EDUCATION - CURRICULUM AND INSTRUCTION - DOCTOR OF PHILOSOPHY (PHD)

The curriculum and instruction (C&I) PhD program is a research-oriented degree program that combines rigorous preparation for teaching and research in specific content areas, with particular attention devoted to curriculum and instruction, cognitive and social processes and research methodology.

It is an ideal degree for those interested in the processes of instruction and learning within one of the previously mentioned content areas, and/or in the education and professional development of teachers.

Specialty areas include:
- literacy studies
- mathematics education
- science education
- research on teaching and teacher education (ROTATE)

For more information on C&I specialty areas, visit the School of Education's Graduate Programs webpage.

This degree is intended for those interested in preparing for careers in research and teaching in university settings, educational leadership and services to schools, or research and development in the private or nonprofit sector.

Requirements

General Requirements

Student must successfully complete 56 credit hours of approved course work, 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.

Required Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 8230</td>
<td>Quantitative Methods I</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8250</td>
<td>Qualitative Methods I</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8210</td>
<td>Perspectives on Classroom Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8240</td>
<td>Quantitative Methods II</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8260</td>
<td>Qualitative Methods II</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8220</td>
<td>Introduction to Educational Research and Policy</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6925</td>
<td>Readings in Curriculum and Instruction (First Year: Fall semester)</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 6925</td>
<td>Readings in Curriculum and Instruction (First Year: Spring semester)</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Seminar in Democracy, Diversity &amp; Social Justice (select from a faculty-approved list of courses)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours 23

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. Students who have transfer credits must complete the transfer of credit paperwork.

The maximum amount of work that may be transferred from another accredited institution to CU Boulder is 12 credit hours, and is accepted only after approval of the faculty advisor and associate dean for graduate studies. 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 course work 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 course work as a degree-seeking student on the CU Boulder campus with a 3.0 GPA.

Program Tracks

For more information about each track, see the program’s Degree Requirements webpage.

Research on Teaching & Teacher Education (ROTATE) Track

In addition to the required core courses, students must complete the following track-specific course requirements.

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<tr>
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<tr>
<td>EDUC 8145</td>
<td>Seminar: Research on Teacher Education and Learning to Teach</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8025</td>
<td>Seminar: Curriculum Theories</td>
<td>3</td>
</tr>
</tbody>
</table>
| Advanced Methods

Choose at least 6 credit hours of advanced methods courses (qualitative or quantitative) from within or outside the School of Education in consultation with your advisor. Eligible courses include:

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<thead>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 6410</td>
<td>Discourse Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8730</td>
<td>Advanced Qualitative Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 8710</td>
<td>Measurement in Survey Research</td>
<td>3</td>
</tr>
<tr>
<td>LING 7800</td>
<td>Open Topics in Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>LING 6310</td>
<td>Sociolinguistic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 6121</td>
<td>Qualitative Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 7171</td>
<td>Special Topics (Writing Qualitative Research)</td>
<td>3</td>
</tr>
<tr>
<td>SOCY 7026</td>
<td>Feminist Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 24

Literacy Studies Track

In addition to the required core courses, students must complete the following track-specific course requirements.

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<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EDUC 6925</td>
<td>Seminar: Curriculum Theories</td>
<td>3</td>
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</table>

Advanced Methods

Literacy Doctoral Seminar

Students must complete a literacy doctoral seminar every spring semester in the first four years of study.

Advanced Methods
Choose at least 6 credit hours of advanced methods courses (qualitative or quantitative) from within or outside the School of Education in consultation with your advisor. Eligible courses include:

- COMM 6410 Discourse Analysis
- EDUC 8730 Advanced Qualitative Data Analysis
- EDUC 8710 Measurement in Survey Research
- LING 7800 Open Topics in Linguistics
- LING 6310 Sociolinguistic Analysis
- SOCY 6121 Qualitative Methods
- SOCY 7171 Special Topics (Writing Qualitative Research)
- SOCY 7026 Feminist Research Methods

**Writing Course**

EDUC 8950 Prospectus and Dissertation Writing 3

**Cognate Requirement**

Choose a minimum of two courses (6 credits) 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 approaches to race, class and gender, urban studies). These credits may potentially overlap with Advanced Methods.

- ANTH 7010 Seminar: Contemporary Theory in Cultural Anthropology
- ANTH 5785 Advanced Seminar in Cultural Anthropology
- COMM 6360 Social and Cultural Theory
- COMM 6420 Interaction Analysis
- COMM 6780 Roles, Relationships, and Identities in Interaction
- ENGL 5319 Studies in Literary Movements
- ENGL 7489 Advanced Special Topics
- ENGL 7179 Advanced Multicultural/Postcolonial Studies
- ENGL 5019 Survey of Contemporary Literary and Cultural Theory
- ETHN 6011 Race and Sexuality Studies
- ETHN 5306 The Chicana and Chicano and U.S. Social Systems
- ETHN 6001 Research Methods in Comparative Ethnic Studies
- LING 7800 Open Topics in Linguistics
- LING 6560 Language Acquisition
- LING 6450 Syntactic Analysis
- PHIL 5200 Contemporary Political Philosophy
- PHIL 5300 Philosophy of Mind
- PHIL 5290 Topics in Values and Social Policy
- PHIL 5490 Philosophy of Language
- PHIL 5210 Philosophy and Social Policy
- SOCY 7036 Feminist Theory
- SOCY 6041 Cultural Sociology
- SOCY 5201 Graduate Seminar in Sociological Theory
- SOCY 7131 Seminar in Social Psychology

**Electives**

Choose a minimum of 9 additional credit hours of courses from within the School of Education, to be chosen in consultation with your advisor and in the context of your interests and developing expertise.

- EDUC 8358 Seminar: Human Learning

**Math Education Track**

In addition to the required core courses, students must complete the following track-specific course requirements.

**Mathematics Doctoral Seminar**

EDUC 8165 Advanced Topics in Mathematics Education (three semesters, beginning in spring semester of the first year of study) 9

**Advanced Methods**

Two courses in either qualitative or quantitative methods. Options within and outside of the School of Education may be chosen in consultation with your advisor.

- EDUC 8710 Measurement in Survey Research
- EDUC 8720 Advanced Topics in Measurement
- EDUC 8730 Advanced Qualitative Data Analysis
- COMM 6410 Discourse Analysis

**Electives**

Choose a minimum of 18 additional credit hours of courses, at least 6 of which must be from within the School of Education, to be chosen in consultation with your advisor and in the context of your interests and developing expertise. Eligible courses include:

- EDUC 7386 Educational Evaluation
- EDUC 7446 Seminar: Policy Issues in Education
- EDUC 8025 Seminar: Curriculum Theories
- EDUC 8045 Philosophical Issues in Educational Research
- EDUC 8240 Advances in the Assessment of Student Learning
- EDUC 8804 Special Topics (Advanced Topics in Educational Psychology/Learning Sciences)
- EDUC 8XXX Advanced Topics and Research on Teaching and Teacher Education

**Science Education Track**

In addition to the required core courses, students must complete the following track-specific course requirements.

**Science Doctoral Seminar**

EDUC 8175 Advanced Topics in Science Education (three semesters, beginning in spring semester of the first year of study) 9

**Advanced Methods**

6
Two courses in either qualitative or quantitative methods. Options within and outside of the School of Education may be chosen in consultation with your advisor. Eligible courses include:

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**Total Credit Hours**

33

**Language Requirement**

Please see the Graduate Student Handbook (http://www.colorado.edu/education/node/522/attachment/newest) for information on this requirement.

**Dissertation Credit**

All doctoral students must take a minimum of 30 dissertation hours (EDUC 8994 PhD 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 course work hours.

Students must be registered for a minimum of 5 dissertation hours during the semester they defend.

**Scholarly Project**

All doctoral students are required to complete, at minimum, one scholarly project prior to taking the comprehensive exam. Presentations at professional meetings, published articles, reviews etc., are typical ways to satisfy the requirement.

**Comprehensive Exam**

The comprehensive exam should be taken after students have completed the majority of their course work (the third year of the program for students in the literacy studies track). The committee, comprised of three graduate faculty members, must be approved by the associate dean and graduate coordinator prior to the exam. The candidacy application should also be submitted at this time.

Committee members must receive approval from the School of Education prior to the exam. Please check the deadlines sheet for dates.

**Prospectus**

The dissertation prospectus committee should be comprised of four School of Education graduate faculty members and one graduate faculty member from outside the school but within CU Boulder (students in the literacy studies track may receive an exception with approval from the School of Education faculty committee members). These members must also be approved prior to the prospectus. A signature page should be turned in to the graduate studies coordinator upon completion.

Committee members must receive approval from the School of Education prior to the exam. Please check the deadlines sheet for dates.

**Final Defense**

The dissertation committee should be comprised of four School of Education graduate faculty members and one graduate faculty member from outside the school but within CU Boulder (students in the literacy studies track may receive an exception with approval from the School of Education faculty committee members). These members must also be approved prior to the defense. A signature page and final exam form should be turned in to the graduate studies coordinator upon completion. The complete and revised dissertation should be submitted to the Graduate School via the Proquest website according to Graduate School semester deadlines.

Committee members must receive approval from the School of Education prior to the exam. Please check the deadlines sheet for dates.

**Time Limit**

The doctoral degree must be completed within six years.