

EdD CURRICULUM AND INSTRUCTION WITH A STEM FOCUS

2017-2018

UHCL's Doctor of Education in Curriculum and Instruction with a focus on science, technology, engineering, and mathematics (STEM) is a program for educational leaders who wish to advance their careers. The doctoral degree will address the needs of professionals in the K-14 education sector who seek to improve their practice, positively impact their institutions, and advance their professional careers. The program will also address the needs of professionals employed in the informal education sector such as those who work at zoos, museums, educational outreach and community centers, as well as other educational-related STEM industries.

EdD Curriculum and Instruction with a STEM Focus (54 hours)

Curriculum and Instruction Core (9 hours)

EDCI 7034--Professional Writing & Communication

EDCI 7139--Professional Development Principles and Practices

EDCI 7035--Intercultural Communication

Research Core (15 hours)

EDCI 7031--Quantitative Research I

EDCI 7331--Advanced Qualitative Research

EDCI 7032--Quantitative Research II

EDCI 8530--Research Seminar

EDCI 7033--Qualitative Research

STEM Core (12 hours)

EDCI 7137--Advanced Models of Teaching in STEM Education

EDCI 7138--Curriculum Design: development, Implementation, Evaluation in STEM Education

EDCI 7430--Current Issues and Trends in STEM Education

EDCI 7431--Learning and Cognition in STEM Education

Specialization Area (12 hours)

With the assistance of your faculty advisor, choose 12 hours from a STEM Specialization Area. Approved STEM Specialization Areas are Science, Technology, Engineering, and Mathematics.

Dissertation (6 hours)

EDCI 8939--Dissertation

EDCI 8939--Dissertation

Program Notes:

- Once a student is admitted, any course in which a student makes a grade of "C-" or below cannot be counted toward the doctoral program. Doctoral students may count one course on their program with a grade of either "C+" or "C." All other grades must be "B-" or greater. An overall grade point average (GPA) of 3.000 must be maintained.
- The time frame for completion of the doctoral program is up to seven years from the start of the program. At the end of the seventh year, a doctoral candidate is allowed to petition the Associate Dean for a one-year extension, if the candidate's dissertation proposal has been approved. The candidate can petition the Associate Dean for a second and final one-year extension to complete the dissertation.
- EDCI 8969 may be taken by a candidate for 6 dissertation hours, if needed.

Admissions Requirements

The Admissions Subcommittee will review multiple sources of information about an applicant's qualifications in making a decision. No applicant will be admitted or declined admission on the basis of a single criterion. The decision will be a holistic one, based on the subcommittee members' assessment of each applicant's qualifications as presented in the application packet. One of the goals of the admission process is to create a cohort of doctoral students that is reflective of the diversity found in today's educational arenas.

The admission decision will be based on the following sources of information:

1. The applicant's UHCL - EdD Application. The application can be accessed at www.uhcl.edu/admissions.
2. The applicant's résumé.
3. The applicant's master's degree from an accredited institution.
4. The applicant's grades and grade point average on the graduate courses included in the master's program.
5. A combined score of 297 on the Verbal and Quantitative portions of the Graduate Record Examination. (GRE) and a minimum score of 4.0 on the Analytical Writing portion of the GRE. The GRE must have been taken within the last five years.
6. The applicant's work and leadership experience in STEM education.
7. The applicant's letter of intent, not to exceed 1000 words, should explain why he/she wishes to pursue doctoral-level work in STEM education. It should discuss the following topics: career goals; research interests as they relate to STEM education; how the program will help meet career goals and pursue research interests. The letter should also discuss scholarly and professional accomplishments and prior work experiences that relate to the applicant's interest in, and aptitude for, the doctorate program.
8. The statements made on the applicant's three Reference Forms. At least one reference must be from a supervisor or other administrator familiar with the applicant's work. If possible, at least one of the Reference Forms should be from a professor involved in the applicant's master's program. Reference Forms can be accessed at www.uhcl.edu/education.
9. If the applicant has no degree or certification from a university for which English is the language of instruction, then evidence of written and oral fluency in English is also considered. Contact the Office of Academic Advising in the College of Education (281-283-3600, education@uhcl.edu) for information about the documentation that must be submitted.

The information will be evaluated and weighed against the following general criteria:

- Potential for academic success in the program
- Variety and quality of characteristics and experiences brought to the cohort
- General diversity and balance within the cohort
- Leadership potential to be developed through the program focusing on STEM education
- Personal characteristics that suggest a potential for persistence in and commitment to the program
- Employer's support for the applicant
- Personal goals that are consistent with those of the program
- Academic preparation in STEM education

Given the demand for the EdD in Curriculum and Instruction with a STEM emphasis program and the limited number of students who can be admitted, applicants may be required to participate in either a phone or on-campus interview process. The Admissions Subcommittee also reserves the right to contact applicants for additional information.

Application Process

Application Materials

1. University application (www.uhcl.edu/admissions).
2. \$105 non-refundable application fee.
3. GRE scores not more than 5 years old.
4. Official transcripts from all institutions attended.
5. Other materials required to complete application portfolio:
 - a. **Three Professional References:** Please provide the Reference Form to your references. Your references should then return the completed form to you with his or her signature and the date written across the sealed envelope flap. Reference Forms can be accessed at www.uhcl.edu/soe/edd.
 - b. **Letter from Employer:** First, the letter must confirm your employer is supportive of you pursuing the EdD. Second, the letter must confirm that your employer is committed to supporting EdD field experiences/candidacy hours either within or outside the organization.
 - c. **Letter of Intent:** The Letter of Intent, not to exceed 1000 words, should explain why you wish to pursue doctoral-level work in STEM education by discussing your career goals and how the program in STEM education will help you meet them. You should include a brief discussion of prior experiences that relate to your interest in, and aptitude for, the graduate program; scholarly and professional accomplishments.
 - d. **Résumé/CV:** A current and comprehensive résumé/CV is required.