EDUCATION - DOCTOR OF PHILOSOPHY (PHD)

Overview
The School of Education offers a single major in Education. The major has seven program areas of emphasis, from which a student chooses:

- Educational Foundations, Policy and Practice
- Equity, Bilingualism and Biliteracy
- Learning Sciences and Human Development
- Literacy Studies
- Research and Evaluation Methodology
- STEM Education
- Teacher Learning, Research and Practice

Requirements

Required Courses and Credits
Students must successfully complete 56 credit hours of approved coursework, with 23 credit hours of core courses (see below) taken as a doctoral cohort during the first two years of study. Students must maintain at least a B (3.0) average with no grade lower than a B- while enrolled.

Students must complete 30 hours of dissertation credit. Students must be registered for a minimum of 5 dissertation hours per semester after successful completion of their comprehensive exam.

All PhD students are required to take the following seven courses in their first and second years:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 8210</td>
<td>Perspectives on Classroom Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8220</td>
<td>Introduction to Educational Research and Policy</td>
<td>3</td>
</tr>
</tbody>
</table>
| Research Methods Sequence 1
| EDUC 8230  | Quantitative Methods I                                                | 6            |
| & EDUC 8240 | and Quantitative Methods II                                           |              |
| EDUC 8250  | Qualitative Methods I                                                 | 6            |
| & EDUC 8260 | and Qualitative Methods II                                            |              |

Advanced Seminar in Democracy, Diversity & Social Justice 3
Choose from the following courses in consultation with faculty advisor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5015</td>
<td>International / Comparative Education</td>
</tr>
<tr>
<td>EDUC 5301</td>
<td>Queer(ing) Topics in Education</td>
</tr>
<tr>
<td>EDUC 6210</td>
<td>Education Policy and the Law</td>
</tr>
<tr>
<td>EDUC 6220</td>
<td>Gender Issues in Education</td>
</tr>
<tr>
<td>EDUC 6240</td>
<td>African American Education in the United States</td>
</tr>
<tr>
<td>EDUC 6245</td>
<td>Latinx Education Across the Americas</td>
</tr>
<tr>
<td>EDUC 8014</td>
<td>Advanced Seminar in Democracy, Diversity and Social Justice</td>
</tr>
<tr>
<td>EDUC 8125</td>
<td>Seminar: Radical Education Theories</td>
</tr>
<tr>
<td>EDUC 8615</td>
<td>Language Issues in Education Research</td>
</tr>
</tbody>
</table>

EDUC 820 Language and Power
EDUC 8165 Advanced Topics in Mathematics Education 2
EDUC 8175 Advanced Topics in Science Education 2
EDUC 8358 Critical Introduction to Learning Theory and Practice, Part 1 2

Total Credit Hours 21
1 Students may take one or both sequences in the first year, or take one sequence each year in first or second years.
2 In some instances, particular sessions of the “special topics” courses have been accepted for this requirement; check with the Associate Dean of Students or the School of Education handbook for the most recent list of approved courses.

Area of Emphasis Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6929</td>
<td>Readings in Educational Foundations Policy and Practice</td>
</tr>
</tbody>
</table>

Educational Foundations, Policy, and Practice

Specialty Seminar 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 620</td>
<td>Language and Power</td>
</tr>
<tr>
<td>EDUC 8165</td>
<td>Advanced Topics in Mathematics Education 2</td>
</tr>
<tr>
<td>EDUC 8175</td>
<td>Advanced Topics in Science Education 2</td>
</tr>
<tr>
<td>EDUC 8358</td>
<td>Critical Introduction to Learning Theory and Practice, Part 1 2</td>
</tr>
</tbody>
</table>

Total Credit Hours 21
1 Students may take one or both sequences in the first year, or take one sequence each year in first or second years.
2 In some instances, particular sessions of the “special topics” courses have been accepted for this requirement; check with the Associate Dean of Students or the School of Education handbook for the most recent list of approved courses.

Area of Emphasis Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 5015</td>
<td>International / Comparative Education</td>
</tr>
<tr>
<td>EDUC 5075</td>
<td>Sociology in Education</td>
</tr>
<tr>
<td>EDUC 5085</td>
<td>History of American Education</td>
</tr>
<tr>
<td>EDUC 6210</td>
<td>Education Policy and the Law</td>
</tr>
<tr>
<td>EDUC 6220</td>
<td>Gender Issues in Education</td>
</tr>
<tr>
<td>EDUC 6230</td>
<td>Ethics in Education</td>
</tr>
<tr>
<td>EDUC 6240</td>
<td>African American Education in the United States</td>
</tr>
<tr>
<td>EDUC 6250</td>
<td>Higher Education in the United States</td>
</tr>
<tr>
<td>EDUC 6260</td>
<td>Transnational Migration, Education, and Citizenship</td>
</tr>
<tr>
<td>EDUC 6325</td>
<td>Anthropology of Education</td>
</tr>
<tr>
<td>EDUC 7055</td>
<td>Philosophy of Education</td>
</tr>
<tr>
<td>EDUC 7446</td>
<td>Seminar: Policy Issues in Education</td>
</tr>
<tr>
<td>EDUC 8025</td>
<td>Seminar: Curriculum Theories</td>
</tr>
<tr>
<td>EDUC 8045</td>
<td>Philosophical Issues in Educational Research</td>
</tr>
<tr>
<td>EDUC 8055</td>
<td>Theoretical Issues in Education Policy</td>
</tr>
</tbody>
</table>

Minimum nine hours of advanced research methods courses; these courses may be in advanced qualitative or advanced quantitative methods and may be taken in the School of Education or in other departments of the University. Students concentrating in History of Education or Philosophy of Education may choose to fulfill this requirement with courses in historiography or philosophical inquiry, respectively. These must be chosen in consultation with the faculty advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 6410</td>
<td>Discourse Analysis</td>
</tr>
<tr>
<td>EDUC 7386</td>
<td>Educational Evaluation</td>
</tr>
<tr>
<td>EDUC 7396</td>
<td>Categorical Data Analysis</td>
</tr>
<tr>
<td>EDUC 7456</td>
<td>Multilevel Modeling</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>EDUC 7456</td>
<td>Multilevel Modeling</td>
</tr>
<tr>
<td>EDUC 8710</td>
<td>Measurement in Survey Research</td>
</tr>
<tr>
<td>EDUC 8720</td>
<td>Advanced Topics in Measurement</td>
</tr>
<tr>
<td>EDUC 8730</td>
<td>Advanced Qualitative Data Analysis</td>
</tr>
<tr>
<td>SOCY 7026</td>
<td>Feminist Research Methods</td>
</tr>
<tr>
<td>SOCY 7121</td>
<td>Qualitative Analysis</td>
</tr>
</tbody>
</table>

**Electives**

**Total Credits**

**35**

**Equity, Bilingualism, and Biliteracy**

**Specialty Seminar**

EDUC 6927 Readings in Equity, Bilingualism and Biliteracy

**Studies in Equity, Bilingualism, and Biliteracy**

EDUC 5615 Second Language Acquisition
EDUC 5635 Education and Sociolinguistics
EDUC 8615 Language Issues in Education Research
EDUC 8620 Language and Power
EDUC 8630 Bilingual and Biliterate Development in Children and Adolescents
EDUC 8640 Rethinking Disability

**Research and Statistics**

Minimum nine hours in advanced methodology, preferably aligned with the methods to be used during dissertation research.

Choose from:

EDUC 6504 Issues and Methods in Cognitive Science
EDUC 7336 Methods of Survey Research and Assessments
EDUC 7346 Ethnographic Methods in Educational Research
EDUC 7386 Educational Evaluation
EDUC 7396 Categorical Data Analysis
EDUC 7456 Multilevel Modeling
EDUC 8710 Measurement in Survey Research
EDUC 8720 Advanced Topics in Measurement
EDUC 8730 Advanced Qualitative Data Analysis
COMM 6410 Discourse Analysis

**Non-Education Courses**

Three to six credit hours must be taken outside of the School of Education. These courses must be selected in consultation with the faculty advisor and are typically at the 6000-level or higher.

**Electives**

**Total Credits**

**35**

**Learning Sciences and Human Development**

**Specialty Seminar**

EDUC 6928 Readings in Learning Sciences and Human Development

**Advanced Topics in Learning Sciences and Human Development**

Twelve hours selected with the faculty advisor’s approval from 8000-level.

**Electives**

**Total Credits**

**35**

**Research and Evaluation Methodology**

**Specialty Seminar**

EDUC 6926 Readings in Research and Evaluation Methodology

**Research and Evaluation Methodology Required Courses**

EDUC 7326 Quasi-Experimental Design in Causal Inference in Social Sciences
EDUC 7386 Educational Evaluation
EDUC 7396 Categorical Data Analysis
EDUC 7456 Multilevel Modeling

Minimum six elective hours must be outside Learning Sciences and Human Development, and must be courses other than those used to satisfy the core requirements and the advance topics requirements. These electives may be used to satisfy requirements toward the Institute for Cognitive Sciences certificate.

**Total Credits**

**35**

**Literacy Studies**

**Specialty Seminar**

EDUC 6925 Readings in Curriculum and Instruction

**Literacy Doctoral Seminars**

Minimum twelve semester hours of the advanced doctoral courses in literacy studies are required to be taken within the first four years. Depending on the content focus of the course offerings, a course number may be taken more than once with approval of literacy studies faculty. These seminars will be offered minimum of once per academic year. Please plan for these courses in consultation with the faculty advisor.

**Advanced Methods**

Minimum six semester hours of coursework in qualitative, quantitative, and/or mixed methodologies. Courses must be graduate level and may be taken within or outside of the School of Education. For those also pursuing the Teacher Learning, Research and Practice area of emphasis, one advanced methods requirements can be met through either EDUC 8135 or EDUC 7115. Note that one of these two courses could be fulfilled in conjunction with the Cognate Requirement.

**Writing Course**

EDUC 8950 Proposal and Dissertation Writing
or EDUC 8940 Scholarly Writing for Graduate Students

**Cognate Requirement**

Minimum six semester hours taken outside of the School of Education. Choose a minimum of two courses in an area of specialization to be taken outside of the School of Education. The courses related to a student’s specialty area may be defined by discipline (e.g., linguistics, anthropology, English literature) or by focus (e.g., critical theories of race; Latinx studies; queer studies; poetry; digital humanities). Note that one of these two courses could be fulfilled in conjunction with the Advanced Methods Requirement.

**Electives**

Minimum nine semester hours within the School of Education to be chosen in consultation with advisor and in context of interests and developing expertise.

**Total Credits**

**35**

**Research and Evaluation Methodology**

**Specialty Seminar**

EDUC 6926 Readings in Research and Evaluation Methodology

**Research and Evaluation Methodology Required Courses**

EDUC 7326 Quasi-Experimental Design in Causal Inference in Social Sciences
EDUC 7386 Educational Evaluation
EDUC 7396 Categorical Data Analysis
EDUC 7456 Multilevel Modeling

Minimum six elective hours must be outside Learning Sciences and Human Development, and must be courses other than those used to satisfy the core requirements and the advance topics requirements. These electives may be used to satisfy requirements toward the Institute for Cognitive Sciences certificate.

**Total Credits**

**35**

**Literacy Studies**

**Specialty Seminar**

EDUC 6925 Readings in Curriculum and Instruction

**Literacy Doctoral Seminars**

Minimum twelve semester hours of the advanced doctoral courses in literacy studies are required to be taken within the first four years. Depending on the content focus of the course offerings, a course number may be taken more than once with approval of literacy studies faculty. These seminars will be offered minimum of once per academic year. Please plan for these courses in consultation with the faculty advisor.

**Advanced Methods**

Minimum six semester hours of coursework in qualitative, quantitative, and/or mixed methodologies. Courses must be graduate level and may be taken within or outside of the School of Education. For those also pursuing the Teacher Learning, Research and Practice area of emphasis, one advanced methods requirements can be met through either EDUC 8135 or EDUC 7115. Note that one of these two courses could be fulfilled in conjunction with the Cognate Requirement.

**Writing Course**

EDUC 8950 Proposal and Dissertation Writing
or EDUC 8940 Scholarly Writing for Graduate Students

**Cognate Requirement**

Minimum six semester hours taken outside of the School of Education. Choose a minimum of two courses in an area of specialization to be taken outside of the School of Education. The courses related to a student’s specialty area may be defined by discipline (e.g., linguistics, anthropology, English literature) or by focus (e.g., critical theories of race; Latinx studies; queer studies; poetry; digital humanities). Note that one of these two courses could be fulfilled in conjunction with the Advanced Methods Requirement.

**Electives**

Minimum nine semester hours within the School of Education to be chosen in consultation with advisor and in context of interests and developing expertise.

**Total Credits**

**35**

**Learning Sciences and Human Development**

**Specialty Seminar**

EDUC 6928 Readings in Learning Sciences and Human Development

**Advanced Topics in Learning Sciences and Human Development**

Twelve hours selected with the faculty advisor’s approval from 8000-level.

**Electives**

**Total Credits**

**35**

**Research and Evaluation Methodology**

**Specialty Seminar**

EDUC 6926 Readings in Research and Evaluation Methodology

**Research and Evaluation Methodology Required Courses**

EDUC 7326 Quasi-Experimental Design in Causal Inference in Social Sciences
EDUC 7386 Educational Evaluation
EDUC 7396 Categorical Data Analysis
EDUC 7456 Multilevel Modeling

Minimum six elective hours must be outside Learning Sciences and Human Development, and must be courses other than those used to satisfy the core requirements and the advance topics requirements. These electives may be used to satisfy requirements toward the Institute for Cognitive Sciences certificate.

**Total Credits**

**35**

**Literacy Studies**

**Specialty Seminar**

EDUC 6925 Readings in Curriculum and Instruction

**Literacy Doctoral Seminars**

Minimum twelve semester hours of the advanced doctoral courses in literacy studies are required to be taken within the first four years. Depending on the content focus of the course offerings, a course number may be taken more than once with approval of literacy studies faculty. These seminars will be offered minimum of once per academic year. Please plan for these courses in consultation with the faculty advisor.

**Advanced Methods**

Minimum six semester hours of coursework in qualitative, quantitative, and/or mixed methodologies. Courses must be graduate level and may be taken within or outside of the School of Education. For those also pursuing the Teacher Learning, Research and Practice area of emphasis, one advanced methods requirements can be met through either EDUC 8135 or EDUC 7115. Note that one of these two courses could be fulfilled in conjunction with the Cognate Requirement.

**Writing Course**

EDUC 8950 Proposal and Dissertation Writing
or EDUC 8940 Scholarly Writing for Graduate Students

**Cognate Requirement**

Minimum six semester hours taken outside of the School of Education. Choose a minimum of two courses in an area of specialization to be taken outside of the School of Education. The courses related to a student’s specialty area may be defined by discipline (e.g., linguistics, anthropology, English literature) or by focus (e.g., critical theories of race; Latinx studies; queer studies; poetry; digital humanities). Note that one of these two courses could be fulfilled in conjunction with the Advanced Methods Requirement.

**Electives**

Minimum nine semester hours within the School of Education to be chosen in consultation with advisor and in context of interests and developing expertise.

**Total Credits**

**35**
Advanced Methods

Minimum 15 semester hours within the School of Education to be chosen in consultation with advisor and in context of interests and developing expertise.

Total Credits 35

STEM Education

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6925</td>
<td>Readings in Curriculum and Instruction</td>
</tr>
</tbody>
</table>

STEM Doctoral Seminars

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 8177</td>
<td>Advanced Seminar in Curriculum and Policy in Mathematics &amp; Science Education</td>
</tr>
<tr>
<td>EDUC 8178</td>
<td>Advanced Seminar on Learning in Math &amp; Science Education</td>
</tr>
<tr>
<td>EDUC 8179</td>
<td>Advanced Seminar in Mathematics and Science Teaching &amp; Teacher Education</td>
</tr>
</tbody>
</table>

Advanced Methods

Minimum six hours in either qualitative or quantitative methods. Options within and outside of the School of Education may be chosen in consultation with advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 8710</td>
<td>Measurement in Survey Research</td>
</tr>
<tr>
<td>EDUC 8720</td>
<td>Advanced Topics in Measurement</td>
</tr>
<tr>
<td>EDUC 8730</td>
<td>Advanced Qualitative Data Analysis</td>
</tr>
<tr>
<td>COMM 6410</td>
<td>Discourse Analysis</td>
</tr>
</tbody>
</table>

Writing Seminar

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 8950</td>
<td>Proposal and Dissertation Writing</td>
</tr>
</tbody>
</table>

Electives 15

A minimum six credits within the School of Education. Additional electives may be completed outside the School of Education in consultation with advisor.

Total Credits 35

Teacher Learning, Research and Practice

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6925</td>
<td>Readings in Curriculum and Instruction</td>
</tr>
</tbody>
</table>

TLRP Seminar Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 7115</td>
<td>Critical Inquiry into Becoming a Teacher Educator</td>
</tr>
<tr>
<td>EDUC 8115</td>
<td>History and Policy Issues in Teaching and Teacher Education</td>
</tr>
<tr>
<td>EDUC 8135</td>
<td>Theories and Methodologies for Examining Teacher Learning</td>
</tr>
<tr>
<td>EDUC 8145</td>
<td>Designing for Teacher Learning and Teacher Education</td>
</tr>
</tbody>
</table>

Advanced Methods

In addition to EDUC 7115 and EDUC 8135, three hours of advanced methods (qualitative or quantitative) are required. The three remaining credit hours are met through a course selected from within or outside the School of Education in consultation with the faculty advisor. Although there are several courses that might fulfill this requirement, examples might include but are not limited to those noted below.

Course options (examples):

- ANTH 7300  Seminar: Research Methods in Cultural Anthropology
- COMM 6410  Discourse Analysis
- EDUC 8710  Measurement in Survey Research
- EDUC 8730  Advanced Qualitative Data Analysis
- LING 6310  Sociolinguistic Analysis
- LING 7800  Open Topics in Linguistics
- SOCY 6121  Qualitative Methods
- SOCY 7026  Feminist Research Methods
- SOCY 7171  Special Topics
- WGST 6190  Feminist Methodology

Writing Seminar

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 8950</td>
<td>Proposal and Dissertation Writing</td>
</tr>
<tr>
<td>or EDUC 8940  Scholarly Writing for Graduate Students</td>
<td></td>
</tr>
</tbody>
</table>

Cognate Requirement

Students design a pathway that best aligns with their goals. Students might, for example, select a complementary program area of study within the CU Boulder School of Education and complete the twelve (12) hours of Graduate Seminar coursework housed in that program. Or, students might select a cognate area that allows them to explore a specialty area defined by discipline (e.g., linguistics, anthropology, English literature) or by focus (e.g., critical approaches to race, class and gender; urban studies). For either of these pathways, the remaining hours might serve as Elective credits chosen in consultation with the advisor and in the context of students’ interests and developing expertise. Regardless of how the student chooses to design this element of the program, we strongly recommend that at least one course be taken outside of the School of Education. Note, too, that these credits may potentially overlap with Advanced Methods.

Electives 15

Total Credits 35

1  Each program area of emphasis requires a one-credit, specialty seminar course to be taken both fall and spring semesters of the first year. Additionally, first year PhD students participate in a “Professional Seminar” that meets five times each semester. This course is required to fulfill the credits earned in the fall and spring “Readings” (specialty seminar) course.

2  (Studies in Equity, Bilingualism, and Biliteracy) These courses are required if not already taken prior to entering PhD program.

3  For students also pursuing the Teacher Learning, Research and Practice area of emphasis, all elective requirements will be met through the Teacher Learning, Research and Practice required seminars.

Dissertation Credit

All doctoral students must take a minimum of 30 dissertation hours (EDUC 8994 Doctoral Dissertation).

Students are allowed to take up to 10 hours prior to passing their comprehensive exam. Once students pass their comprehensive exam, they must be registered for a minimum of 5 dissertation hours every semester. Students may be registered for 3 hours if they are "off-campus" status, meaning they are not on appointment and are not taking any coursework hours.
Students must be registered for a minimum of 5 dissertation hours during the semester they defend.

Language Requirement
The faculty in the School of Education (SOE) recognize and value the wide range of linguistic backgrounds and experiences with which students come to our PhD program. Given our shared commitment of partnering with diverse communities -- including those where a variety of different [spoken and/or signed] languages are used -- we view the doctoral program's language requirement as a way to engage with and demonstrate this commitment to linguistically diverse, multilingual communities. We also view this requirement as a means to understand the role of language in research design and practice, and to enact the experience of communicating about our research in languages other than English with members of linguistically diverse, multilingual communities.

All doctoral students in the SOE are required to complete the Language Requirement by May of their third year in the program.

Please see the School of Education Student Handbook (https://www.colorado.edu/education/student-handbook/) for more information on this requirement.

Publishable Paper Requirement
In addition to coursework requirements, doctoral students should be immersed in ongoing research with faculty as early in their program as possible. All doctoral students in the SOE are required to complete, at a minimum, one “publishable paper” by May of their third year in the program.

Please see the School of Education Student Handbook (https://www.colorado.edu/education/student-handbook/) for more information on this requirement.

Comprehensive Examination
Students must schedule comprehensive examinations or “comps” with the SOE by completing an application for candidacy form and emailing soe.gradvise@colorado.edu with the names of their committee members and the date of their exam at the beginning of the semester they plan to take their comprehensive exams. Students should also request a room booking at this time. For remote examinations, the chair must set up the Zoom room for the event. The examining committee is comprised of three faculty members. The chair of the examining committee must hold a current, regular membership on the graduate faculty and is typically the student's advisor or someone appointed in their absence in the case of sabbatical. The other two members must hold regular or special memberships on the graduate faculty. The student must be registered during the semester that the comprehensive examination is taken.

Please see the School of Education Student Handbook (https://www.colorado.edu/education/student-handbook/) for more information on this requirement.

Proposal Committee
Once students have successfully passed their comprehensive exam, they should consult their faculty advisor to propose their dissertation proposal committee.

Consistent with the Graduate's School's requirements for the final PhD examination, the committee must include at least five faculty: at least three faculty must be Boulder campus resident faculty and at least one of these three must be from outside the student's department. The outside, or "external" member may be from another department at CU Boulder or from another institution. The Chair must have regular membership on the graduate faculty. The other members must have regular or special memberships on the graduate faculty. Note that if a student is pursuing a joint or dual-degree, at least two of the faculty must hold graduate appointments in the student’s SOE program area. Special membership, which includes faculty from other institutions, requires the approval of the Associate Dean of Students. The entire list of prospective committee members must be submitted to the Graduate Program Coordinator at soe.gradvise@colorado.edu and approved by the Associate Dean of Students at the start of the semester during which the proposal will be defended, and then re-approved at the start of the semester during which the dissertation will be defended.

Committee members must receive approval from the School of Education prior to the final examination/defense. Please check the deadlines sheet for dates.

Please see the School of Education Student Handbook (https://www.colorado.edu/education/student-handbook/) for more information.

Dissertation Committee and Final Defense
The dissertation committee must include at least five faculty: at least three faculty must be Boulder campus resident faculty and at least one of these three must be from outside the student's department. The outside, or "external" member may be from another department at CU Boulder or from another institution. The Chair must have regular membership on the graduate faculty. The other members must have regular or special memberships on the graduate faculty. Note that if a student is pursuing a joint or dual-degree, at least two of the faculty must hold graduate appointments in the student’s SOE program area. Special membership, which includes faculty from other institutions, requires the approval of the Associate Dean of Students. The entire list of prospective committee members must be submitted to the Graduate Program Coordinator at soe.gradvise@colorado.edu and (re)approved by the Associate Dean of Students at the start of the semester during which the dissertation will be defended.

Please check the deadlines sheet for dates, and the School of Education Student Handbook for more information.

After successful completion of dissertation defense, the completed dissertation must be uploaded to the Graduate School according to Graduate School procedures and deadlines. Please see the Graduate School website for deadlines details.

Transfer Credit
Transfer credit is defined as any credit earned at another accredited institution, credits earned on another campus of the CU system, or credits earned as a nondegree student within the CU system.

The maximum amount of work that may be transferred from another accredited institution to CU Boulder is 21 credit hours, and is accepted only after approval of the faculty advisor and the Graduate Programs Coordinator, in consultation with the Associate Dean of Students. All courses accepted for transfer must be graduate-level courses. A course in which a grade of B- or lower was received will not be accepted for transfer.

Transfer coursework must have been completed in the five years prior to acceptance to the program. Credit may not be transferred until the student has completed 6 credits of graduate-level coursework as a degree-seeking student on the CU Boulder campus with a 3.0 GPA.
Students who have applicable credits to transfer to their PhD degree program must complete the transfer of credit paperwork.

**Time Limit**

The doctoral degree must be completed within six years, including defending the dissertation and submitting it to the Graduate School. A one-year extension may be granted if formally requested in writing, recommended by the student’s faculty advisor, and approved by the Associate Dean of Students and the Dean of the Graduate School. The extension request must show valid reasons as to why an extension is needed. If an extension is granted, all degree requirements must be completed within the extended time period.

**Establishing State Residency**

PhD students who move to Colorado from another state need to petition for Colorado in-state tuition classification within one year so they are eligible for in-state tuition during second year of graduate study. Proof of residency includes a Colorado driver’s license and vehicle registration, voter registration, filing Colorado income taxes and proof of employment. Students should save a signed copy of their Graduate Student Assistantship offer letter to serve as proof of employment.

Detailed instructions on how to apply for Colorado residency (also called domicile) can be found on the registrar’s website: [http://www.colorado.edu/registrar/students/state-residency/](http://www.colorado.edu/registrar/students/state-residency/)

**Areas of Emphasis**

**Educational Foundations, Policy, and Practice**

The Educational Foundations, Policy, and Practice (EFPP) program area of emphasis focuses on policy analysis and the application of academic disciplines—anthropology, history, law, philosophy and sociology—to the analysis of education. Programs are devoted to the critical examination of the relations among education, society, culture and government, with special emphasis on issues of equity along lines of race, ethnicity, social class, gender, sexual diversity, (dis)ability, and intersections of these.

The EFPP program area of emphasis prepares students for university faculty positions and other careers requiring deep knowledge of research.

**Equity, Bilingualism, and Biliteracy**

The Equity, Bilingualism, and Biliteracy (EBB) program area of emphasis stresses analysis, evaluation and implementation of educational programs for students who represent diverse learning needs within the public school system. School culture, language policies and the social and political context of schooling are examined across emphases. Policies that affect the assessment, placement and services provided for exceptional children also are examined.

EBB is specifically geared to preparing researchers and leadership personnel in the field of bilingual multicultural education. Program graduates are typically employed in schools of education as faculty and/or researchers. Other graduates also serve in professional positions with state and federal education agencies, as well as local school districts.

**Learning Sciences and Human Development**

Faculty and students in the Learning Sciences & Human Development (LSHD) program area of emphasis study how people learn in the context of organizing for more equitable, sustainable social futures. Researchers consider how the practice of research can inform social change that can improve learning and teaching for K–12 students and their teachers, for undergraduates and the organization of higher education pathways, and in community contexts. Working in partnership with school and community partners is a key component of the approach taken to understanding educational problems and their possible solutions.

The LSHD program prepares graduate students to research and inform collective efforts to improve conditions of learning, particularly for young people from non-dominant communities and the adults (including teachers, community organizers and community members) who work with them. The program emphasizes:

- How a strong foundation in psychological perspectives on education and human development can inform efforts to improve conditions for learning in school and out of school contexts.
- The need to go beyond psychological perspectives to interpret learning and development in social, cultural and historical contexts.
- Social justice as a central concern in studying and informing efforts to improve conditions of learning.
- Humanistic approaches to research that draw on interpretive, phenomenological and social practice theories of human action.

Students work with faculty members who conduct research in a range of settings, including schools, preservice teacher education programs, after-school programs, museums, community organizations, workplaces and grassroots social movements.

**Literacy Studies**

Faculty and graduate students in the Literacy Studies program study and design literacies in print and multimodal modes and in varied contexts. Literacies are framed as central to envisioning and enacting expansive and justice-centered theories and practices for teaching, learning, imagination, and self-expression in K-12 schools, informal learning spaces, and communities. Grounded in critical, social and interpretive conceptions of literacy, our program highlights the interrelations among theory, research, practice, policy and the potential for equitable social change.

Through multiple methodologies, research in the program occurs in partnership with children, youth, families and teachers in ways that honor and attend to experiences and identities at the intersections of race, language, gender, sexuality, ability and economic opportunity. Doctoral students collaborate with faculty on a range of research projects, engage in community outreach, and work in teacher education programs emphasizing social justice and humanizing approaches to curriculum and instruction that center and address the interests and needs of all learners. The program prepares graduate students for careers in research and teaching in university settings, educational leadership in schools and community organizations, and research and development in the private or nonprofit sector.

Students will have the opportunity to:

- Develop an expansive understanding of literacy and its implications for children, youth, and their families and communities.
- Understand the theoretical perspectives informing literacy research currently and historically.
- Critically examine and apply research methodologies to questions of significance to them and to the field of literacy studies.
- Collaborate with faculty, peers, youth, communities and other educators to pursue research and pedagogical goals.
- Deepen their understanding of theories and practices that situate literacy as essential for dismantling systems of oppression and building toward anti-racist, anti-oppressive, and affirming futures.
for children and youth, teachers, teacher educators, schools and communities.

**Research and Evaluation Methodology**

The Research and Evaluation Methodology (REM) program is a place for intellectually curious and motivated students who want to learn about deep research methodology with an eye toward influencing education policy and practice. The most common methodological specializations are:

- Psychometrics and educational assessment
- Applied statistics

The program is a full-time commitment, and all admitted students are supported with five years of funding, including tuition remission and a stipend for living expenses. Students participate in graduate research assistant-ships each semester and can expect to work with faculty on research projects as part of CADRE (http://www.colorado.edu/cadre/cadre-projects-and-resources/), the Center for Assessment, Design, Research and Evaluation.

**STEM Education**

The STEM Education program offers students an opportunity to build their understanding and expertise in STEM (predominantly science and mathematics) topics, with a special focus on diversity and justice in STEM education. The program helps teachers develop their content knowledge, as well as greater understanding of how learning environments can be designed to foster students' understanding of and participation in mathematics and science. Our faculty work in deep partnership with STEM faculty in other departments at CU Boulder, as well as with teachers, schools, districts, and community members. The PhD prepares students for careers in research and teaching in university settings, educational and public leadership and services to schools, or research and development in the private or nonprofit sectors.

The STEM Education program is centered on and takes an interdisciplinary stance to:

- Learning beyond cognitive change towards participation in sociopolitical learning environments that involve issues of identity and power.
- Collaboration with teachers and public schools as partners in broadening and re-envisioning STEM education to include more humanizing experiences and outcomes.
- Recognition that current values and traditions of STEM disciplines need to be de-settled to expand what counts as knowing and to be a knower.
- Exploration of the generation of knowledge among learning communities of all types and the negotiation of shared visions and integrity among their members.
- Building and studying programs that engage and sustain learners and their communities through engagement in meaningful and relevant STEM questions.
- Youth empowerment and agency by drawing on scientific knowledge and practices to explore meaningful questions in their communities.

**Teacher Learning, Research and Practice**

The Teacher Learning, Research & Practice (TLRP) program offers a rigorous pathway for those interested in becoming teacher educators who conduct research and support the practice of teaching and teacher education. The TLRP program takes seriously this hybrid role of teacher educator as both researcher and practitioner, as well as the historical legacy of inequalities perpetuated by teacher education. This program prepares graduate students for careers as researchers and teachers in university settings with a particular emphasis on equity and justice, as educational leaders in schools and community organizations, and as researchers and developers in private and nonprofit sectors.

The TLRP program is grounded in a commitment to the practice, study, and transformation of teacher education in ways that forward and honor humanizing thinking and action. Doctoral students enjoy opportunities to work in and with the school's multiple teacher education programs and to collaborate with faculty, doctoral students, and other stakeholders (e.g., school partners; community organizations) in the critical design and study of these programs. Conducting research with members of this community provides additional opportunities to deepen understandings from coursework and to pose and pursue questions using innovative research methodologies and methods.