EDUC 263A Legal Issues in Educational Practice 1 - 3 Units
Terms offered: Spring 2017, Spring 2015, Spring 2013
Legal structures and practices in Education for teachers and counselors. Teacher, pupil, counselor rights and responsibilities.
Legal Issues in Educational Practice: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Legal Issues in Educational Practice: Read Less [-]
EDUC 263B Legal and Policy Issues in Urban Educational Leadership 3 Units
This course will explore the statutory and judicial constraints upon local decision making as well as the areas in which site decision making is permitted and required.
Legal and Policy Issues in Urban Educational Leadership: Read More [+]
Rules & Requirements
Prerequisites: Admission to the Principal Leadership Institute Program
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Legal and Policy Issues in Urban Educational Leadership: Read Less [-]

EDUC 265A Economics of Education and Other Social Services 3 Units
Terms offered: Fall 2012, Fall 2011, Fall 2009
Topics to be considered include the following: alternative methods of assessing the contribution of education to economic growth, demand for education services, education production functions, cost analysis and sectorial planning, economic aspects of innovation.
Economics of Education and Other Social Services: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Economics of Education and Other Social Services: Read Less [-]

EDUC 266B School Site Finance and Resources 1 1 Unit
The purpose of this course is to ground aspiring urban school leaders in the essential concepts, skills, and demands related to managing school finance and resources at the site level. Specifically, it will focus on resource allocations and concepts of equity with resources allocations.
School Site Finance and Resources 1: Read More [+]
Rules & Requirements
Prerequisites: Admission to the Principal Leadership Institute Program
Hours & Format
Fall and/or spring: 15 weeks - 1 hour of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Cheung
School Site Finance and Resources 1: Read Less [-]
EDUC 266C School Site Finance and Resources II 2 Units
Terms offered: Summer 2014 10 Week Session
The purpose of this course is to ground aspiring urban school leaders in the essential concepts, skills, and demands related to managing school finance and resources at the site level. Specifically, it will focus on understanding funding sources, analyzing resource allocations, governance related to resource allocations, and leveraging different types of resources.

School Site Finance and Resources II: Read More [+]

Rules & Requirements
Prerequisites: Admission to the Principle Leadership Institute Program

Hours & Format
Summer: 6 weeks - 5 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Castro

EDUC 269B Citizenship, Democracy, and Education Research Group 3 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Research group for graduate students whose work focuses on the role of schools in impeding or promoting social, economic, cultural, and political democracy. Provides extensive feedback on all phases of research and its application to the democratization of education. Topics range depend on students' interests and range from curriculum and pedagogy to the evolution of social movements for racial justice in education.

Citizenship, Democracy, and Education Research Group: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar and 1 hour of discussion per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Wilson

BEAR Center Seminar: Read Less [-]

EDUC 270B BEAR Center Seminar 2 or 3 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
This seminar constitutes one of the ways in which the Berkeley Evaluation and Assessment Research (BEAR) Center fulfills its role of supporting student research. The topic of the seminar will change from semester to semester, following themes chosen by the instructor and the participants. The seminar is an opportunity for students and faculty to present their recent and ongoing work for in-depth review and commentary. In addition, visitors to the campus with expertise relevant to the topic(s) under examination will be invited to present at the seminar and join in the discussion. Students taking this course for two units will make a presentation of a current research interest to the seminar. Students taking this course for three units will also be required to attend a one-hour discussion following each presentation and will write a critique of one other student's presentation.

BEAR Center Seminar: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar and 1 hour of discussion per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Wilson

BEAR Center Seminar: Read Less [-]

EDUC 271B Introduction to Qualitative Research Methods 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Introduces principles and methods commonly associated with qualitative field research in the social sciences. Includes assigned readings on basic methodological topics; structured activities related to research design, research ethics and human subjects protection, data collection, data organization and reduction, data analysis; and field research experience through individual or team projects. Course satisfies the qualitative methods requirement for students in the Policy, Organization, Measurement, and Evaluation (POME) program.

Introduction to Qualitative Research Methods: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Little

Formerly known as: 288B

Introduction to Qualitative Research Methods: Read Less [-]
EDUC 271E Issues in Teaching and Learning for Educational Leaders I 3 Units
Terms offered: Prior to 2007
This course explores the educational contexts and experiences of teachers and students in urban schools. The topics that we will cover include issues of race and privilege, the relationship between good teaching and learning in the context of immigration, desegregation efforts, and educational policies towards linguistic and culturally diverse students. We will discuss the politics of access and inclusion, in particular we will examine issues affecting the performance of language learners. Issues in Teaching and Learning for Educational Leaders I: Read More [+]
Rules & Requirements
Prerequisites: Admission to the Principal Leadership Institute
Hours & Format
Summer: 6 weeks - 8 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Cheung
Issues in Teaching and Learning for Educational Leaders I: Read Less [-]

EDUC 271F Issues in Teaching and Learning for Educational Leaders II 2 Units
Terms offered: Summer 2006 10 Week Session, Summer 2005 10 Week Session, Summer 2004 10 Week Session
In this course we will build on the topics discussed in EDUC 271E: Issues in Teaching and Learning for Educational Leaders I by exploring the issues of personal identity and vision related to school contexts. To this end, the readings provide theoretical approaches to help you develop and support claims about your personal identity as well as the interplay of personal identity in schools. The assignments are designed to help you develop and refine a personal vision for working in diverse educational settings. Issues in Teaching and Learning for Educational Leaders II: Read More [+]
Rules & Requirements
Prerequisites: Admission to the Principal Leadership Institute Program
Credit Restrictions: Students will receive no credit for Education 271F after taking Education 271E.
Hours & Format
Summer: 6 weeks - 6 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Coburn
Issues in Teaching and Learning for Educational Leaders II: Read Less [-]

EDUC 271G Research Methods in Educational Leadership: Qualitative Methods 3 Units
Terms offered: Fall 2015, Fall 2013, Fall 2011
This course introduces future educational leaders to the world of qualitative research so that they will be able to read qualitative studies intelligently, and learn to design and conduct qualitatively oriented studies themselves. Beginning with an overview of the epistemological assumptions behind different kinds of research, the course will explore various types of qualitative research approaches and the kinds of topics and queries they support. Students will read and critique examples of published research of various kinds, partially chosen for the interests and inputs of course participants. Next, students will investigate topic development, the various methods of collecting and analyzing qualitative data, and writing the report. The class is designed so that students simultaneously read about and discuss qualitative research, and conduct research themselves. Research Methods in Educational Leadership: Qualitative Methods: Read More [+]
Rules & Requirements
Prerequisites: Good standing in the LEEP Program
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Coburn
Research Methods in Educational Leadership: Qualitative Methods: Read Less [-]
EDUC 272B School Data Analysis for Principals 1 - 2 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
The course focuses on preparing future school leaders for leading school improvement by using statistical analysis, understanding the use of formative assessments, evaluating and using educational research particularly related to instructional materials and best practices, creating an effective PowerPoint presentation, and understanding different types of classroom grading and grade reporting practices. Term assessments include keys to quality assessment audit, best practice case study, research-based instructional materials analysis, educational research presentation, grading policy, and several reflection pieces.

School Data Analysis for Principals: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit up to a total of 3 units.

Hours & Format
Fall and/or spring: 15 weeks - 1-2 hours of lecture per week
Summer: 6 weeks - 2.5 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Cheung

School Data Analysis for Principals: Read Less [-]

EDUC 273B Research Group on Policy Implementation 3 Units
Terms offered: Spring 2016, Fall 2015, Spring 2015
This year-long research and writing group is intended for graduate students who plan to specialize in studying educational policy implementation. In the course, we will investigate what happens from the time a policy is enacted until the policy is actually implemented in classrooms, schools, and districts. The centerpiece of the research group is reviewing and providing feedback to members on their works-in-progress related to policy implementation. The goal is to strengthen participants' preparation for research in this area through a combination of consultation and feedback on specific problems related to conceptualizing and enacting high quality research, including but not limited to the formulation of research questions, theory development, research design, data collection, analysis, writing, and publication. We will supplement this activity by reading research together to help build a shared understanding of the different theoretical perspectives that can potentially inform the study of policy implementation, including institutional theory, social movements analysis, conflict perspectives, and organizational learning theory.

Research Group on Policy Implementation: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Coburn

Research Group on Policy Implementation: Read Less [-]
EDUC 273C Decision Making Based on Data Evidence 3 Units
Terms offered: Spring 2014, Spring 2012
This course builds on the premise that data evidence is one of the powerful tools that can help us make informed decisions. The course plans to examine and practice effective and thoughtful use of data for educational improvement at all levels of a school district. Main topics include: evaluating policy, programs, and interventions; understanding assessment and key accountability indicators; and becoming a critical consumer of research and evaluation.

Rules & Requirements
Prerequisites: Good Standing in LEEP

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

EDUC 273D Decision Making II 3 Units
Terms offered: Summer 2012 10 Week Session, Summer 2012 8 Week Session
This course is about decision making in the real world. It reviews research on how decision making actually unfolds in schools and school districts and the range of factors that shape it. We begin with cognitive factors, move on to investigate social and organizational factors, and then investigate political factors that influence decision making.

Rules & Requirements
Prerequisites: Good standing in LEEP; 273C

Hours & Format
Summer: 8 weeks - 6 hours of lecture per week

EDUC 274A Measurement in Education and the Social Sciences I 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Students will learn good measurement practice by constructing an instrument and investigating its measurement properties (specifically, validity, and reliability). The act of measuring will be positioned as a link between qualitative observations and quantitative measures, and this will be discussed in a variety of contexts, such as interviewing, standardized testing, and performance assessment. We will discuss both classical and modern testing approaches from conceptual and practical points of view.

Rules & Requirements
Prerequisites: 274A or sufficient background to follow the mathematical development

Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week

EDUC 274B Measurement in Education and the Social Sciences II 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
An introduction to classical test theory and item response theory from a theoretical viewpoint. Application of these techniques to a practical measurement situation will be studied. Topics such as test bias, computerized and polytomous response modes will be discussed.

Rules & Requirements
Prerequisites: 274A or sufficient background to follow the mathematical development

Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week
EDUC 274C Research Seminar in Measurement 4 Units
Terms offered: Spring 2018, Spring 2016, Spring 2014
The seminar will address a current research issue in the area of educational and psychological measurement. Topics will vary from year to year. Some examples are polytomous item response theory, measurement of cognitive processes and learning, and assessment issues in evaluation.
Research Seminar in Measurement: Read More [+]
Rules & Requirements
Prerequisites: 274A or equivalent
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 4 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Wilson
Formerly known as: Educational Psychology 208C
Research Seminar in Measurement: Read Less [-]

EDUC 274D Multidimensional Measurement 4 Units
Terms offered: Spring 2019, Spring 2017, Spring 2015
Exploratory factor analysis, confirmatory factor analysis, and multidimensional item response theory.
Multidimensional Measurement: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Wilson
Formerly known as: Educational Psychology 208D
Multidimensional Measurement: Read Less [-]

EDUC 275B Data Analysis in Educational Research II 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
A second course in educational statistics and data analysis. Emphasis is on using and interpreting multiple regression, loglinear models, and the analysis of variance for a variety of data sets and with a variety of analytic objectives. Must be taken concurrently with the computer laboratory Education 275L.
Data Analysis in Educational Research II: Read More [+]
Rules & Requirements
Prerequisites: 293A and 293L or equivalent recommended or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Formerly known as: Educational Psychology 209B
Data Analysis in Educational Research II: Read Less [-]

EDUC 275G Hierarchical and Longitudinal Modeling 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
The course introduces hierarchical linear and generalized linear models for longitudinal or clustered data. Such models are important in education research where longitudinal development such as learning is of interest and where students are clustered in classes or schools. Other examples of clustering are people nested in neighborhoods, hospitals, or firms. Students will practice formulating and estimating hierarchical models using either educational data sets provided or their own data sets.
Hierarchical and Longitudinal Modeling: Read More [+]
Rules & Requirements
Prerequisites: Linear and logistic regression, 275B or equivalent
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of laboratory per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Rabe-Hesketh
Hierarchical and Longitudinal Modeling: Read Less [-]
EDUC 275H Research Group in Multilevel Modeling 1 or 2 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Multilevel models are useful when the units of observation are grouped in clusters such as students in schools, patients in hospitals, or prisoners in prisons. The research group is for students who wish to analyze such data or who have an interest in the methodology. In each meeting, we will either discuss students' ongoing research projects, or a methodological topic of interest. Readings (papers, chapters, drafts of student projects) will be distributed a week in advance.
Rules & Requirements
Prerequisites: Linear and logistic regression, equivalent to 275B
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 8 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Rabe-Hesketh

EDUC 276A Introduction to Program Evaluation 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
This course provides an introduction to the field of program evaluation ("programs" might be curriculum innovations, school reorganizations, teacher training reforms, instructional methods innovations, funding programs, or programs in the health or welfare areas). It will give an overview of issues of concern to practicing evaluators, researchers, program managers, and academics interested in field-based research. Those taking the course will be introduced to the history of the field, the basic concepts and intellectual disputes, the major methodological issues, and to some common "models" of how an evaluation ought to be conducted. Based on the understandings of the topics and issues discussed in this course, participants will be asked to conceptualize and design an evaluation in their area of personal and/or professional interests. The purpose of this exercise is for participants to develop skills for framing evaluation questions, designing, and describing an evaluation plan.
Rules & Requirements
Prerequisites: 293A and 293L recommended or equivalent
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Newton
Formerly known as: 293C

EDUC 275L Educational Data Analysis Laboratory II 1 Unit
Terms offered: Spring 2019, Spring 2018, Spring 2017
Students use the program SYSTAT to do intermediate and advanced data analysis projects using a variety of educational data sets in conjunction with 275B. Assumes basic familiarity with the statistical program SYSTAT. Must be taken concurrently with 275B.
Rules & Requirements
Prerequisites: 293A and 293L recommended or equivalent
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of laboratory per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Rabe Hesketh
Formerly known as: 209L

Educational Data Analysis Laboratory II: Read Less [-]
EDUC 276C Practicum in Evaluation 2 - 4 Units
Terms offered: Spring 2015, Fall 2013, Spring 2013
For students involved in an evaluation or assessment project as graduate student researchers or part of a practicum or apprenticeship experience. The purpose of this course is to integrate practical experiences with evaluation theory and research literatures relevant to specific evaluation questions or methods. Also provides additional instructional support to students using project data in courses, position papers, dissertations. Readings relate to evaluation topics (e.g., evaluation of professional development programs, use of student data to evaluate teaching) and discussions focus on design, methodology, and research questions of specific projects being conducted by the students. Practicum in Evaluation: Read More [+]

Rules & Requirements
Prerequisites: 293A, 293L
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar and 4-3 hours of laboratory per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Formerly known as: 293F
Practicum in Evaluation: Read Less [-]

EDUC 276D Theoretical Issues in Evaluation 3 Units
Terms offered: Spring 2013, Spring 2010, Spring 2008
In this seminar, we will engage in a critical examination of various scholars' theoretical perspectives on some of the fundamental issues in evaluation practice, understand why we should care about these issues and what theorists have to say, how theorists' perspectives reflect their disciplinary training, methodological preferences, and/or their personal evaluation experiences, and the extent to which their theoretical perspectives are or are not connected with evaluation practice. Theoretical Issues in Evaluation: Read More [+]

Rules & Requirements
Prerequisites: 276A

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Newton
Theoretical Issues in Evaluation: Read Less [-]

EDUC 276E Research Design and Methods for Program and Policy Evaluation 3 Units
Terms offered: Spring 2011, Spring 2009, Spring 2005
This course, designed to graduate students with some prior training to quantitative research methods, will introduce students to a toolkit of methods to enable them to address issues related to "what works" in program and policy evaluation. In addition, the course intends to help students understand the assumptions implicit in each of these approaches. Topics include: (1) validity, threats to validity, and causal inference framework; (2) randomized experiments and quasi-experiment designs (regression discontinuity and propensity score matching); (3) multilevel modeling technique used in multi-site evaluation and longitudinal intervention studies; (4) mixed-methods approach; (5) meta-analysis for synthesizing evaluation/empirical studies; and (6) power and sample size in designing new evaluation studies.

Research Design and Methods for Program and Policy Evaluation: Read More [+]

Rules & Requirements
Prerequisites: 276A or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Newton
Research Design and Methods for Program and Policy Evaluation: Read Less [-]
EDUC 277A Systemic Educational Reform I 3 Units
Terms offered: Summer 2013 10 Week Session, Summer 2013 8 Week Session, Summer 2011 8 Week Session
At the conclusion of this course you should be able to understand the history of and core concepts associated with accountability and systemic reform, especially those associated with No Child Left Behind and California accountability policy; analyze the strengths and weaknesses of various accountability schemes, particularly in terms of their likely effect on student academic achievement, teacher effectiveness, and organizational flexibility and responsiveness; forge closer connections among your personal experiences as a successful professional educator, your practice-derived theories of education reform, and your readings, presentations, and other activities related to this course to create your own formal, evidence-based theory of systemic educational change; think strategically and systemically about how districts can support schools in increasing student learning and achievement; develop an understanding of initial processes that are essential for undertaking systemic reform at the district level; and frame questions for further inquiry on key topics in the course based on a review of existing literature.
Systemic Educational Reform I: Read More [+]
Rules & Requirements
Prerequisites: Admission to the Joint Doctoral Program or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 6 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructors: Coburn, Love
Systemic Educational Reform I: Read Less [-]

EDUC 277B Systemic Educational Reform II 3 Units
Terms offered: Summer 2014 10 Week Session, Summer 2013 10 Week Session, Summer 2013 8 Week Session
This is the second of three courses connected to the thematic area Systemic Educational Reform: theory, policy, and practice, and is intended for second-year students in the UC Berkeley/CSU Joint Doctoral Program on Leadership for Educational Equity (JDP). The purpose of this course is to examine the theoretical assumptions and empirical evidence related to the capacity of school districts to promote educational effectiveness across geographically distributed educational settings, including schools, after-school educational interventions, professional development programs, and the like.
Systemic Educational Reform II: Read More [+]
Rules & Requirements
Prerequisites: Second-year students and good standing in the joint doctoral program
Hours & Format
Summer: 8 weeks - 6 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructors: Gifford, Hollingsworth
Systemic Educational Reform II: Read Less [-]

EDUC 278A Excellence and Equity in Education I: Inequality and Equity 3 Units
Terms offered: Summer 2011 8 Week Session, Summer 2009 10 Week Session, Summer 2006 10 Week Session
The issues of inequality, of various kinds, and of equity, again with many different conceptions, have been central to debates over American schooling, particularly in urban areas. This course provides a conceptual framework to begin understanding the different dimensions of inequality and equity. As part of the theme in the Joint Doctoral Program of "Achieving Excellence and Equity in Practice," it will be followed by additional courses that examine certain topics in greater depth.
Excellence and Equity in Education I: Inequality and Equity: Read More [+]
Rules & Requirements
Prerequisites: Good standing in LEEP or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 6 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Grubb
Excellence and Equity in Education I: Inequality and Equity: Read Less [-]
EDUC 278B Excellence and Equity 2: The Dynamics of Improving Schools and Districts
3 Units
Terms offered: Fall 2014, Spring 2014, Spring 2013
The design of this course starts from the assumption that the question of "what works" in schools is not easily answered. Much of it depends on what sorts of outcomes educators value and hinges on specific conditions schools and districts face. The course aims at developing and refining judgment by looking in-depth at improvement strategies, interventions, or levers for change employed by urban school districts. Given that the theme of the course is school improvement and, given LEEP students' administrative and leadership expertise, the course is envisioned as an opportunity for deep reflection and exchange among knowledgeable actors.

Excellence and Equity 2: The Dynamics of Improving Schools and Districts: Read More [+]

Rules & Requirements
Prerequisites: Good standing in LEEP

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Mintrop

Excellence and Equity 2: The Dynamics of Improving Schools and Districts: Read Less [-]

EDUC 278C Milestone 2: Mapping the Professional Knowledge Base 3 Units
Terms offered: Fall 2015, Spring 2015, Fall 2014
This second milestone course continues students' development of their knowledge base in relation to their established problem of practice. The purpose of the course is to ensure that this process is focused and fruitful, as students take the first steps in applying their new knowledge to a design development study. At the end of the course, students' first milestone paper should be ready for approval.

Milestone 2: Mapping the Professional Knowledge Base: Read More [+]

Rules & Requirements
Prerequisites: Education 294E. Good standing in LEEP
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Mintrop

Milestone 2: Mapping the Professional Knowledge Base: Read Less [-]

EDUC 278D Milestone 4: Research Design and Methodology 3 Units
Terms offered: Spring 2016, Spring 2015, Fall 2014
The fourth course in the LEEP milestone sequence moves students from the exploration of the professional knowledge base to the design of their dissertation study. The main course objective is the completion of milestone 2: the writing of a paper on the design and methodology of the dissertation study. Together with the first milestone paper (Exploring the Knowledge Base) and the third milestone paper (Dissertation Prospectus), this paper should qualify students to participate in the qualifying exam, the prerequisite for dissertation research.

Milestone 4: Research Design and Methodology: Read More [+]

Rules & Requirements
Prerequisites: 278C. Good standing in LEEP

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Mintrop

Milestone 4: Research Design and Methodology: Read Less [-]
EDUC 279A Resource Management 1 3 Units
Terms offered: Fall 2011, Fall 2009, Fall 2006
This course examines management tools and financial methods of
effective leadership of school districts in California. The course will
present strategies from both business and educational perspectives
and will challenge conventional financial management practices in
California school systems. Specific areas of emphasis will be on
maximizing the effective use of educational resources (e.g., financial
analyses, budget techniques, cost analyses, management information
systems), understanding the constraints that influence public school
expenditures (e.g., state and federal legislation), and accomplishing the
educational objectives of the school system through financial application
(cost analysis and project management techniques). The underlying
assumption of the course is that informed financial leadership can
improve the opportunity to achieve educational achievement and equity in
public school organizations.

Rules & Requirements
Prerequisites: Good standing in LEEP or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Chan

EDUC 279B Resource Management 2 3 Units
Terms offered: Spring 2016, Summer 2013 8 Week Session, Summer
2012 8 Week Session
In general, the purpose of this course is to prepare a new generation
of superintendents. This course will expand on the foundation laid in
the Budgeting 1 class, which serves as a "bootcamp" for fundamental
management skills and concepts used in business and nonprofit
organizations. The topics covered will be more focused on developing
knowledge and skills needed by superintendents and educational leaders
in the present.

Rules & Requirements
Prerequisites: 279A or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Gifford

EDUC 280A Proseminar: Sociocultural
Critique of Education 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
These interdisciplinary seminars address a series of questions. In what
ways can philosophical, sociological, anthropological, historical, and
psychological forms of inquiry be brought together to bear on the analysis
of learning, on schooling, and on education more generally? What do we
mean by critical and interpretive theories, and what are their relations with
social practice? How can education come to constitute itself otherwise
than in its current form?

Rules & Requirements
Prerequisites: Consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Leonardo
EDUC 280B Proseminar: Sociocultural Critique of Education 3 Units
These interdisciplinary seminars address a series of questions. In what ways can philosophical, sociological, anthropological, historical, and psychological forms of inquiry be brought together to bear on the analysis of learning, on schooling, and on education more generally? What do we mean by critical and interpretive theories, and what are their relations with social practice? How can education come to constitute itself otherwise than in its current form?
Proseminar: Sociocultural Critique of Education: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Leonardo
Proseminar: Sociocultural Critique of Education: Read Less [-]

EDUC 280C Research Apprenticeship and Qualitative Methodology Seminar I 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
The emphasis in this course is on the practice of research. Each student, ordinarily in the second year of graduate study, develops a research project with a faculty mentor and carries it out under direction. At the same time, students work together in this seminar. Short written assignments during the first eight weeks result in a research proposal to be carried out by the end of the semester. Students spend about 50 hours on the field research.
Research Apprenticeship and Qualitative Methodology Seminar I: Read More [+]
Rules & Requirements
Prerequisites: 280A or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Shaiken
Research Apprenticeship and Qualitative Methodology Seminar I: Read Less [-]

EDUC 280D Research Apprenticeship and Qualitative Methodology Seminar II 3 Units
Terms offered: Spring 2017, Spring 2016, Spring 2015
This is the second in a sequence of courses on the practice of research. In the first semester students work with faculty mentors and in the seminar to carry out a field research project. Continuing both apprenticeship and seminar, this semester is devoted to analyzing the field materials and preparing a paper on the research.
Research Apprenticeship and Qualitative Methodology Seminar II: Read More [+]
Rules & Requirements
Prerequisites: 280C or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Shaiken
Research Apprenticeship and Qualitative Methodology Seminar II: Read Less [-]

EDUC 281A Race, Whiteness Studies and Education 3 Units
Terms offered: Spring 2019
Course is designed to introduce graduate students to the area of whiteness studies and how it has been taken up by scholars in education, the social sciences and humanities. It asks the student to assess what this innovation within race theory (as well as secondarily within other theories, such as class and gender analysis) produces in terms of knowledge and understanding of a general racial predicament.
Race, Whiteness Studies and Education: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Leonardo
Race, Whiteness Studies and Education: Read Less [-]
EDUC 282 Introduction to Research Inquiry: Power, Epistemology, and Method 3 Units  
Terms offered: Spring 2019  
This course is meant to introduce students to the process of conducting research. It approaches this goal by asking students to learn about and critically engage the ontological and epistemological assumptions underlying the varied methodologies used in education research. This class aims to get students to think critically about research design, implementation, and interpretation, with a particular focus on how epistemological and ethical issues can play themselves out in research projects and the roles that power plays in the research process.  
Introduction to Research Inquiry: Power, Epistemology, and Method: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week  
Additional Details
Subject/Course Level: Education/Graduate  
Grading: Letter grade.  
Instructor: Garcia Bedolla

EDUC 283B Historical Perspectives on American Education 3 Units  
Terms offered: Spring 2017, Spring 2016, Fall 2012  
Public schooling today reflects a long evolution, producing an institution that embodies social inequalities as well as democratic aspirations. Politicians, teachers, school reformers, and others interested in education invoke elements of this history to justify their efforts. This course examines the relationship of the changing goals, organization, and practices of American schools to broader social, economic, political, and intellectual developments.  
Historical Perspectives on American Education: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week  
Additional Details
Subject/Course Level: Education/Graduate  
Grading: Letter grade.  
Instructor: Perlstein

EDUC 283D Popular Education 3 Units  
Terms offered: Spring 2010, Spring 2009, Spring 2008  
The empowerment of adults through democratically structured cooperative study and action directed toward achieving more just and peaceful societies within a life-sustaining global environment. The historical development of theory and practice as well as the current state of this major international educational movement and its associated research model--participatory research--will be examined using case studies and theoretical works. Our principal method will be dialogue.  
Popular Education: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week  
Additional Details
Subject/Course Level: Education/Graduate  
Grading: Letter grade.  
Instructor: Hurst

EDUC 283F Urban Education 3 Units  
Terms offered: Fall 2018, Fall 2017, Fall 2016  
This course will explore the relationship between macroeconomic and political trends and public education in inner city schools. The impact of these larger societal phenomena upon drop-out rates, school climate, teacher morale, and academic achievement will be investigated through a combination of reading and field research in Oakland and Berkeley schools. An examination and evaluation of current proposals for reform of urban schools will also be included.  
Urban Education: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week  
Summer: 6 weeks - 8 hours of seminar per week  
Additional Details
Subject/Course Level: Education/Graduate  
Grading: Letter grade.  
Instructor: Mahiri

Urban Education: Read Less [-]
EDUC 284A Philosophy of Education 3 Units
Terms offered: Fall 2009, Fall 2005, Fall 2004
Philosophical analysis applied to current educational problems and key concepts.
Philosophy of Education: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Tredway
Philosophy of Education: Read Less [-]

EDUC 285 Globalization and International Education 3 Units
Terms offered: Spring 2015, Fall 2012, Spring 2009
What is globalization? What are the implications of living in a "global world" for educational systems? In this course, we explore these questions by first examining various theoretical perspectives on globalization. We will then discuss several major developments associated with globalization that are affecting different levels of education (from primary to university) including the rise in accountability and testing, skills for the "knowledge" economy, and immigration. We will consider the role of international organizations such as the World Bank and the United Nations in shaping international policy and programs. We will also examine the role that the state, local communities, and non-governmental agencies play in providing and improving the quality of education. In the final part of the course, we examine topics including language policy, technology, and strategies to combat educational inequality. To explore these topics, we will read and discuss case studies from Asia, Africa, Latin America, and the United States to provide concrete examples of how global forces are changing the context and content of education internationally.
Globalization and International Education: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Suad-Bakari
Also listed as: AFRICAM C286
The Education of African-American Students: Read Less [-]

EDUC 286 The Education of African-American Students 3 Units
Terms offered: Spring 2012, Fall 2010, Spring 2010
This seminar will examine a wide range of perspectives on the education of African American children and adolescents in the United States. Readings will support students in understanding some of the key issues and tensions in African American education and school achievement, including the roles that culture, identity, parents, families, and communities play in the education and schooling of African American students; systemic issues in educational improvement and the perpetuation of "achievement gaps"; and language and power.
The Education of African-American Students: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Garcia Bedolla
Race, Gender, and Immigration: Citizenship and Education: Read Less [-]

EDUC 287 Race, Gender, and Immigration: Citizenship and Education 3 Units
Terms offered: Spring 2013, Spring 2012, Spring 2011
U.S. citizenship has been defined in racialized and gendered terms since the nation's founding. This course explores how those definitions have affected the historical development of U.S. public schooling, particularly the unequal educational opportunities available to racial minorities and women, and how they have affected American approaches to civic education.
Race, Gender, and Immigration: Citizenship and Education: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Garcia Bedolla
Race, Gender, and Immigration: Citizenship and Education: Read Less [-]
EDUC 288 Intersectionality in Education Research 3 Units
Terms offered: Fall 2013, Fall 2012, Fall 2011
This course is designed to explore the theoretical and methodological questions raised by the concept of intersectionality - the idea that human beings possess multiple identities simultaneously. Most of the work in this area has been theoretical. This course acquaints students with that theoretical literature and helps them apply these theories in their empirical work. The goal is to provide students with the background necessary to incorporate intersectionality into their future research. Intersectionality in Education Research: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Garcia Bedolla

Intersectionality in Education Research: Read Less [-]

EDUC 289 Comprehensive Health Education for Teachers 1 Unit
Terms offered: Spring 2019, Spring 2018, Spring 2017
This course addresses California's requirements for comprehensive school health education, including content areas of health instruction in the California Health Framework for teachers K-12, e.g., nutrition, communicable diseases, drug use and abuse, physical fitness, and community health services. For elementary teachers, the focus is on their responsibilities as primary health instructors. For secondary teachers, the focus is on their role as a member of a comprehensive health team with responsibility for providing adolescents with guidance on decision making regarding consumerism, environmental issues, drugs, and sex.

Comprehensive Health Education for Teachers: Read More [+]

Rules & Requirements
Prerequisites: For students admitted to teacher education programs only

Hours & Format
Fall and/or spring: 2 weeks - 7.5 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

Comprehensive Health Education for Teachers: Read Less [-]

EDUC W289 Comprehensive Health Education for Teachers 1 Unit
Terms offered: Fall 2015, Fall 2014, Fall 2013
This course addresses California's requirements for comprehensive school health education; finding and presenting reliable, trustworthy health information. Elementary teachers will focus on their responsibilities as primary health instructors. Secondary teachers will focus on the meaning and application of health education in their domain. Using a wiki online format the teachers will create one lesson plan, and a rubric for evaluating online health tools. This course is web-based.

Comprehensive Health Education for Teachers: Read More [+]

Rules & Requirements
Prerequisites: For students admitted to teacher education programs only

Hours & Format
Fall and/or spring: 5 weeks - 2 hours of web-based lecture and 2 hours of web-based discussion per week
Online: This is an online course.

Additional Details
Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Formerly known as: 289

Comprehensive Health Education for Teachers: Read Less [-]

EDUC 290A Special Topics Seminars: Policy, Organization, Measurement, and Evaluation 1 - 4 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Topics to vary from semester to semester and section to section.

Special Topics Seminars: Policy, Organization, Measurement, and Evaluation: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of seminar per week
Summer: 8 weeks - 1.5-7.5 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.

Special Topics Seminars: Policy, Organization, Measurement, and Evaluation: Read Less [-]
EDUC 290B Special Topics Seminars: Education in Language, Literacy, and Culture 1 - 4 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Topics to vary from semester to semester and section to section.
Special Topics Seminars: Education in Language, Literacy, and Culture: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of seminar per week
Summer: 6 weeks - 2.5-10 hours of seminar per week
8 weeks - 2-7.5 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Special Topics Seminars: Education in Language, Literacy, and Culture: Read Less [-]

EDUC 290C Special Topics Seminars: Cognition and Development 1 - 4 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Topics to vary from semester to semester and section to section.
Special Topics Seminars: Cognition and Development: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of seminar per week
Summer: 8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Special Topics Seminars: Cognition and Development: Read Less [-]

EDUC 290D Special Topics Seminars: Special Topic Seminar 1 - 4 Units
Terms offered: Fall 2009, Spring 2009, Fall 2008
Topics to vary from semester to semester and section to section.
Special Topics Seminars: Special Topic Seminar: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 15-60 hours of seminar per week
Summer: 8 weeks - 2-7.5 hours of seminar per week
10 weeks - 1.5-6 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Special Topics Seminars: Special Topic Seminar: Read Less [-]

EDUC 290E Special Topics Seminars: Special Topics Seminar 1 - 4 Units
Terms offered: Spring 2016, Spring 2015, Fall 2014
Topics to vary from semester to semester and section to section.
Special Topics Seminars: Special Topics Seminar: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of seminar per week
Summer: 8 weeks - 1.5-7.5 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Special Topics Seminars: Special Topics Seminar: Read Less [-]
EDUC 291 Purposes and Values in Urban Educational Leadership 3 Units
Terms offered: Summer 2003 10 Week Session
This course examines the relationships among multiple and often competing purposes of public education, dilemmas rooted in a history of persistent race- and class-linked inequities in American schools, and the possibilities and challenges of educational leadership. It highlights the pursuit of educational quality and equity in urban school systems as the organizing problem for educational leadership. Students will use research to analyze leadership practices to strengthen urban education.

Rules & Requirements
Prerequisites: Admission to the Joint Doctoral Program in Urban Educational Leadership

Hours & Format
Summer: 8 weeks - 6 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Grubb

EDUC 293A Data Analysis in Education Research 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Introduces students to quantitative statistical methods for educational research. Emphasizes parameter estimation and hypothesis testing, in particular of group differences based on means, medians, proportions and correlation coefficients. Section 1 takes a conceptual and heuristic approach and includes a module on distribution free statistics. Section 2 takes an algebraic approach and includes a module on multiple regression. High school algebra is strongly recommended for section 2.

Rules & Requirements
Prerequisites: Consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week
Summer: 6 weeks - 10 hours of lecture per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.

EDUC 291A The Educational System of the United States 3 Units
Terms offered: Fall 2012, Fall 2011, Fall 2009
Historical development and contemporary status of principal features of American schooling and major issues of policy and practice. The course will focus primarily upon public elementary and secondary schools. The course will stress relationships between education and other sectors of society.
The Educational System of the United States: Read More [+]

Rules & Requirements
Prerequisites: Graduate standing

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Grubb

EDUC 293L Educational Data Analysis Laboratory 1 Unit
Terms offered: Fall 2018, Fall 2017, Fall 2016
Exercises and computer programs are presented and discussed.

Rules & Requirements
Prerequisites: Must be taken concurrently with 293A

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of laboratory per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.

Educational Data Analysis Laboratory: Read Less [-]
EDUC 293V Video-Analysis Seminar 1 - 3 Units
Terms offered: Spring 2018, Fall 2014, Spring 2013
This ongoing seminar is for anyone devoting a significant portion of a given semester to analyzing videotaped records as part of their research. Video-based data are now ubiquitous in educational research and this group is designed to help us all become more savvy at analyzing them. Strands of the seminar, each worth 1 unit of credit, are devoted to participating in video-analysis sessions, reading about video-analysis methods, and completing a paper on your own video-analysis project.

Video-Analysis Seminar: Read More [+]

Rules & Requirements
Prerequisites: Graduate standing or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1-3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Engle

Video-Analysis Seminar: Read Less [-]

EDUC 294B Thesis Seminar--ELLC 1 - 6 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Recommended for students working on seminar papers, qualifying papers, theses, and dissertation proposals in language and literacy studies. # Section 1: Recommended for Ed.D. students and M.A. students working on curriculum projects. # Section 2: Recommended for Ph.D. students and M.A. students working on research studies.

Thesis Seminar--ELLC: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1-3 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.

Formerly known as: Education in Language and Literacy 294
Thesis Seminar--ELLC: Read Less [-]

EDUC 294C Seminar on Formulation of Educational Research 1 - 4 Units
Terms offered: Spring 2012, Spring 2011, Spring 2010
Discussion of criteria for useful educational research. Emphasis is on applying these criteria while developing plans for research on topics of interest to the participants.

Seminar on Formulation of Educational Research: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit up to a total of 8 units.

Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of seminar per week

Additional Details
Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

Formerly known as: Education in Mathematics, Science, and Technology 294
Seminar on Formulation of Educational Research: Read Less [-]
EDUC 294E Thesis Seminar 1 - 4 Units
Terms offered: Spring 2018, Fall 2017, Spring 2017
Recommended for M.A. students working on seminar papers or theses, and doctoral students preparing dissertation proposals.
Thesis Seminar: Read More [+]
Rules & Requirements
Prerequisites: Good standing in the LEEP
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 3-12 hours of discussion per week
Summer: 8 weeks - 5.5-22.5 hours of discussion per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Formerly known as: Educational Psychology 294E
Thesis Seminar: Read Less [-]

EDUC 295B Technology, Curriculum, and Instruction 3 Units
Terms offered: Spring 2019, Spring 2017, Spring 2015
To explore the cognitive consequences of technology in instruction and learning, the promise of technology in education will be examined, and exemplary instructional software will be explored. A model of knowledge acquisition and knowledge change incorporating technological delivery of instruction will be developed.
Technology, Curriculum, and Instruction: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of seminar per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Instructor: Linn
Formerly known as: Education in Mathematics, Science, and Technology 291B
Technology, Curriculum, and Instruction: Read Less [-]

EDUC 295C Integrating Technology into Secondary English Instruction 4 Units
This course will cover (a) basic skills in using computer hardware and software, (b) knowledge of the legal and ethical issues surrounding the use of computers in classroom instruction, (c) communicating through a variety of electronic media, (d) designing, adapting, and using lessons based upon the technological resources available in the classroom or school setting, (e) optimizing lessons (f) contributing to planning the use of technological resources in the school setting.
Integrating Technology into Secondary English Instruction: Read More [+]
Rules & Requirements
Prerequisites: Admission into the MUSE Credential/MA Program
Hours & Format
Fall and/or spring: 15 weeks - 3.5 hours of lecture and .5 hours of laboratory per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Letter grade.
Integrating Technology into Secondary English Instruction: Read Less [-]

EDUC 298A Group Study for Graduate Students--POME 1 - 5 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Research on special problems and topics not covered by regular courses or seminars. Topics will vary in different semesters.
Group Study for Graduate Students--POME: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-5 hours of lecture per week
Summer: 6 weeks - 2.5-12 hours of lecture per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Group Study for Graduate Students--POME: Read Less [-]
EDUC 298B Group Study for Graduate Students--LLSC 1 - 3 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Research on special problems and topics not covered by courses or seminars.
Group Study for Graduate Students--LLSC: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format
Fall and/or spring: 15 weeks - 1-3 hours of lecture per week
Summer:
6 weeks - 2.5-7.5 hours of lecture per week
8 weeks - 1.5-5.5 hours of lecture per week
10 weeks - 1.5-4.5 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: The grading option will be decided by the instructor when the class is offered.
Formerly known as: Education in Language and Literacy 298
Group Study for Graduate Students--LLSC: Read Less [-]

EDUC 298C Group Studies, Seminars, or Group Research--DCEMST 1 - 4 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Advanced group study in education. Topics vary from semester to semester. May consist of organized lectures or seminar discussions, related chiefly to the research area in which the group is working.
Group Studies, Seminars, or Group Research--DCEMST: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 1-4 hours of lecture per week
Summer:
6 weeks - 2.5-7.5 hours of lecture per week
8 weeks - 1.5-6 hours of lecture per week
10 weeks - 1.5-6 hours of lecture per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Letter grade.
Formerly known as: Education in Mathematics, Science, and Technology 298
Group Study for Graduate Students--LLSC: Read Less [-]

EDUC 298E Group Study and Research 1 - 6 Units
Terms offered: Spring 2014, Spring 2013, Spring 2012
Group study and research on special problems and topics.
Group Study and Research: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 1-6 hours of seminar per week
Summer: 6 weeks - 2.5-15 hours of seminar per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Formerly known as: Educational Psychology 298
Group Study and Research: Read Less [-]

EDUC 299 Special Study and Research 1 - 12 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Special study or research under direction of a faculty member. One unit of credit for every four hours of conference and independent research time per week.
Special Study and Research: Read More [+]

Rules & Requirements

Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Special Study and Research: Read Less [-]
EDUC N299 Special Study and Research 1 - 6 Units
Terms offered: Summer 2016 10 Week Session, Summer 2015 10 Week Session, Summer 2013 10 Week Session
Special study or research under direction of a faculty member. One unit of credit for every 8 hours of conference and independent research time per week.
Special Study and Research: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Summer: 8 weeks - 1-6 hours of independent study per week
Additional Details
Subject/Course Level: Education/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Special Study and Research: Read Less [-]

EDUC 301A The Teaching of Writing 4 Units
Terms offered: Summer 1996 10 Week Session
A study of recent research and trends in the teaching of composition in secondary schools. In this class, teacher participants are trained to be Bay Area Writing Project (BAWP) Teacher/Consultants who conduct workshops in schools and districts.
The Teaching of Writing: Read More [+]
Rules & Requirements
Prerequisites: 301B or equivalent. Enrollment limited to educators invited to participate in BAWP Consultant Training Program
Hours & Format
Summer: 5 weeks - 24 hours of lecture per week
6 weeks - 7.5 hours of lecture per week
8 weeks - 7.5 hours of lecture per week
Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Letter grade.
Formerly known as: Summer Program for Educators 305
The Teaching of Writing: Read Less [-]

EDUC 305 California Literature Project Seminar 3 Units
Terms offered: Prior to 2007
This workshop/seminar introduces teachers to literature-based, student-centered literacy instruction. The course is designed to help K-12 teachers apply the California English/Language Arts Framework, the K-8 Model Curriculum Guidelines, and the 9-12 Model Curriculum Standards. Participants will develop a literature-based curriculum plan for their own classrooms.
The Teaching of Writing: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Summer: 2 weeks - 30 hours of workshop per week
Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Letter grade.
Formerly known as: Summer Program for Educators 305
California Literature Project Seminar: Read Less [-]

EDUC 375 The Art Of Teaching 1 - 6 Units
Terms offered: Spring 2019, Spring 2016, Fall 2015
Consultation and analysis for teaching assistants.
The Art Of Teaching: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 1-6 hours of seminar per week
Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Instructor: Hull
The Art Of Teaching: Read Less [-]
**EDUC 390A Supervised Teaching for Secondary English 7 Units**
Terms offered: Fall 2018, Fall 2017, Fall 2016
Twenty-four to twenty-eight hours of supervised teaching in public school classrooms and one hour of lecture per week. Sequence begins with the fall semester.
Supervised Teaching for Secondary English: Read More [+]

Rules & Requirements

**Prerequisites:** Admission to a teaching credential program

**Hours & Format**

Fall and/or spring: 15 weeks - 1 hour of lecture and 24-28 hours of fieldwork per week

**Additional Details**

Subject/Course Level: Education/Professional course for teachers or prospective teachers

Grading: Letter grade.

Instructor: Cziko

Formerly known as: Education in Language and Literacy 390A-390B

Supervised Teaching for Secondary English: Read Less [-]

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**EDUC 390B Supervised Teaching for Secondary English 8 Units**
Terms offered: Spring 2019, Spring 2018, Spring 2017
Twenty-four to twenty-eight hours of supervised teaching in public school classrooms and one hour of lecture per week. Sequence begins with the fall semester.
Supervised Teaching for Secondary English: Read More [+]

Rules & Requirements

**Prerequisites:** Admission to a teaching credential program

**Hours & Format**

Fall and/or spring: 15 weeks - 1 hour of lecture and 24-28 hours of fieldwork per week

**Additional Details**

Subject/Course Level: Education/Professional course for teachers or prospective teachers

Grading: Letter grade.

Instructor: Cziko

Formerly known as: Educational Psychology 390

Supervised Teaching in Elementary Education: Read Less [-]

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**EDUC 390C Supervised Teaching in Elementary Education 1 - 8 Units**
Terms offered: Spring 2019, Fall 2018, Spring 2018
Fieldwork for teaching credential. Supervised teaching may begin with the opening of the public schools in the fall and extend through the spring semester.
Supervised Teaching in Elementary Education: Read More [+]

Rules & Requirements

**Prerequisites:** Admission to a teaching credential program

**Repeat rules:** Course may be repeated for credit without restriction.

**Hours & Format**

Fall and/or spring: 15 weeks - 1-3 hours of lecture and 2-20 hours of fieldwork per week

**Summer:** 8 weeks - 2-6 hours of lecture and 6-40 hours of fieldwork per week

**Additional Details**

Subject/Course Level: Education/Professional course for teachers or prospective teachers

Grading: Letter grade.

Instructor: Salasin

Formerly known as: Educational Psychology 390

Supervised Teaching in Elementary Education: Read Less [-]
EDUC 390D Supervised Teaching in Mathematics and Science for Secondary Schools 2 - 6 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
Fieldwork for teaching credential. Supervised teaching may begin with the opening of the public schools in the fall and extend through the spring semester.
Supervised Teaching in Mathematics and Science for Secondary Schools: Read More [+]
Rules & Requirements
Prerequisites: Admission to credential program
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 2-10 hours of fieldwork per week
Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Letter grade.
Instructor: Zimmerlin
Formerly known as: Education in Mathematics, Science, and Technology 390
Supervised Teaching in Mathematics and Science for Secondary Schools: Read Less [-]

EDUC 391A Technology, Curriculum, and Instruction 1 Unit
Meets level 1 technology for the California Multiple Subject Credential. Introduction to basic computer skills and applications.
Technology, Curriculum, and Instruction: Read More [+]
Rules & Requirements
Prerequisites: Admission to Developmental Teacher Education Program
Hours & Format
Fall and/or spring: 4 weeks - 4 hours of lecture and 8 hours of laboratory per week
Summer: 8 weeks - 2 hours of lecture and 4 hours of laboratory per week
Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Letter grade.
Instructor: Eslinger
Technology, Curriculum, and Instruction: Read Less [-]

EDUC 392C Arts Integration in K-12 Classrooms 1 Unit
Terms offered: Summer 2013 10 Week Session, Fall 2012, Spring 2012
This course provides an introductory understanding of the role, value, and issues of arts integration. The readings, discussions, and activities are concerned with promoting engagement and critical thinking through creativity, basic concepts related to children's creative production, perceiving and responding to the arts, teacher creative identity, and planning for arts integration instruction.
Arts Integration in K-12 Classrooms: Read More [+]
Rules & Requirements
Prerequisites: Admission to BE3 Education Program
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Summer: 8 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Letter grade.
Arts Integration in K-12 Classrooms: Read Less [-]

EDUC 393 Preparation for Completion of the California TPA 1 Unit
Terms offered: Spring 2019, Fall 2018, Spring 2018
This course is designed to support candidates as they prepare for and complete the Elementary Mathematics Performance Assessment for CA teachers (PACT). The PACT is required for all credential candidates prior to recommendation for credentialing as designated by the state of California. Candidates will become familiar with the requirements for the PACT, begin planning their teaching event, view, share, and critique "work in progress," read and respond to relevant articles, review guidelines for preparing video records of teaching practice, and design scoring criteria for assessing student work.
Preparation for Completion of the California TPA: Read More [+]
Rules & Requirements
Prerequisites: Completion of required first year course work and field placements in the Developmental Teacher Education Program
Hours & Format
Fall and/or spring: 15 weeks - 1.5 hours of lecture and 2 hours of discussion per week
Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Preparation for Completion of the California TPA: Read Less [-]
EDUC 399 Special Study for Educators 1 - 4 Units
Terms offered: Summer 1996 10 Week Session, Summer 1995 10 Week Session
Special study of professional topics under direction of a faculty member.
One unit of credit for every 7 hours of consultation and special study per week.
Special Study for Educators: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Summer:
5 weeks - 1-4 hours of independent study per week
6 weeks - 1-5 hours of independent study per week
8 weeks - 1-4 hours of independent study per week

Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Special Study for Educators: Read Less [-]

EDUC 399S Special Study for Educators 1 - 4 Units
Terms offered: Summer 1992 10 Week Session
Special study of professional topics under direction of a faculty member.
One unit of credit for every 7 hours of consultation and special study per week.
Special Study for Educators: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Summer:
8 weeks - 0 hours of independent study per week

Additional Details
Subject/Course Level: Education/Professional course for teachers or prospective teachers
Grading: Letter grade.
Special Study for Educators: Read Less [-]

EDUC 413A Community-Based Internship in School Psychology 2 - 7 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Supervised assignment to a community mental health agency in the capacity of school psychologist.
Community-Based Internship in School Psychology: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2-7 hours of lecture per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Instructor: Crovetti
Community-Based Internship in School Psychology: Read Less [-]

EDUC 413B Community-Based Internship in School Psychology 2 - 7 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Supervised assignment to a community mental health agency in the capacity of school psychologist.
Community-Based Internship in School Psychology: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 4-16 hours of internship per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Instructor: Crovetti
Community-Based Internship in School Psychology: Read Less [-]
EDUC 413C School-Based Internship in School Psychology 2 - 8 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Supervised assignment to a school district in the capacity of school psychologist.
School-Based Internship in School Psychology: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2-8 hours of lecture per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Instructor: Yabrove

School-Based Internship in School Psychology: Read Less [-]

EDUC 413D School-Based Internship in School Psychology 2 - 8 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Supervised assignment to a school district in capacity of school psychologist.
School-Based Internship in School Psychology: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 4-20 hours of internship per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Instructor: Yabrove

School-Based Internship in School Psychology: Read Less [-]

EDUC 413L Consultation for School Psychology Students 1 Unit
Terms offered: Spring 2019, Fall 2018, Spring 2018
Consultation for School Psychology Students: Read More [+]

Rules & Requirements
Prerequisites: Must be taken concurrently with 213C-213D and 413C-413D
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1 hour of independent study and 6 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Offered for satisfactory/unsatisfactory grade only.
Consultation for School Psychology Students: Read Less [-]

EDUC 460A Practicum in School Site Management I 3 Units
Terms offered: Fall 2016, Summer 2016 10 Week Session, Fall 2015
Supervised field experience, conferences, and colloquium.
Practicum in School Site Management I: Read More [+]

Rules & Requirements
Prerequisites: Admission to Administrative Services Credential program

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Practicum in School Site Management I: Read Less [-]
EDUC 460B Practicum in School Site Management 1 or 2 Units
Terms offered: Spring 2019, Spring 2018, Fall 2017
Supervised field experience, conferences, and colloquium. Practicum in School Site Management: Read More [+]

Rules & Requirements
Prerequisites: 460B
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 3-6 hours of fieldwork per week
Summer: 6 weeks - 7.5-15.5 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.

Practicum in School Site Management: Read Less [-]

EDUC 460C Research Practicum in Administration 1 - 3 Units
Terms offered: Spring 2019, Summer 2018 8 Week Session, Spring 2018
During the fall semester, students complete 294A in which the preliminary Leadership Action Research Project is designed - a summative assessment for the Principal Leadership Institute and the MA program at Berkeley. Through the LARP process, students engage in a cycle of inquiry about a problem or concern that matters to their overall leadership agenda and creates more equitable spaces in urban schools. In this course, students solidify the design of their LARP, take leadership action to implement their action plan, reflect on the action plan, revise the action plan - and make changes as appropriate - thus, engaging actively in the cycle of inquiry. Research Practicum in Administration: Read More [+]

Rules & Requirements
Prerequisites: 294A
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1 hour of lecture and 3-6 hours of fieldwork per week
Summer: 6 weeks - 2.5 hours of lecture and 7.5-15 hours of fieldwork per week
8 weeks - 2 hours of lecture and 6-12 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Instructor: Cheung

Research Practicum in Administration: Read Less [-]

EDUC 470A Residency: Introduction to School Districts 3 Units
Terms offered: Spring 2008, Fall 2006, Fall 2005
This course is designed to expose students to the role and purpose of school systems. It addresses the school district as service centers for schools as well as leaders of education reform, and explores the relationship between the district and its schools and why and how each serves as a collaborative function to improve and facilitate education excellence. Residency: Introduction to School Districts: Read More [+]

Rules & Requirements
Prerequisites: Good standing in LEEP
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 3 hours of fieldwork per week
Summer: 8 weeks - 4 hours of lecture and 6 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Instructor: Love

Residency: Introduction to School Districts: Read Less [-]
EDUC 470B Residency: Excellence and Equity and Systemic Reform 3 Units
Terms offered: Summer 2011 10 Week Session, Summer 2009 10 Week Session, Spring 2009
Students will meet weekly for one hour with a residency adviser at one of the following campuses: San Francisco State University; California State University, East Bay; or San Jose State University. The residency will require six hours weekly at a school district site to conduct research on curriculum, instruction, assessment, and professional development topics selected by students in conjunction with their faculty counselors and residency advisers in collaboration with the district consultant. An additional two hours weekly will be dedicated to preparation of case study materials from the residency assignment. Students will be expected to present the results of their residency research to the faculty and students of the Joint Doctoral Program.

Residency: Excellence and Equity and Systemic Reform: Read More [+]

Prerequisites: 470A, Good standing in LEEP
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 3 hours of fieldwork per week
Summer: 8 weeks - 4 hours of lecture and 6 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Instructor: Mintrop

Residency: Excellence and Equity and Systemic Reform: Read Less [-]

EDUC 470C Residency: Decision Making and Resource Management 3 Units
Terms offered: Summer 2012 10 Week Session, Summer 2012 8 Week Session, Summer 2010 10 Week Session
Residencies are a central part of the LEEP curriculum. The goals of the residencies are to give students a first-hand experience of the workings of district or system level administration and encourage them to conduct systematic inquiries in this setting; help them make the transition from school-based actors to district-based actors with an appreciation for systemic and political aspects of that role; anchor theoretical knowledge acquired in campus-based seminars in the practice of management and leadership; and prepare for their dissertation projects.

Residency: Decision Making and Resource Management: Read More [+]

Prerequisites: 470A, Good standing in LEEP
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 3 hours of fieldwork per week
Summer: 8 weeks - 4 hours of lecture and 6 hours of fieldwork per week

Additional Details
Subject/Course Level: Education/Other professional
Grading: Letter grade.
Instructor: Coburn

Residency: Decision Making and Resource Management: Read Less [-]

EDUC 601 Individual Study for Master’s Students 1 - 8 Units
Terms offered: Spring 2015, Spring 2014, Spring 2013
Individual study for the master’s examination in consultation with a faculty adviser. One unit of credit for each four hours of conference and independent research per week.

Individual Study for Master’s Students: Read More [+]

Prerequisites: Consent of instructor
Credit Restrictions: Course does not satisfy unit or residence requirements for master’s degree.
Repeat rules: Course may be repeated for credit up to a total of 16 units.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details
Subject/Course Level: Education/Graduate examination preparation
Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Master’s Students: Read Less [-]
EDUC 602 Individual Study for Doctoral Students 1 - 8 Units
Terms offered: Spring 2009, Fall 2008, Spring 2008
Individual study in preparation for the doctoral qualifying examination.
One unit of credit for each four hours of conference and independent research per week.

Rules & Requirements

Prerequisites: Consent of instructor

Credit Restrictions: Course does not satisfy unit or residence requirements for doctoral degree.

Repeat rules: Course may be repeated for credit up to a total of 16 units.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details

Subject/Course Level: Education/Graduate examination preparation

Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Doctoral Students: Read Less [-]