The degree consists of a minimum of 50 units (plus 18 dissertation units). 26 of those units (52%) are common for all students.

**Common Curriculum (26 units) (52% of total units not including dissertation)**

- **TLS Major Core (7 units)**
  - First Year Doctoral Seminar (TLS 696C) (1 unit)
  - Research on Teaching (TLS 696B) (3 units)
  - Research on Teacher Education (TLS 696A) (3 units)

- **Research Methods (Minimum of 13 units)**
  - Quantitative/Inferential Methods in Education (EDP 541) (4 units)
  - Qualitative Methods in Education (TLS 605 or HED 605) (3 units)
  - Advanced Quantitative or Qualitative Course (selected in consultation with advisor) (3 units)
  - Dissertation Proposal Design (TLS 602) (3 units)

- **Research Experience (6 units)**
  - Internship: Classroom Research TLS 793 (6 units)

**Concentrations (24 units) (48% of total units not including dissertation)**

**Subplan “Equity and Social Justice in Education (ESJE)”**

- **Major Supporting Coursework (minimum of 15 units)**
  - Optional: Curriculum Theory and Policy (TLS 545, 3 units)
  - Optional: Equity in Schools and Society (TLS 537, 3 units)
  - Optional: Equity, Diversity, and Social Justice in Math/Science Education (TLS 541, 3 units)
  - Optional: Teaching Mexican American Students (TLS 596c, 3 units)
  - Optional: Education of Latina/os (TLS/MAS 575, 3 units)
  - Optional: Immigration and Education (TLS 641, 3 units)
  - Optional: Education and Sustainability (TLS 560, 3 units)
  - Optional: Groupwork in Diverse Classrooms (TLS 580, 3 units)
  - Optional: Indigenous Knowledge in Mathematics and Science (TLS 596c, 3 units)
  - Optional: Special Topics in Teacher Education (when the course has a social justice focus) (TLS 596c, 3 units)
  - Optional: The Rights of the Child: Global Perspectives and Responsibilities (TLS 595, 3 units)
  - Optional: Language and Culture in Education (TLS 504, 3 units)
  - Optional: Multicultural Education and Social Justice (TLS 640, 3 units)

**Minor (9 units)**

A minor within Teaching & Teacher Education or a minor in Language, Reading, and Culture; Gender & Women’s Studies; Anthropology; Mexican American Studies; American Indian Studies; Africana Studies; Arid Lands Resource Sciences; Natural Resources; Sociology; Special Education or in another area deemed appropriate by the candidate’s committee.

**Subplan “Environmental Learning”**

- **Major Supporting Coursework (minimum of 15 units)**
  - Required: Environmental Learning (TLS 530, 3 units)
  - Required: Education and Sustainability (TLS 560, 3 units)
Optional: Comparative Education (TLS 596c, 3 units)
Optional: Earth Education (TLS 596c, 3 units)
Optional: Internship (TLS 593, 3 units)
Optional: relevant courses selected in consultation with advisor
Minor (9 units)

A minor in Anthropology, Ecology, Environmental Science, Environmental Studies, Geography, Natural Resources, Sustainable Architecture and Design, and other related fields or a minor with Teaching and Teacher Education.

Subplan “Science Education”
Major Supporting Coursework (minimum of 15 units)
Required: Learning in Science and Mathematics (TLS 519, 3 units)
Required: Equity, Diversity, and Social Justice in Math/Science Education (TLS 541, 3 units)
Required: School Mathematics and Science: History, Curriculum, and Reform (TLS 596c, 3 units)
Optional: Research on Preparing Elementary Teachers in Mathematics and Science (TLS 538, 3 units)
Optional: Groupwork in Diverse Classrooms (TLS 592, 3 units)
Optional: Indigenous Knowledge in Mathematics and Science (TLS 596c, 3 units)
Optional: Discourse and Identity (TLS 596c, 3 units)
Optional: relevant courses selected in consultation with advisor
Minor (9 units)

A minor in a science department or a minor within Teaching & Teacher Education.

Subplan “Mathematics Education”
Major Supporting Coursework (minimum of 15 units)
Required: Learning in Science and Mathematics (TLS 519, 3 units)
Required: Equity, Diversity, and Social Justice in Math/Science Education (TLS 541, 3 units)
Required: School Mathematics and Science: History, Curriculum, and Reform (TLS 596c, 3 units)
Optional: Research on Preparing Elementary Teachers in Mathematics and Science (TLS 538, 3 units)
Optional: Groupwork in Diverse Classrooms (TLS 592, 3 units)
Optional: Indigenous Knowledge in Mathematics and Science (TLS 596c, 3 units)
Optional: Discourse and Identity (TLS 596c, 3 units)
Optional: relevant courses selected in consultation with advisor
Minor (9 units)

A minor in Mathematics or a minor within Teaching & Teacher Education.

Subplan “Teaching Mexican American Students”
Major Supporting Coursework (minimum of 15 units)
Required: Teaching Mexican American Students (TLS 596c, 3 units)
Required: Equity in Schools and Society (TLS 537, 3 units)
Required: Education of Latina/os (TLS/MAS 575, 3 units)
Optional: Immigration and Education (TLS 641, 3 units)
Optional: Foundations of Second Language Acquisition (TLS 510, 3 units)
Optional: Public History in Mexican American Communities (MAS 595, 3 units)
Optional: The U.S.-Mexican Borderlands in Comparative Perspective (MAS 529, 3 units)
Optional: Assessment of Bilingual Exceptional Learners (SERP 535)
Optional: Teaching Bilingual Exceptional Learners (SERP 536)
Optional: relevant courses selected in consultation with advisor
Minor (9 units)

A minor in Language, Reading & Culture; Mexican American Studies; or other relevant department, or a minor within Teaching & Teacher Education.
Subplan “Early Childhood Education”

Major Supporting Coursework (minimum of 15 units)
Optional: Developing Programs for Young Children (TLS 528, 3 units)
Optional: Theories of Development in Early Childhood (TLS 596c, 3 units)
Optional: Observation and Documentation as Tools for Assessing Children and Family Stories (TLS 595a, 3 units)
Optional: Early Literacy Curriculum & Instruction (TLS 532, 3 units)
Optional: Art of the Picture Book (TLS 582, 3 units)
Optional: Literature and Literacy for the Young Child (TLS 584, 3 units)
Optional: Language Acquisition and Development (TLS 652, 3 units)
Optional: Written Language Development (TLS 653, 3 units)
Optional: Early Childhood Perspectives on Language Socialization across Cultures (TLS 595a, 3 units)
Optional: relevant courses selected in consultation with advisor

Minor (9 units)
A minor in a relevant department, or a minor within Teaching & Teacher Education.