## MIDDLE SCHOOL <br> MATHEMATICS LICENSE, BA

## Introduction

Please click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/ schools-colleges-departments/school-education-human-development/) to see School of Education \& Human Development information.

The Education and Human Development major with a Middle School Mathematics license focuses on engaging Colorado's rapidly diversifying student and family population. It combines cutting-edge research with real classroom experiences. You'll learn from innovative faculty members who are locally, nationally and internationally recognized for their teaching and research in middle school mathematics education. They will provide you with a robust knowledge base and relevant learning experiences in transforming deep content knowledge into learning experiences for youth across multiple cultural contexts as it relates to teaching youth in grades 6 through 8. You'll engage in powerful classroom experiences and benefit from our rich 20-year history of partnering with schools to prepare teachers.

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.

## Program Delivery

- This is an on-campus program with a variety of delivery options for many of our courses including hybrid, evening, weekend, and online courses.


## Declaring This Major

- Click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/ schools-colleges-departments/school-education-humandevelopment/\#policiestext) to go to information about declaring a major.


## General Requirements

To earn a degree, students must satisfy all requirements in each of the three areas below, in addition to their individual major requirements.

- CU Denver Graduation Requirements (http://catalog.ucdenver.edu/cudenver/undergraduate/graduation/)
- CU Denver Undergraduate Core Curriculum (http:// catalog.ucdenver.edu/cu-denver/undergraduate/graduation-undergraduate-core-requirements/)
- School of Education \& Human Development Graduation Requirements (http://catalog.ucdenver.edu/cu-denver/ undergraduate/schools-colleges-departments/school-education-human-development/\#graduationrequirementstext)
- Click here (http://catalog.ucdenver.edu/cu-denver/undergraduate/ academic-policies-procedures/) for information about Academic Policies


## Program Requirements

- Students must complete a minimum total of 126 semester hours for the EDHD Middle School Mathematics Education Track.
- 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.)
- A minimum of C - is required for all Math content courses.
- 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.
- 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.
- Transfer courses must be approved by faculty and/or advisor to apply to the major.

| Code | Title Hour | Hours |
| :---: | :---: | :---: |
| Major Courses |  |  |
| MTED 3040 | Mathematics for Elementary Teachers ${ }^{1}$ | 3 |
| CLDE 2000 | CLDE Foundations ${ }^{1}$ | 3 |
| CLDE 3830 | Culturally and Linguistically Responsive Teaching through STEM | 3 |
| EDFN 1000 | Equality, Rights \& Education | 3 |
| HDFR 3050 | Children's Thinking and Assessment | 3 |
| MTED 4621 | A World of (Different) Numbers: Quantity and Operation | 3 |
| SPED 4030 | Understanding (dis)Ability in Contemporary Classrooms ${ }^{1}$ | 3 |
| SPED 4400 | Universal Design for Learning (UDL) | 3 |
| EDFN 4010 | Social Foundations and Cultural Diversity in Urban Education ${ }^{1}$ | 3 |
| CLDE 4020 | Responsive Classroom Communities ${ }^{1}$ | 3 |
| EDHD 1930 | Community Based Field Experience \& Seminar ${ }^{1}$ | 3 |
| EDHD 2930 | Learning \& Development Field Experience \& Seminar ${ }^{1}$ | 3 |
| EDHD 3930 | Diverse Learners Field Experience \& Seminar ${ }^{1}$ | 3 |
| Content Courses |  |  |
| A minimum grade of C - or higher is required in each course. |  |  |
| MATH 2830 | Introductory Statistics | 3 |
| MATH 1401 | Calculus I | 4 |
| MATH 2411 or MATH 3191 | Calculus II Applied Linear Algebra | 4 |
| MATH 3000 | Introduction to Abstract Mathematics | 3 |
| Select one of the following: |  | 3 |

$\begin{array}{ll}\text { MATH 4140 } & \text { Introduction to Modern Algebra } \\ \text { MATH 4110 } & \text { Theory of Numbers }\end{array}$

| MATH 4010 | History of Mathematics |
| :--- | :--- |
| MATH 4408 | Applied Graph Theory |

## Professional Year Courses

A minimum grade of $B$ - is required in each course.

| LCRT 4100 | Secondary Literacy Instruction and Assessment | 3 |
| :--- | :--- | :---: |
| MTED 4300 | Curriculum and Methods for Teaching <br> Mathematics | 3 |
| MTED 4301 | Assessment and Equity in Mathematics <br> Instruction | 3 |
| MTED 4622 | Expanding Conceptions of Algebra | 3 |
| MTED 4623 | Geometrical Ways of Reasoning | 3 |
| STME 4001 | Planning for Learning in Mathematics and Science | 3 |
| STME 4051 | STEM Capstone: Secondary Education | 3 |
| UEDU 4931 | Internship \& Lrng Comm I | 2 |
| UEDU 4932 | Internship \& Lrng Comm II | 2 |
| UEDU 4933 | Internship \& Lrng Comm III | 6 |

## General Electives

Additional General Electives hours may be needed to reach the required 126 hours for the BA

## Total Hours

87
${ }^{1}$ Courses require a grade of $B$ - or better; all other courses require a grade of $C$ or better.

To review the Degree Map for this program, please visit our website (https://www.ucdenver.edu/student/advising/undergraduate/degreemaps/sehd/).

