MIDDLE SCHOOL MATHEMATICS (6-8 LICENSURE)

School of Education \& Human Development

## Program Overview

The middle school mathematics program ensures that you will develop deep content knowledge important to become a successful mathematics teacher with courses in calculus, abstract math, statistics and more. You will also be prepared with the methods and foundations coursework that will make you a highly effective, innovative and compassionate middle mathematics teacher skilled in improving student performance and reaching the needs of today's diverse learners in a variety of school settings. You will have the skills to be a teacher leader. CU Denver graduates often go on to acquire positions in educational leadership as their careers progress.

## Academic Advising

The School of Education \& Human Development (SEHD) requires all students to meet with their Academic Advisor several times a year to develop and learn more about their own individualized plan of study.

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303-315-6300
SEHDcademicservices@ucdenver.edu
www.ucdenver.edu/education
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## General Graduation Requirements \& Policies

To receive a bachelor's degree from the University of Colorado Denver, students must satisfy all of the requirements below, in addition to completing a Major and fulfilling all of their School or College requirements.

1. A minimum of 120 credit hours is required to graduate from CU Denver with a bachelor's level degree.
2. A minimum 2.000 cumulative GPA is required for all University of Colorado coursework.
3. Satisfactory completion of the CU Denver Core Curriculum.

In addition to the general university graduation requirements listed above, all SEHD students are required to complete the following minimum general graduation requirements:

1. Students must earn a final grade of at least a C (2.0) in major courses and a B-(2.7) or above in designated major courses and Professional Year Residency courses within the major. These courses/requirements must be repeated if the student fails to earn the grade required.
2. Students must complete required classroom-based field experiences.
3. Students must complete all program assessments and professional milestones as outlined in the Student Handbook.
4. Students must complete all requirements associated with their SEHD major.

## Program Requirements \& Policies

Students are responsible for meeting with the academic advisor in the School of Education \& Human Development to confirm major requirements. Students completing the Education and Human Development BA degree in Middle School Mathematics (6-8 Licensure) are required to complete the following minimum program requirements:

1. Students must complete a minimum total of 126 semester hours for the EDHD Middle School Mathematics Education Track.
2. Application to the last year of the program, the Professional Year Residency is required. After successfully completing all other Core, major, and elective courses, all students must apply for admission into the Professional Year. Requirements for admission include a 3.0 GPA , positive letters of recommendation, successful evaluations of earlier clinical experiences, and a successful interview. (Students with a lower GPA may be considered under certain conditions. Please see SEHD website.)
3. A minimum of C - is required for all content courses.
4. A minimum GPA of 2.0, grade of C or better, is required for all major courses applying to EDHD - Middle School Mathematics Education requirements unless otherwise specified.
5. Students must complete and maintain a 3.0 minimum grade point average in Professional Year coursework to complete licensure requirements. Please see an advisor for more information on this requirement.
6. Transfer courses must be approved by faculty and/or advisor to apply to the major.

University of Colorado
Denver

| Courses | Credits | Notes |
| :---: | :---: | :---: |
| * Course prerequisites change regularly. Students are responsible for consulting advisors and the class schedule in the student portal for prerequisite information. * |  |  |
| CU Denver Core Curriculum Requirements | 34-37 | CU Denver Core Curriculum Requirements |
| EDHD - Middle School Mathematics Education Major Requirements | 39 |  |
| CLDE 2000 Foundations of Culturally \& Linguistically Diverse Edu | 3 | + Education Licensure Course |
| HDFR 1010 or HDFR 2110 or HDFR 3050 | 3 | Choose one course |
| SPED 4400 Universal Design for Learning (UDL) | 3 | *Prerequisite: 57+ credit hours completed |
| MTED 3040 Mathematics for Elementary Teachers | 3 | + Education Licensure Course |
| MTED 4621 A World of Different Numbers | 3 |  |
| CLDE 4020 Responsive Classroom Communities | 3 | *Prerequisites: EDFN 4010, 40+ credit hours completed; <br> + Education Licensure Course |
| EDFN 1000 or LCRT 2000 or LCRT 3815 | 3 | Choose one course |
| Clinical Field Experience Block: Community-Based | 3 | § Clinical Field Experience Block |
| EDHD 1930 Community Based Field Experience \& Seminar | 3 | § Clinical Field Experience Block |
| Clinical Field Experience Block: Learning \& Development | 6 | *Prerequisites: EDHD 1930; § Clinical Field Experience Block |
| EDHD 2930 Learning \& Development Field Experience \& Seminar | 3 | + Education Licensure Course; § Clinical Field Experience Block |
| EDFN 4010 Social Foundations \& Cultural Diversity in Urban Education | 3 | + Education Licensure Course; § Clinical Field Experience Block <br> *Prerequisite: $27+$ credits completed; +Ed Licensure Course |
| Clinical Field Experience Block: Diverse Learners | 9 | *Prerequisites: EDHD 2930; § Clinical Field Experience Block |
| EDHD 3930 Diverse Learners Field Experience \& Seminar | 3 | + Education Licensure Course; § Clinical Field Experience Block |
| CLDE 3830 Culturally and Linguistically Responsive Teaching through STEM | 3 | § Clinical Field Experience Block |
| SPED 4030 Understanding (dis)Ability in Contemporary Classrooms | 3 | + Education Licensure Course; § Clinical Field Experience Block |
| Middle School Mathematics Content Course Requirements | 16-17 |  |
| MATH 2830 Introductory Statistics | 3 | Course can fulfill Core Math; $\ddagger$ Content Course |
| MATH 1401 Calculus I | 4 | Course can fulfill Core Nat/Phys Science without lab; *Prerequisite: placement into MATH 1401; $\ddagger$ Content Course |
| MATH 2411 Calculus II or MATH 3191 Applied Linear Algebra | $\begin{gathered} 4 \text { or } \\ 3 \end{gathered}$ |  |
| MATH 3000 Introduction to Abstract Mathematics | 3 | *Pre- or co-requisite: MATH 2411 or 3191 (or advisor approval); $\ddagger$ Content Course |
| Choose one of the following courses: | 3 |  |
| MATH 4140 Introduction to Modern Algebra | 3 | *Prerequisite: MATH 3000; $\ddagger$ Content Course |
| MATH 4110 Theory of Numbers | 3 | *Prerequisite: MATH 3000; $\ddagger$ Content Course |
| MATH 4010 History of Mathematics | 3 | *Prerequisite: MATH 3000; $\ddagger$ Content Course |
| MATH 4408 Applied Graph Theory | 3 | *Prerequisite: MATH 3000; $\ddagger$ Content Course |
| Estimated General Electives | 5-14 | General Elective credits will vary; consult with advisor |
| Professional Year Courses | 31 | /\| Professional Year (separate admission required; see note below) |
| LCRT 4100 Secondary Literacy Instruction and Assessment | 3 | + Education Licensure Course; \|| Professional Year |
| STME 4020 Learning and Assessment in STEM: Embracing Design Thinking | 3 | + Education Licensure Course; \|| Professional Year |
| STME 4030 Exploring Approaches to STEM Education: Making Student Learning Visible | 3 | + Education Licensure Course; \|| Professional Year |
| MTED 4622 Expanding Conceptions of Algebra | 3 | + Education Licensure Course; \|| Professional Year |
| MTED 4623 Geometrical Ways of Reasoning | 3 | + Education Licensure Course; \|| Professional Year |
| UEDU 4040 Planning for Learning | 3 | + Education Licensure Course; \|| Professional Year |
| UEDU 4050 Capstone: Planning, Learning \& Assessment | 3 | + Education Licensure Course; \|| Professional Year |
| UEDU 4931 Internship \& Learning Community I | 2 | + Education Licensure Course; \|| Professional Year |
| UEDU 4932 Internship \& Learning Community II | 2 | + Education Licensure Course; \|| Professional Year |
| UEDU 4933 Internship \& Learning Community III | 6 | + Education Licensure Course; \|| Professional Year |
| Total Program Hours: | 126 |  |

$\dagger$ Education Licensure Course: requires minimum grade of B- or higher $\quad \ddagger$ Content Course: requires minimum grade of C - or higher
§ Clinical Field Experience Block: All courses in a clinical field experience block must be taken together, in the same semester
Field experience paperwork deadlines: Fall placement = 4/1 Priority deadline; 4/15 Final deadline. Spring placement = 11/1 Priority deadline; 11/15 Final deadline
|| Professional Year: Admission to Professional Year required; Requirements for admission to Professional Year include:

- A minimum GPA of 3.0 in major coursework
- Successful completion of all other coursework (including Core, major, content, and elective requirements)
- Successful completion of the application and interview process
- Professional Year application deadlines: Fall start $=2 / 15$ deadline. Spring start $=10 / 1$ deadline


## Sample Academic Plan of Study

The following academic plan is a sample pathway to completing degree requirements for this major. Students should tailor this plan based on previously completed college coursework (e.g., AP, IB, CLEP, dual/concurrent enrollment, and transfer credit), course availability, and individual preferences related to course load, schedules, or add-on programs such as minors or double-majors. Consult with an academic advisor to develop an individualized plan of study. Students deviating from this plan must fulfill course prerequisites and must meet with the academic advisor in their department to confirm degree requirements.
*Note: Many required courses are also available in summer semesters.

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| :---: | :---: | :---: |
|  | ENGL 1020 - Core Composition I | 3 |
|  | CLDE 2000 / SEHD Learning Community | 3 |
|  | MTED 3040 | 3 |
|  | General Elective - UNIV 1110 / SEHD Learning Community | 1 |
|  | MATH 2830 (fulfills CU Denver Core Math) | 4 |
|  | General Elective | 3 |
|  | Total Credit Hours | 17 |


| Spring | CRS |
| :--- | :---: |
| ENGL 2030 - Core Composition II | 3 |
| MATH 1401 (fulfills CU Denver Core Nat/Phys Science no lab) | 4 |
| CU Denver Core Nat/Phys Science with lab | 4 |
| EDFN 1000 or LCRT 2000 or LCRT 3815 | 3 |
| Clinical Field Experience Block: Community-Based |  |
| EDHD 1930 | 3 |
| Total Credit Hours | $\mathbf{1 7}$ |


|  | Fall | CRS |
| :---: | :---: | :---: |
|  | HDFR 1010 or 2110 or 3050 | 3 |
|  | MATH 2411 or 3191 | 3 |
|  | CU Denver Core Social Sciences | 3 |
|  | CU Denver Core Arts | 3 |
|  | CU Denver Core Behavioral Sciences | 3 |
|  |  |  |
|  | Total Credit Hours | 15 |


| Spring | CRS |
| :--- | :---: |
| MATH 3000 | 3 |
| General Elective | 4 |
| General Elective | 3 |
| Clinical Field Experience Block: Diverse Learners |  |
| EDHD 2930 | 3 |
| EDFN 4010 | 3 |
| Total Credit Hours | $\mathbf{1 6}$ |


|  | Fall | CRS |
| :---: | :---: | :---: |
|  | SPED 4400 | 3 |
|  | CU Denver Core Humanities | 3 |
|  | CU Denver Core International Perspectives | 3 |
|  | CU Denver Core Cultural Diversity | 3 |
|  | MATH 4140 or 4110 or 4010 or 4408 | 3 |
|  |  |  |
|  | Total Credit Hours | 15 |


| Spring | CRS |
| :--- | :---: |
| CLDE 4020 | 3 |
| MTED 4621 (summer only) | 3 |
| Clinical Field Experience Block: Learning \& Development |  |
| EDHD 3930 | 3 |
| SPED 4030 | 3 |
| CLDE 3830 | 3 |
| Total Credit Hours | 15 |

In first semester of year three, take the appropriate Praxis exam. Students must pass the Praxis prior to beginning their final semester. In second semester of year three, apply for admission to Professional Year. Deadlines for Professional Year application are $2 / 15$ for Fall start or $10 / 1$ for Spring start.

|  | Fall | CRS | Spring | CRS |
| :---: | :---: | :---: | :---: | :---: |
|  | LCRT 4100 | 3 | UEDU 4050 | 3 |
|  | MTED 4622 | 3 | STME 4030 | 3 |
|  | STME 4020 | 3 | MTED 4623 | 3 |
|  | UEDU 4040 | 3 | UEDU 4933 | 6 |
|  | UEDU 4931 | 2 |  |  |
|  | UEDU 4932 | 2 |  |  |
|  | Total Credit Hours | 16 | Total Credit Hours | 15 |
| After graduation, apply for a teaching license through the Colorado Department of Education. |  |  |  |  |

