

Bachelor of Science in Education Sciences; Transforming Education Through Research & Practice

The Bachelor of Science in Education Sciences; Transforming Education Through Research & Practice will provide you with opportunities to explore the complex social, psychological, economic, historical, political, and cultural issues that impact our lives. Our overarching mission is to provide the resources for you to combine interactive academic coursework, hands-on service-learning experiences, and a deep understanding about the relationship between research and educational issues. You will reflect deeply on underlying educational principles and gain the insight needed to become advocates for equity and social justice within our society. Students are guided to develop an understanding of research and theory within the realities of practice and to use practice to reevaluate both research and theory.

The B.S. in Education Sciences provides interdisciplinary opportunities for undergraduate students. Graduates are prepared for careers in the global knowledge economy, with opportunities to apply learning modalities and technologies in multicultural contexts. Graduates may choose from career opportunities such as public education, public health, higher education, educational policy, non-profit organizations, and curriculum development. Many graduates will pursue advanced degrees leading to teacher credentialing or educational research. Graduates may also pursue careers in public education supporting students through counseling, school psychology, or student affairs.

The Major

To receive a B.S. with a major in Education Sciences, students must meet the following requirements: **one lower division course (at least 2 units) and a total of 11 upper division courses (at least 50 units), with a minimum of 6 courses within the Education Studies Department.**

Lower Division Introduction to Education Requirements

Students completing the major must complete ONE lower division introductory course as a pre-requisite to completing upper division courses for the major.

- EDS 30/Math 95. Introduction to Math Teaching (2)
- EDS 31/Chem 96. Introduction to Teaching Science (2)
- EDS 38. Explorations in Education (2)
- EDS 39. Explorations in Secondary STEM Education (2)
- SOCI 60. The Practice of Social Research (4)
- HDS 1. Introduction to Human Development (4)

Upper Division Course Requirements

1. Education in a Diverse Society

Students will select ONE course

- EDS 112. Urban Education in the United States (4)
- EDS 113. Chicanas/os and Latinos in Education: Policy, Practice, and Challenges to Equity (4)
- EDS 117/SOCI117. Language, Culture and Education (4)
- EDS 125. History, Politics, and Theory of Bilingual Education (4) – REQUIRED for BLA program (within the graduate Teacher Education program).
- EDS 126. Social Organization of Education (4)
- SOCI 152. Social Inequality and Public Policy (4)

2. Learning & Development

Students will select TWO courses

- EDS 114. Cognitive Development & Interactive Computing Environments (4)
- EDS 115. Cognitive Development and Education (4)
- EDS 118. Adolescent Development and Education (4)
- EDS/LIGN 119. First and Second Language Learning: From Childhood through Adolescence (4)
- HDS 120. Language Development (4)
- HDS 122. Social Development (4)
- HDS 133. Sociocultural Foundations of Human Dev. (4)

3. Introduction to Learning Contexts

Students will select at least ONE course. **EDS 139 (Practicum in Teaching Learning – 2 units) is a co-requisite course required for all Introduction to Learning Contexts courses with the exception of EDS 135.**

- EDS 130. Introduction to Academic Mentoring of Elementary/School Students (4)
- EDS 131. Early Childhood Development and Education (4)
- EDS 133: Counseling and Advising (4)
- EDS 135: Newcomers in San Diego (6)
- EDS 136. Introduction to Academic Tutoring of Secondary School Students (4)
- EDS 137. Introduction to Discipline-Specific Teaching and Learning (4)

4. Educational Research

Students must complete TWO courses in research methodology. One course must address qualitative research methods and one course must address quantitative research methods.

Qualitative Research Courses

- EDS 102. Introduction to Qualitative Methods in Education Research (4)
**Or equivalent course with department approval*
- SOCI 110. Qualitative Research in Educational Settings (4)

Quantitative Research Courses

- EDS 103. Introduction to Quantitative Analysis in Education Research (4)
**Or equivalent course with department approval*
- SOCI 109. Analysis of Sociological Data (4)

5. Senior Educational Fieldwork Capstone sequence

Students will select one fieldwork pathway and complete the course sequence of the pathway. **EDS 139 (Practicum in Teaching Learning – 2 units) is a co-requisite course required for ALL Educational Fieldwork courses.**

Pathway 1. Educational Action Research Fieldwork

- EDS 140. Introduction to Action Research in PK–12 Education (4)
- EDS 141. Action Research in PK–12 Education: Advanced Practicum in Pre-K–12 Schools and Communities (4)

Pathway 2. Elementary School (P-6) Teaching Fieldwork

- EDS 128A. Introduction to Teaching and Learning (Elementary) (4)
- EDS 128B. Introduction to Teaching and Learning (Elementary) (4)

Undergraduate majors who complete Pathway 2 will have satisfied the Foundations requirements and be eligible to apply to the Professional Preparation year of the M.Ed./Credential program for Multiple Subjects.

Pathway 3. Secondary School (6-12) Teaching Fieldwork

(students who choose this pathway MUST double major with a major in their content area. You cannot receive a California Teaching credential in Single Subjects with only a professional degree in education).

- EDS 129A. Introduction to Teaching and Learning (Secondary) (4)
- EDS 129B. Introduction to Teaching and Learning (Secondary) (4)
- EDS 129C. Introduction to Teaching and Learning (Secondary) (4)

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Undergraduate majors who complete Pathway 3 will have satisfied the Foundations requirements and be eligible to apply to the Professional Preparation year of the M.Ed./Credential program for Single Subjects. To see a complete list of Admissions requirements, including **Subject Matter Competency**, please visit our website: eds.ucsd.edu.

6. Upper Division Focus Area Elective courses

Students will complete at least THREE upper division elective courses. (unless completing Pathway 3 for Secondary Education, which requires a minimum of two upper division elective courses).

Students are encouraged but not required to pick an area of focus, and may choose from the upper-division electives listed. Students may also define their own area of focus, selecting from courses offered by EDS and other related departments with department approval.

EDS 199, Independent Study, taken for Pass/No Pass, may count for ONE EDS upper-division elective course. Elective courses may be from more than one focus area.

P-12 Education

- EDS 111 Child, Family and Community Partnerships with Schools (4)
- EDS/MATH 121A. Foundations of Teaching and Learning Math (4)
- EDS/MATH 121B. Foundations of Teaching and Learning Math (4)
- EDS 122/CHEM 187. Teaching and Learning Science (4)
- EDS 123/CHEM 188. Teaching and Learning Science (4)
- EDS 124AR Teaching Computation in the Digital World (4)
- EDS 124BR Teaching Computational Thinking for Everyone (4)

Education Policy

- ECON 147 Economics of Education (4)

- USP 104. Ethnic Diversity and the City (4)
- USP 116. California Local Government: Finance and Administration (4)
- SOCI 127. Immigration, Race, and Ethnicity (4)
- SOCI 139. Social Inequality: Class, Race, and Gender (4)

Research in Education

- EDS 120. Introduction to Design-Based Research in Education (4)
- ETHN 100A. Ethnic Studies: Theoretical Approaches (4)
- ETHN 100B. Interdisciplinary Methodologies (4)
- SOCI 102. Network Data and Methods (4)
- SOCI 108. Survey Research Design (4)
- SOCI 122. Social Networks (4)
- USP 125. The Design of Social Research (4)

Diverse Learning Settings

- EDS 116. Equity Minded Education (4)
- COMM 168. Bilingual Communication (4)
- COMM 169. Deaf Culture in the U.S. (4)
- ETHN 144. Bilingual Communities in the USA (4)

Senior Seminar

- EDS 180. Topics in Education Studies (4)

To satisfy the requirements for the major, lower- and upper-division courses must be completed with a P, C-, or better grade.

Except for independent study course electives (EDS 197, 198, or 199) which are always taken with a Pass/No Pass grade option, students majoring in Transformational Education Through Research & Practice may take up to two courses, either lower or upper division, with a Pass/No Pass option.

Sample Student Course Plan

	Fall Quarter	Winter Quarter	Spring Quarter
Freshman	EDS Freshman Seminar (1) GE (4) GE (4) Elective (4)	GE (4) GE (4) GE (4) Elective (4)	GE (4) GE (4) Elective (4) Elective (4)
Sophomore	EDS LD (2) GE (4) GE (4) Elective (4)	GE (4) GE (4) Elective (4) Elective (4)	GE/DEI (4) GE (4) Elective (4) Elective (4)
Junior	EDS102 (4) EDS117 (4) GE (4) GE (4)	EDS103 (4) EDS115 (4) GE (4)	EDS118 (4) EDS136/139 (6) GE (4)
Senior	EDS UD Elective (4) EDS UD Elective (4) Elective (4)	EDS140/139 (6) EDS UD Elective (4) Elective (4)	EDS141/139 (6) Elective (4) Elective (4)

*50 Upper Division units and 2 Lower Division units in major