Degree Requirements: Science Education PhD

**Interdepartmental Core** (9 SCH)

- SCE 6351: Curriculum Design in Science Education (3)
- SCE 5147: Perspectives on Learning in Science Education
- EDF 5641: Introduction to Policy Studies in Education (3) or EDF 5652: Policy Development in Education (3)

**Seminars** (4 SCH)

- SCE 5946r: Supervised Teaching I (1)
- SCE 5946r: Supervised Teaching II (1)
- STE Seminar 1 (1) - TBA
- STE Seminar 2 (1) – TBA

**Research Methods Core** (20 SCH)

Research Rotations (Required)
- SCE 5910r: Supervised Research I (1)
- SCE 5910r: Supervised Research II (1)

Quantitative Techniques (at least 9 SCH)
- EDF 5400: Descriptive and Inferential Statistics (4)
- EDF 5401: General Linear Modeling Applications (4)
- EDF 5402: Advanced Topics in Analysis of Variance (3)
- EDF 5410: Nonparametric Analysis Applications (3)
- EDF 6937: Seminar in Advanced Research Problems – HLM (3)

Qualitative Techniques (at least 6 SCH)
- EDF 6475: Qualitative Methods in Educational Research (3)
- EDF 6479: Qualitative Data Analysis (3)

**Major** (18 SCH)

- SCE 5336: Instructional Strategies in Science Education (3)
- SCE 5935: Assessment in Science Education (3)
- SCE 5895: Nature of Science and Scientific Inquiry (3)
- SCE 6395: Science Teacher Education (3)
- SCE 6761r: Research, recent developments, and current issues (3)
- SCE 5215: Conceptual learning of elementary school science
- EDE 6937: Doctoral Seminar in Elementary Education (3)