

PROGRAM OVERVIEW

The secondary science program ensures that you will develop deep content knowledge across a number of disciplines important to become a successful science teacher with courses in physics, biology, chemistry and geology. You will also be prepared with the methods and foundations coursework that will make you a highly effective, innovative and compassionate secondary science 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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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/requirement 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 Science (7-12 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 Science 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 – Secondary Science 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.

Legend for Program Requirements on next page:

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

‡ **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

SECONDARY SCIENCE (7-12 LICENSURE)

Bachelor of Arts in Education and Human Development (B.A.) – Catalog Year 2023 - 2024

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 – Secondary Science Education Major Requirements	29	
CLDE 2000 Foundations of Culturally & Linguistically Diverse Edu	3	† Education Licensure Course
HDFR 1010 Lifespan Development	3	
SCED 4340: Equity & Culture in Science Education: Local/Global	2	
CLDE 4020 Responsive Classroom Communities	3	*Prerequisites: EDFN 4010, 40+ credits; †Education Licensure Course
Clinical Field Experience Block: Community-Based	6	§ Clinical Field Experience Block
EDHD 1930 Community Based Field Experience & Seminar	3	† Education Licensure Course; § Clinical Field Experience Block
EDFN 1000 Equity, Rights & Education	3	Course can fulfill Core Social Sciences; § 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 *Prerequisite: 27+ credits completed
Clinical Field Experience Block: Diverse Learners	6	*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
Secondary Science Content Course Requirements	27	
MATH 1110 College Algebra (or higher)	3	Course can fulfill Core Math; ‡ Content Course
BIOL 2021 General Biology I	3	‡ Content Course
BIOL 2010 General Biology II	3	*Prerequisite: BIOL 2021; ‡ Content Course
CHEM 2031 General Chemistry I	3	‡ Content Course
CHEM 2010 General Chemistry II	3	*Prerequisite: CHEM 2031; ‡ Content Course
PHYS 2010 College Physics I or PHYS 2311 General Physics I	4	*Check individual courses for prerequisites; ‡ Content Course
PHYS 2020 College Physics II or PHYS 2331 General Physics II	4	*Check individual courses for prerequisites; ‡ Content Course
GEOL 1073 Physical Geology: Surface Processes	3	*Co-requisite: GEOL 1074; ‡ Content Course
GEOL 1074 Physical Geology: Surface Processes Laboratory	1	*Co-requisite: GEOL 1073; ‡ Content Course
Track Requirements	8 - 11	Select a track and take all required courses for that track.
Biology Track	11	
BIOL 2021 General Biology Laboratory I	1	‡ Content Course
BIOL 2011 General Biology Laboratory II	1	‡ Content Course
CHEM 2038 General Chemistry Laboratory I	1	*Co-requisite: CHEM 2031; ‡ Content Course
CHEM 2068 General Chemistry Laboratory II	2	*Prerequisite: CHEM 2038; co-req: CHEM 2010; ‡ Content Course
Two additional upper-division courses in BIOL (6 credits minimum)	6	*Check individual courses for prerequisites; ‡ Content Courses
Chemistry Track	9	
CHEM 2038 General Chemistry Laboratory I	1	*Co-requisite: CHEM 2031; ‡ Content Course
CHEM 2068 General Chemistry Laboratory II	2	*Prerequisite: CHEM 2038; co-req: CHEM 2010; ‡ Content Course
Two additional upper-division courses in CHEM (6 credits minimum)	6	*Check individual courses for prerequisites; ‡ Content Courses
Environmental Sciences/Geology Track	8 - 9	
BIOL 2021 Gen Biology Lab I or CHEM 2038 Gen Chemistry Lab I	1	*Check individual courses for prerequisites; ‡ Content Course
BIOL 2011 Gen Biology Lab II or CHEM 2068 Gen Chemistry Lab II	1 – 2	*Check individual courses for prerequisites; ‡ Content Course
Two additional upper-division courses in ENVS or GEOL (6 credits minimum)	6	*Check individual courses for prerequisites; ‡ Content Courses
Physics Track	8	
PHYS 2321 Intro Experimental Phys Lab I	1	*Check individual courses for prerequisites; ‡ Content Course
PHYS 2341 Intro Experimental Phys Lab II	1	*Check individual courses for prerequisites; ‡ Content Course
Two additional upper-division courses in PHYS (6 credits minimum)	6	*Check individual courses for prerequisites; ‡ Content Courses
Estimated General Electives	0 - 14	General Elective credits will vary; consult with advisor
Professional Year Courses	28	Professional Year (separate admission required; see note below)
LCRT 4100 Secondary Literacy Instruction and Assessment	3	† Education Licensure Course; Professional Year
SPED 4400 Universal Design for Learning (UDL)	3	† Education Licensure Course; Professional Year
SCED 4400 Theory & Pedagogy of Science Learning	3	† Education Licensure Course; Professional Year
SCED 4401 Inquiry Science Pedagogy and Practices	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	

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.*

Year One	Fall	CRS
	ENGL 1020 – Core Composition I	3
	CLDE 2000 / SEHD Learning Community	3
	General Elective – UNIV 1110 / SEHD Learning Community	1
	MATH 1110 or higher (fulfills CU Denver Core Math)	4
	CU Denver Core Humanities	3
	BIOL 2020 (fulfills CU Denver Core Nat/Phys Science)	3
	BIOL 2021 (if required for track)	0-1
	Total Credit Hours	17-18

Spring	CRS
ENGL 2030 – Core Composition II	3
General Elective (<i>CHEM 1000 recommended</i>)	3
BIOL 2010	3
BIOL 2011 (if required for track)	0-1
Clinical Field Experience Block: Community-Based	
EDHD 1930	3
EDFN 1000 (fulfills CU Denver Core Social Sciences)	3
Total Credit Hours	15-16

Year Two	Fall	CRS
	HDFR 1010	3
	CHEM 2031	3
	CHEM 2038 (if required for track)	0-1
	GEOL 1073	3
	GEOL 1074	1
	CU Denver Core Behavioral Sciences	3
	CU Denver Core Arts	3
	Total Credit Hours	16-17

Spring	CRS
General Elective	2
CHEM 2010	3
CHEM 2068 (if required for track)	0-2
CU Denver Core International Perspectives	3
Clinical Field Experience Block: Learning & Development	
EDHD 2930	3
EDFN 4010	3
Total Credit Hours	14-16

Year Three	Fall	CRS
	PHYS 2010 or PHYS 2311	4
	PHYS 2321 (if required for track)	0-1
	General Elective	3
	Upper-division science content course for track	3
	Clinical Field Experience Block: Diverse Learners	
	EDHD 3930	3
	SPED 4030	3
	Total Credit Hours	16-17

Spring	CRS
CLDE 4020	3
CU Denver Core Cultural Diversity	3
PHYS 2020 or PHYS 2331	4
PHYS 2341 (if required for track)	0-1
Upper-division science content course for track	3
SCED 4340	3
Total Credit Hours	16-17

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.

Year Four: Professional Year	Fall	CRS
	LCRT 4100	3
	SPED 4400	3
	SCED 4400	3
	UEDU 4040	3
	UEDU 4931	2
	UEDU 4932	2
	Total Credit Hours	16

Spring	CRS
UEDU 4050	3
SCED 4401	3
UEDU 4933	6
Total Credit Hours	12

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