

# SECONDARY MATHEMATICS (6-12 LICENSURE)

Bachelor of Arts in Education and Human Development (B.A.) – Catalog Year 2026 – 2027

## PROGRAM OVERVIEW

The secondary 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 secondary 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.

303-315-6300

[SEHDCademicservices@ucdenver.edu](mailto:SEHDCademicservices@ucdenver.edu)

[www.ucdenver.edu/education](http://www.ucdenver.edu/education)

## 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 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 Secondary Mathematics (6-12 Licensure) are required to complete the following minimum program requirements:

1. Students must complete a minimum total of 126 semester hours for the EDHD Secondary Mathematics Education Track.
2. Students must take the ALEKS Placement Exam to assess their preparedness for Calculus I.
3. 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 the SEHD website.)
4. A minimum of C- is required for all content courses.
5. A minimum GPA of 2.0, grade of C or better, is required for all major courses applying to EDHD – Secondary Mathematics Education requirements unless otherwise specified.
6. 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.
7. Transfer courses must be approved by faculty and/or advisor to apply to the major.

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Courses	Credits	Notes
<b>* Course prerequisites change regularly. Students are responsible for consulting advisors and the class schedule in the student portal for prerequisite information. *</b>		
<b>CU Denver Core Curriculum Requirements</b>	<b>34 - 37</b>	<a href="#">CU Denver Core Curriculum Requirements</a>
<b>EDHD – Secondary Mathematics Education Major Requirements</b>	<b>39</b>	
CLDE 2000 Foundations of Culturally & Linguistically Diverse Edu	3	† Education Licensure Course
HDFR 1010	3	
SPED 4400 Universal Design for Learning (UDL)	3	*Prerequisite: 57+ credit hours completed
MTED 4621 A World of Different Numbers	3	
MTED 4622 Expanding Connections of Algebra	3	
MTED 4623 Geometrical Ways of Reasoning	3	
CLDE 4020 Responsive Classroom Communities	3	*Prerequisites: EDFN 4010, 40+ credit hours completed. † Education Licensure Course
EDFN 1000 or LCRT 2000 or LCRT 3815	3	Choose one course
<b>Clinical Field Experience Block: Community-Based</b>	<b>3</b>	Clinical Field Experience Block
EDHD 1930 Community Based Field Experience & Seminar	3	§ Clinical Field Experience Block
<b>Clinical Field Experience Block: Learning &amp; Development</b>	<b>6</b>	*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	§ Clinical Field Experience Block † Education Licensure Course *Prerequisite: 27+ credit hours completed;
<b>Clinical Field Experience Block: Diverse Learners</b>	<b>6</b>	*Prerequisites: EDHD 2930; § Clinical Field Experience Block
EDHD 3930 Diverse Learners Field Experience & Seminar	3	† Education Licensure Course; § Clinical Field Experience Block
SPED 4030 Understanding (dis)Ability in Contemporary Classrooms	3	† Education Licensure Course; § Clinical Field Experience Block
<b>Secondary Mathematics Content Course Requirements</b>	<b>27-28</b>	
CSCI 1410 Fundamentals of Computing/ CSCI 1411 Lab or MATH 1376 Programming for Data Science	3-4	*Co-requisite: CSCI 1411; ‡ Content Course
MATH 1401 Calculus I	4	The course can fulfill Core Math. *Prerequisite: placement into MATH 1401; ‡ Content Course
MATH 2411 Calculus II	4	Course can fulfill Core Nat/Phys Science without lab. *Prerequisite: MATH 1401; ‡ Content Course
MATH 2421 Calculus III	4	*Prerequisite: MATH 2411; ‡ Content Course
MATH 3191 Applied Linear Algebra	3	*Prerequisite: MATH 2411; ‡ Content Course
MATH 3000 Introduction to Abstract Mathematics	3	*Pre- or co-requisite: MATH 2411 or 3191; ‡ Content Course
MATH 3382 Statistical Theory	3	*Prerequisite: MATH 2421; ‡ Content Course
One additional upper-division MATH course	3	* Check prerequisites for individual courses; ‡ Content Course
<b>Estimated General Electives</b>	<b>0 - 10</b>	General Elective credits will vary; consult with advisor
<b>Professional Year Courses</b>	<b>25</b>	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
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
<b>Total Program Hours:</b>	<b>126</b>	

† Education Licensure Course: requires a minimum grade of B- or higher

‡ Content Course: requires a 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

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## 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 regarding course load, schedules, or add-on programs such as minors or double majors. Consult an academic advisor to develop an individualized plan of study. **Students deviating from this plan must fulfill course prerequisites and meet with their department's academic advisor to confirm degree requirements.**

*\*Note: Many required courses are also available in summer semesters.*

### Year One

Fall	CRS
ENGL 1020 – Core Composition I	3
CLDE 2000 / SEHD Learning Community	3
General Elective – UNIV 1110 / SEHD Learning Community	1
CU Denver Core Humanities	3
MATH 1401 ( <i>fulfills CU Denver Core Math</i> )	4
General Elective	2
<b>Total Credit Hours</b>	<b>16</b>

Spring	CRS
ENGL 2030 – Core Composition II	3
MATH 2411 ( <i>fulfills CU Denver Core Nat/Phys Science no lab</i> )	4
CSCI 1410 and 1411	4
EDFN 1000 or LCRT 2000 or LCRT 3815	3
<b>Clinical Field Experience Block: Community-Based</b>	
EDHD 1930	3
<b>Total Credit Hours</b>	<b>17</b>

### Year Two

Fall	CRS
HDFR 1010	3
MATH 2421	4
MATH 3191	3
CU Denver Core Arts	3
SPED 4400	3
<b>Total Credit Hours</b>	<b>16</b>

Spring	CRS
MATH 3000	3
CU Denver Core Nat/Phys Science with lab	4
MTED 4621 (Summer Course Only)	3
<b>Clinical Field Experience Block: Learning &amp; Development</b>	
EDHD 2930	3
EDFN 4010	3
<b>Total Credit Hours</b>	<b>16</b>

### Year Three

Fall	CRS
MATH 3382	3
MTED 4622	3
CU Denver Core International Perspectives	3
<b>Clinical Field Experience Block: Diverse Learners</b>	
EDHD 3930	3
SPED 4030	3
<b>Total Credit Hours</b>	<b>15</b>

Spring	CRS
CLDE 4020	3
CU Denver Core Cultural Diversity	3
CU Denver Core Behavioral Sciences	3
CU Denver Core Social Sciences	3
Upper-division MATH course	3
MTED 4623	3
<b>Total Credit Hours</b>	<b>18</b>

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.

### Year Four: Professional Year

Fall	CRS
LCRT 4100	3
UEDU 4040	3
STME 4020	3
UEDU 4931	2
UEDU 4932	2
<b>Total Credit Hours</b>	<b>13</b>

Spring	CRS
UEDU 4050	3
STME 4030	3
UEDU 4933	6
<b>Total Credit Hours</b>	<b>12</b>

After graduation, apply for a teaching license through the Colorado Department of Education.