

Florida State University
School of Teacher Education
Doctorate of Philosophy (Ph.D.) in Curriculum & Instruction
Major in Mathematics Education

Degree Requirements

There are general requirements for the PhD in Curriculum and Instruction and specific coursework available to satisfy those requirements. Several courses are common across majors. There are also courses that are designed especially for the major in Mathematics Education.

Category	Description
Interdepartmental Core (9 credits) <ul style="list-style-type: none"> ● Curriculum Theory (3) ● Learning Theory (3) ● Policy Studies (3) 	Interdepartmental Core (9 credits) <ul style="list-style-type: none"> ● EDG 6221 Curriculum Theory ● (Several options are available. Consult with advisor.) ● EDG 6068 Current Trends and Issues in Teaching and Teacher Education
Seminars (minimum of 2 credits)	Seminars (2 credits) EDG 6008 (1 credit) Academic and Professional Identity EDG 6009 (1 credit) Successful Transitions: Grad School to Academic / Alt-Academic Professions Other seminars are available on topics identified by faculty based on student interest.
Research Methods Core (minimum of 15 credits)	Research Methods Core Students typically take a mix of quantitative and qualitative research methods courses. Options include the following: <ul style="list-style-type: none"> ● EDF 5481 Methods of Educational Research (3) ● EDF 5400 Basic Descriptive & Inferential Statistics Applications (4) ● EDF 5401 General Linear Models (4) ● EDF 5402 ANOVA (3) ● EDF 5406 Multivariate Analysis Applications (3) ● EDF 5409 Causal Modeling (3) ● EDF 7418 Multilevel Modeling (3) ● EDF 7489 Meta-Analysis (3)) ● EDF 6475 Qualitative Methods in Educational Research (3) ● EDF 6476 Advanced Qualitative Research Seminar (3) ● EDF 6479 Qualitative Data Analysis (3) ● EDF 6499 Discourse and Conversation Analysis (3)

<p>Major Core (minimum of 15 credits)</p>	<p>Required courses in the major:</p> <ul style="list-style-type: none"> ● MAE 6148 Curriculum in Mathematics Education (3) ● MAE 6939 Seminar in Mathematics Teacher Education (3) ● MAE 6938 Doctoral Seminar in Mathematics Education: Teaching and Learning (3) ● MAE 6797 Advanced Seminar on Research in Mathematics Education (3) <p>Additional courses available in the major:</p> <ul style="list-style-type: none"> ● MAE 5658 Using Tech. in the Teaching of Mathematics ● MAE 5691 Mathematics Teaching and Learning ● MAE 5865 Using History in the Teaching of Mathematics (currently only offered online)
<p>Additional Requirements</p>	<ul style="list-style-type: none"> ● Supervised Research (2 formal documented experiences) ● Supervised Teaching (1 formal documented experience) ● Other courses as identified by supervisory committee ● Doctoral students are also required to complete a diagnostic exam in the semester in which they complete their 18th hour of coursework (second semester for full-time students, later for part-time students).
<p>Opportunities for Specialization (consult with advisor/committee)</p>	<p>Depending on considerations including availability, additional courses might be selected from other disciplines such as Mathematics, Philosophy, Psychology, etc.</p>
<p>Dissertation Research (minimum of 24 credits)</p>	<p>Dissertation Research Includes satisfactory completion of a preliminary written exam (with oral defense; MAE 8964), dissertation prospectus, and an oral defense of the dissertation (MAE 8985).</p> <p>MAE 6980 Dissertation (min 24 credits)</p>