



University of Colorado **Denver**

2014-15 Graduate Catalog

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2014-2015 Graduate Catalog



CU Denver

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Information/Admissions

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The 2014-2015 CU Denver catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2014, Spring 2015, and Summer 2015 semesters. Although this catalog was prepared using the best information available at the time, all information is subject to change without notice or obligation. The university claims no responsibility for errors that may have occurred during the production of this catalog.

The courses listed in this catalog are intended as a general indication of the University of Colorado Denver curricula on the Denver campus. Courses and programs are subject to modification at any time. Not all courses are offered every semester, and faculty teaching particular courses or programs may vary from time to time. The content of a course or program may be altered to meet particular class needs.

Previous editions of this catalog are available [online](#) .

The University of Colorado Denver is an affirmative action/equal opportunity employer and educator committed to excellence through inclusiveness.

About CU Denver

Click on any of the following links to go quickly to that information:

- [About Our Students](#)
- [Academic Programs](#)
- [Accreditation](#)
- [Anschutz Medical Campus—Aurora](#)
- [Denver Campus](#)
- [Executive Team](#)
- [History and Evolution](#)
- [Mission, Vision and Values](#)
- [Quick Facts](#)
- [Ranking Information](#)
- [Related Organizations](#)
- [University of Colorado System](#)



Welcome to a university for the 21st century.

The University of Colorado Denver (CU Denver) plays a critical role in the development and well-being of the state and its citizens, with a dedication to advancing and inspiring learning and teaching; community and culture; discovery and innovation; and health and wellness. We are the region's premier public urban research university.

By combining the excellence of our academic programs at CU Denver with the extensive research and teaching of the CU Anschutz Medical Campus in Aurora, we provide a unique option in the University of Colorado system. Here at the University of Colorado Denver | Anschutz Medical Campus you will benefit from:

Academic choices—more than 130 degree programs in 13 schools and colleges

A spirit of collaboration—the synergy of combining disciplines to create courses of study like public health administration, bioengineering or health and behavioral sciences

Outstanding location—access to a vibrant, safe urban lifestyle, alongside opportunities to gain experience in projects and internships at businesses and corporations throughout the Denver metropolitan area

We are a leading economic driver and job creator for the state of Colorado—a valued partner in our community and a place of academic excellence for you, the students who have turned to us to pursue your educational dreams.

Here you'll have access to the opportunities you need to achieve your educational goals. You will meet faculty dedicated to excellence in the classroom and in research laboratories and fellow students who are diverse, goal-oriented and energetic. Whether you engage in undergraduate or graduate studies, the University of Colorado Denver degree has global respect and you can rest assured that you will have been well-prepared for the next stage of your work or academic life.

It's a privilege to have you join us.

Don Elliman
Chancellor

[Executive Team](#)

Donald M. Elliman Jr.
Chancellor
BA, Middlebury College

Lilly Marks
Vice President for Health Affairs and

Executive Vice Chancellor for Anschutz Medical Campus
BS, University of Colorado Boulder

Leanna Clark

Vice Chancellor for University Communications
BS, University of Colorado Boulder

Richard Krugman

Vice Chancellor for Health Affairs and Dean of School of Medicine
AB, Princeton University
MD, New York University

Roderick Nairn

Provost and Vice Chancellor for Academic and Student Affairs
BSc, University of Strathclyde (Scotland)
PhD, University of London (England)

Jeff Parker

Vice Chancellor for Administration and Finance
BS, Western State College

Richard Traystman

Vice Chancellor for Research
MS, Long Island University
PhD, The Johns Hopkins University

Matthew Wasserman

Vice Chancellor for Development
BA, Colorado State University
MBA, University of Colorado Denver

[University of Colorado Denver | Anschutz Medical Campus](#)

Note: This catalog provides course listings only for CU Denver, one of the two campuses that make up the University of Colorado Denver | Anschutz Medical Campus.

The University of Colorado Denver | Anschutz Medical Campus was formed July 1, 2004 by the consolidation of two established campuses in the University of Colorado system. The university joins the strengths of a comprehensive campus in downtown Denver with the research and advanced health care programs on the Anschutz Medical Campus in Aurora. Educating more than 14,000 students on our Denver Campus (CU Denver) plus more than 3,000 students in health sciences programs, the consolidated university is one of the nation's top public urban research universities.

The University of Colorado Denver | Anschutz Medical Campus offers a unique experience for students. Its Denver Campus is in the heart of the city-the business, cultural and political capital

of the West. Its Anschutz Medical Campus in nearby Aurora is the nation's newest health sciences campus, where discoveries in the lab and in the clinic transform medical treatments into cures.

More and more undergraduates are discovering the value of classes in the city taught by professors who are connected with top companies often advising the same CEOs who are hiring our graduates. New housing adjacent to campus, easy commuting by light rail and discounts to cultural and sporting events give students many options for immersion in vibrant city life. In addition, affiliations with research labs and hospitals at Anschutz Medical Campus make CU Denver an excellent place to start a health care career.

The University of Colorado Denver | Anschutz Medical Campus enrolls students from 50 states and 86 countries, and awards more graduate degrees than any other university in Colorado. It is known for its programs in urban sustainability, criminal justice, business, education, applied science and engineering, film and music industry as well as a full array of health professional programs at the Anschutz Medical Campus. The graduate student population is a diverse mix of ages and ethnicities, creating a rich environment for learning and networking.

Other reasons why students choose the University of Colorado Denver | Anschutz Medical Campus:

- **Small class sizes:** average undergraduate student-to-teacher ratio is 17:1.
- **The Denver vibe:** Colorado has always attracted the adventurous. It is one of the healthiest in the country, with an extensive network of bike trails and quick access to mountain sports. The Denver Campus is adjacent to a thriving arts district.
- **Collaborative culture:** Cross-disciplinary learning and research is a core value-programs blend technology with health care, business with public policy, behavioral health with architecture and public health with health providers.
- **Choices:** With 13 schools and colleges offering more than 130 degree programs, the University of Colorado Denver is a major university for the coming century.

Denver Campus

With a solid academic reputation and award-winning faculty, the Denver Campus offers bachelor's, master's and doctoral programs through seven distinct academic units:

[College of Architecture and Planning](#)

[College of Arts & Media](#)

[Business School](#)

[School of Education & Human Development](#)

[College of Engineering and Applied Science](#)

[College of Liberal Arts and Sciences](#)

[School of Public Affairs](#)

Anschutz Medical Campus-Aurora

In achieving its mission of education, research, patient care and community service, the Anschutz Medical Campus offers degree programs through six schools and colleges:

School of Dental Medicine
Graduate School
School of Medicine
College of Nursing
School of Pharmacy
Colorado School of Public Health

Contact the individual school or program coordinator for details.

Mission, Vision and Values

Mission

The University of Colorado Denver | Anschutz Medical Campus is a diverse teaching and learning community that creates, discovers and applies knowledge to improve the health and well-being of Colorado and the world.

Vision

By 2020, The University of Colorado Denver | Anschutz Medical Campus will be a leading public university with a global reputation for excellence in learning, research and creativity, community engagement and clinical care.

Values

To be a university greater than the sum of its parts, the University of Colorado Denver | Anschutz Medical Campus embraces excellence in:

Learning and Scholarship

The University of Colorado Denver | Anschutz Medical Campus respects academic freedom and the rigorous quest for knowledge and understanding. We share knowledge and foster student success through a continuous process of inquiry, critical thinking, reflection, collaboration and application.

Discovery and Innovation

The University of Colorado Denver | Anschutz Medical Campus fosters an energetic, collaborative and creative environment where we develop and employ new ideas and technologies. Our entrepreneurial culture enables us to expand the frontiers of knowledge and human experience.

Health and Care of Mind, Body and Community

The University of Colorado Denver | Anschutz Medical Campus enriches the well-being and sustainability of communities and our cultural, living and natural environments. We promote healthy lifestyles, prevent, diagnose and treat disease and deliver high-quality and compassionate health care.

Diversity, Respect and Inclusiveness

The University of Colorado Denver | Anschutz Medical Campus seeks the richness that an increasing diversity of our communities brings to our learning, research and service endeavors. Our common humanity leads us to create an inclusive and respectful ethos characterized by caring, empathy, compassion, nurturing, collegiality and mentoring.

Citizenship and Leadership

The University of Colorado Denver | Anschutz Medical Campus serves Colorado and the world as a recognized source of talent, knowledge, informed judgment, exemplary health care and professional practice. We are responsible stewards of the resources entrusted to us and utilize them with integrity for the betterment of our community.

Details about the mission, vision, values and strategic plan for the university are available at: <http://www.ucdenver.edu/about/WhoWeAre/Chancellor/Pages/StrategicPlan.aspx>.

University of Colorado System

The University of Colorado is a system of three universities with campuses located in Boulder, Colorado Springs and Denver/Aurora. With combined total enrollments of more than 60,000 students, the University of Colorado system consistently ranks in the top 15 among public universities and colleges in overall research expenditures and seventh among public universities in federally funded research. Awards for research within the system total more than \$770 million, with funding provided by federal agencies, appropriations from the state of Colorado and private foundations and donors.

Board of Regents

Steve Bosley

At Large

term expires 2017

Michael Carrigan, Chair

District 1

term expires 2017

Glen Gallegos

District 3

term expires 2019

Dr. Jim Geddes
District 6
term expires 2015

Irene C. Griego
District 7
term expires 2015

Kyle Hybl
District 5
term expires 2019

Stephen Ludwig
At Large
term expires 2019

Joseph Neguse
District 2
term expires 2015

Sue Sharkey, Vice Chair
District 4
term expires 2017

History and Evolution of the University of Colorado Denver

1876 Legislature founds the University of Colorado

1883 Medical department opens with two students

1898 CU establishes School of Nursing

1912 CU organizes the Department of Correspondence and Extension in Denver

1913 CU establishes School of Pharmacy

1925 CU dedicates 9th and Colorado Blvd. medical center

1956 Regents purchase Tramway Building for Extension Division

1965 Regents change extension name to University of Colorado-Denver Center

1972 CU-Denver Center changes name to University of Colorado at Denver

1973 School of Dentistry enrolls its first class; state begins building Auraria Campus

1974 CU reorganizes as a four-campus system

1988 CU-Denver moves into the 257,000 square-foot North Classroom Building on the Auraria Campus

1992 School of Pharmacy moves from Boulder to Health Sciences Center

1995 Government conveys 217 acres at Fitzsimons to CU for modern health sciences facility

2000 First new and remodeled facilities open at Fitzsimons

2004 Regents consolidate CU Denver and Health Sciences Center to form the University of Colorado at Denver and Health Sciences Center

2006 Fitzsimons campus renamed Anschutz Medical Campus

2007 Regents approve shortened version of the name: University of Colorado Denver

2008 Medical, dental, pharmacy and nursing students start classes, Colorado School of Public Health enrolls first students on the Anschutz Medical Campus

2011 Regents approve name change, to University of Colorado Denver | Anschutz Medical Campus

Accreditation

The University of Colorado Denver is institutionally accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.

The commission can be contacted at:

230 South LaSalle Street, Suite 7-500

Chicago, IL 60604

Telephone: 1-800-621-7440

Many professional organizations have also granted accreditation to programs, colleges and schools at the Denver Campus, including:

- Accreditation Board for Engineering and Technology
- Association for the Advancement of Collegiate Schools of Business-International
- Colorado State Board of Education
- Commission on Accreditation of Healthcare Management Education
- Council for Accreditation of Counseling and Related Educational Programs
- Council for the Accreditation for Educator Preparation
- Landscape Architecture Accreditation Board
- National Architectural Accrediting Board
- National Association of Schools of Music
- National Association of Schools of Public Affairs and Administration
- Planning Accreditation Board

Academic Programs

CU Denver is devoted to the needs of the residents of the city and the region. A solid foundation of academic and general education is assured through a comprehensive core curriculum. Students may pursue graduate education through all of the campus' colleges and schools. Pre-professional training in the fields of education, law, journalism and health careers is also available. Complete listings of areas of study available on the Denver Campus are available in the [Programs](#) section of the catalog.

The colleges and schools sections of this catalog provide information on bachelor's, master's and doctoral degree programs, policies on requirements for graduation, course requirements, course-load policies, course descriptions and similar information.

Continuing and Professional Education

The Division of Continuing and Professional Education offers complete degree programs, certificate/certification courses, professional development programs, precollegiate outreach programs and personal enrichment courses across the state of Colorado. Courses are offered in a variety of formats, including traditional on-campus, off-campus, online, hybrid, weekend, evening, short and condensed courses and many others.

Registration and tuition varies by school or college. Contact the specific school or college to learn about current program and course offerings, or contact the Academic Technology and Extended Learning office at 303-556-2040.

About Our Students

The diversity of our student body is a source of deep pride. Ethnic minority students make up 24 percent of the student population. Classes include traditional students who have elected to pursue college degrees immediately after high school, transfer students, students who have delayed college entry and professionals who seek to strengthen their base of skills or broaden their appreciation of the world.

With students' ages ranging between 16 and 74, the average undergraduate student age at CU Denver is 24, while our graduate students average 32. They represent a distinctive mix of ages and backgrounds. All take advantage of the convenience of course offerings at times that meet their schedules, enjoying an enviable student-to-faculty ratio of 17:1.

Related Organizations

Alumni Association

Mailing Address: Campus Box 189, P.O. Box 173364, Denver, CO 80217

Telephone: 303-315-2333

Fax: 303-315-2332

E-mail: ucdalumni@ucdenver.edu

The University of Colorado Denver Alumni Association provides programs and services of mutual benefit to graduates and the university. Founded in 1976, the Denver Campus association is governed by a board of alumni representing all schools and colleges. Students automatically become Alumni Association members upon graduation and receive the *CU on the Horizon* newsletter, published twice a year. Alumni are invited to volunteer on committees, which include recognizing 4.0 students through the Academic Athlete program, providing financial assistance to students through a scholarship fund and bestowing Alumni Association awards to worthy graduates and community leaders. The association also invites alumni to attend periodic seminars and events.

University of Colorado Denver - Office of University Development

Mailing Address: 1380 Lawrence Street, Suite 1325, Denver, CO 80204

Telephone: 303-315-3601

Fax: 303-315-2063

Email: development@ucdenver.edu

The University of Colorado Denver Office of Development collaborates with faculty, staff, donors, alumni, and friends to raise private support for the university.

CU Denver academic leadership establishes priorities for private support, and gifts are directed to the specific schools, program, or purpose that the donor designates. CU Denver Development fundraisers identify and/or generate interest in the university, assist donors in gift planning, and solicit gifts in collaboration with academic partners and leaders. (Gift funds are managed and invested by the partner University of Colorado Foundation, which also manages the university endowment.)

These gifts endow scholarships and professorships, further research, enrich academic programs, upgrade and construct facilities, and support projects and programs in all areas of the university.

Ranking Information

To see our ranking information go to:

www.ucdenver.edu/about/departments/InstitutionalResearch/InstitutionalCharacteristics/Pages/RankingAccomplishments.aspx.

University Quick Facts

Locations

Denver Campus
Attributes

Anschutz Medical Campus Attributes

Denver Campus (Auraria)

Enrollment

Anschutz Medical Campus (Aurora)	Enrollment	3,712*
Total Enrollment	14,103*	Undergraduate: 434* (14% male, 86% female)
17,815 students enrolled in fall 2013*	9,752 Undergraduate* (50% male, 50% female)	Graduate: 1,488* (24% male, 76% female)
57% undergraduate 33% graduate 10% first professional 72% full time 15% out-of-state residents 7% international students	4,351 Graduate* (44% male, 56% female)	First Professional: 1,790* (44% male, 56% female)
Degrees	Student-Faculty Ratio	Diverse Population
Bachelor's, master's, doctoral, first-professional	17:1‡	22% ethnic minority
Programs	Incoming	Average Age
136 degree programs	Freshmen: 1,155	Undergraduate: 30
Schools and Colleges	Transfers: 1,135	Graduate: 31
Denver Campus	Graduate Students: 909	First Professional: 27
College of Architecture and Planning	Diverse Population	Bragging Rights
College of Arts & Media	29% ethnic minority	<i>U.S. News & World Report, America's Best Graduate Schools, 2013</i> (Unless otherwise noted, it is the most recent year ranked)
Business School	Undergraduate: 36%	
School of Education & Human Development	Graduate: 15%	Health Disciplines
College of Engineering and Applied Science	Average age: 26	Nursing, MS —15
College of Liberal Arts and Sciences	Undergraduate: 24	Nurse midwifery - 13
School of Public Affairs	Graduate: 32	Nurse practitioner: family —16
Anschutz Medical Campus	Student Body	pediatrics —5
School of Dental Medicine	From 50 states and 67 countries*	Pharmacy, PharmD (2008)—23
	Bragging Rights	Physician Assistant, MS, PhD —11

School of Medicine
College of Nursing
School of Pharmacy
Colorado School of
Public Health
Graduate School

Research Funding

More than \$390 million
in sponsored research

Alumni

139,131 (71% live in
Colorado)‡

*U.S. News & World
Report America's Best
Graduate Schools, 2013*

School of Public
Affairs, Top
Schools #29

Environmental
Policy &
Management #10

NonProfit
Management #14

Public
Administration #24

*The Princeton Review,
2008 America's Best
Value Colleges*

Best Western
Colleges, Best in
the West

Additional bragging
rights for schools and
colleges on this campus
are available in their
sections of this catalog.

Schools of Medicine

Primary care—5
Research—35
Specialties:

Family medicine—3
Pediatrics—5
Rural Medicine— 8

The Sciences

Biological sciences: Graduate
School, Anschutz Campus —68

Additional bragging rights for schools and
colleges on this campus are available in
the [Health Professions section](#).

*Fall 2013 end-of-term

‡2012-2013 Fiscal Year Data

Information for Graduate Students

Click on any of the following links for information:

- [Graduate School](#)
- [Assistantships and Fellowships](#)
- [Master's Degrees](#)
- [Doctor of Philosophy](#)

- [Requirements for Advanced Degrees](#)
- [Graduate Faculty](#)

Welcome to the Graduate School on the Denver Campus. Almost half of our students on the Denver Campus are enrolled in graduate programs. We have a higher ratio of graduate to undergraduate students than most other universities in the country. This special emphasis on graduate education provides a strong culture of graduate studies on the campus and has engendered a number of innovative programs and teaching methods, such as dual master's degrees or classes that are entirely online. Graduate programs on the Denver Campus also benefit from CU Denver's immediate proximity to the city, which provides rich opportunities for internships and employment, collaborations between the university and the city and a wealth of real world problems that can test and elaborate ideas gained in the classroom.

A list of all graduate programs is available in the [Academic Programs section](#) of the CU Denver website.

The Denver Campus Graduate School offers 31 master's programs and 11 PhD programs. In addition, schools and colleges offer other master's programs that are independently accredited and are not housed in the Graduate School. For students in those programs, most of your needs will be met by the department in which your program resides. Information about these graduate programs is available under the specific school or college in this catalog. However some programs, those having a diamond designation ("Graduate School Rules apply to the program"), are programs within the Graduate School and follow the rules outlined in this section.

The colleges and schools offering graduate opportunities on the Denver Campus include:

College of Architecture and Planning
College of Arts & Media
Business School
School of Education & Human Development
College of Engineering and Applied Science
College of Liberal Arts and Sciences
School of Public Affairs

Individual graduate programs are described within the school/college sections of the catalog.

Graduate School

Dean: Barry D. Shur, PhD

Graduate Coordinator: Jessica Halliday

Online Applications Manager: Krystal Allen

Online Applications Specialist-CLAS: Marissa Tornatore

Online Applications Specialist-CEAS: Natalya Semyonova

Office: 1380 Lawrence Street, Suite 1251

Telephone: 303-315-2183

Fax: 303-315-5829

Mailing Address: P.O. Box 173364, Campus Box 163, Denver, CO 80217

Website: www.ucdenver.edu/academics/colleges/Graduate-School/Pages/default.aspx

Graduate education is a central component of the mission of the University of Colorado Denver. The Graduate School is one of several schools within CU Denver, and its mission is to facilitate and enhance the educational experiences and opportunities for all graduate students and to encourage excellence in research, creative and scholarly work.

In accordance with this mission, the Graduate School leadership, together with the graduate faculty, plans, develops, approves, evaluates and administers graduate programs (PhD and master's degree programs) and certificate programs. The Graduate School also ensures that graduate programs comply with, or exceed, the Graduate School's standards of excellence and execute sound academic administration as established by the [Graduate School Policies and Procedures](#) and adopted by the University Board of Regents and the Colorado Commission on Higher Education. In particular, the Graduate School is charged with maintaining high standards and quality of both the graduate programs and the graduate faculty. Other functions of the Graduate School include:

- a) Developing and fostering multidisciplinary, interdisciplinary and innovative programs and promoting collaborations that create unique opportunities for student learning, research and discovery;
- b) Formulating and maintaining uniform standards for academic excellence in graduate-level courses and research experiences offered for credit;
- c) Promoting a supportive environment for the graduate student community;
- d) Providing a voice for graduate education in the University's strategic planning; and
- e) Publishing a current Graduate School Student Handbook on the Graduate School website.

[Graduate School Policies and Procedures](#)

Requirements for Admission

Note that the following are minimum requirements. College and school regulations, if more stringent, take precedence over the minimum guidelines as set forth by the Graduate School.

Regular Degree Students

Students are admitted by the Graduate School as regular degree students provided they meet the following criteria:

- Hold a baccalaureate or master's degree from an accredited college or university or demonstrate completion of work equivalent to the baccalaureate or master's degree given at CU Denver. Applicants whose credentials include studies or coursework at a College or University outside the USA (not taken as part of a semester abroad program) must include

original transcripts and documentation in English (or certified English translation) of the transcript as evaluated by the CU Denver Office of International Affairs.

- have an undergraduate grade point average of 3.00 or better (“A” is equal to 4.0) or a 3.00 or better GPA in twelve (12) credit hours or more of a partially completed graduate level Master’s degree program. Applications from individuals who attended a College or University that does not issue grades or a GPA will be evaluated by the Graduate School on a case-by-case basis.
- Have adequate preparation to enter graduate study in the chosen program as demonstrated by their performance in the GRE or an appropriate substitute (i.e., MCAT, an earned MS/MA or PhD from a school in the United States, or completion of at least 12 credit hours of transferable graduate-level course work from an accredited US college or university). Although the Graduate School recommends that applicants take the GRE or other standardized test, it is not a requirement for admission as a regular degree student if one of the other two indicators of preparedness is present. Some graduate programs, however, may require that all applicants take the GRE or an equivalent.
- Meet any additional requirements (such as particular undergraduate course work) for admission as established by the program.

International students must meet ALL of these requirements and also must provide:

- original transcripts and documentation in English (or a certified English translation) of the completion of a Bachelor’s degree, Master’s degree or the equivalent as evaluated by the CU Denver Office of International Affairs;
- financial and other documents as required by the International Student and Scholar Services Office to process immigration documents;
- a certified English translation of all academic records and references not in English, and
- evidence of proficiency in English as defined in the University policy Official Measures of English Language Proficiency for Admission of International Students (effective July 1, 2012) by satisfying one of the following criteria:
 - the applicant is a citizen of a country whose official language is English, which includes Australia, Belize, Botswana, Canada (except Quebec), Commonwealth Caribbean, Ghana, Great Britain, India, Ireland, Kenya, New Zealand, Nigeria, Scotland, Singapore, South Africa, and Zimbabwe; or
 - the applicant obtains a composite score of 75 or above on the Test of English as a Foreign Language (TOEFL, iBT) (minimum subscores of 15 in Reading, 14 in Listening, 19 in Speaking, and 20 in Writing) or a composite score of 6.5 or above on the International English Language Testing System (IELTS) (minimum subscores of 5.5 in each area). Schools or Colleges, or individual graduate programs may require higher standards on these tests; or
 - the applicant has graduated from CU Denver’s ESL Academy; or
 - the applicant has graduated with a bachelor’s degree or higher from a foreign institution where the language of instruction was English. (The applicant must provide a letter from the home institution verifying this information if the language of instruction is not clearly indicated on the official academic transcript.); or
 - the applicant has graduated with a bachelor’s degree or higher from a US accredited school abroad where the language of instruction was English. (The applicant must provide a letter from the home institution verifying this information if the language of instruction is not clearly indicated on the official academic transcript.); or

- the applicant has earned a bachelor's degree in the US or has successfully completed a minimum of 2 semesters (a minimum of 12 credits) of full-time study in a graduate-level master's program at an accredited institution in the US and obtained a "B" (3.00) cumulative GPA or higher.

Additional requirements and documentation may also be required.

Provisional Degree Students

A Graduate Program that wishes to admit an applicant who does not meet the criteria for admission as a Regular degree student can petition the Graduate School to admit the applicant as a Provisional degree student. On the provisional form that accompanies the student's admission documents, the graduate Program Director outlines the rationale to support such an admission. The form must include a description of the conditions that the student must meet in order to become a Regular degree student. The admission of the applicant as a Provisional degree student requires the approval of the Dean. Based on the requirements of the Graduate Program and the recommendations of the graduate Program Director, the Dean will make a determination and advise the Program Director and the student of the conditions that the student must satisfy in order to be transferred from Provisional to Regular status. The Dean, in consultation with the Program Director, will also determine the time period (1 or 2 semesters for full-time students and a maximum of 4 semesters for part-time students) in which these conditions must be met. Provisional students are subject to the same standards of performance required of Regular degree students, plus any other requirements imposed by Program faculty as conditions of admission. At the end of the specified probationary period, the Dean, in consultation with the Program Director will review the performance of the Provisional degree student. Provisionally admitted students must either have satisfied the requirements for conversion and be admitted to Regular degree status or be dismissed from the Graduate Program to which they were provisionally admitted. The Graduate School will notify both the Program Director and the student whether the indicated requirements have been met and the student's status has been converted to that of a Regular student, or if the student failed to meet the requirements and has been dismissed.

Application Procedures

Applicants seeking admission to CU Denver's graduate programs should apply online at:

https://soa.prod.cu.edu/degreeprog/applyDEGREEPROG_CUDEN/login.action

rather than to the department or the Office of Admissions. Refer to department/program sections in this catalog for more information regarding specific application instructions and requirements. Online applications are submitted electronically to the department processing your application. Most supplementary application materials will be uploaded in the online application, but items such as transcripts should be mailed to the address listed in the online application. International applicants should refer to the [Information for International Students](#) chapter for more information regarding specific application instructions and requirements.

Be sure to clearly mark the supplementary materials with your current full name, the department to which you are applying and contents of the supplementary material. In addition, sufficient postage must be included if the materials are to be returned to the applicant. If applying to more than one department, you must submit a complete application and separate fee to each department. Students will receive offers of admission or rejection from the graduate department to which they are applying.

An applicant for admission must present:

- Submitted online application
- Two official transcripts for all academic work in colleges and universities completed to date.
- Three letters of reference. The online application will automatically send recommendation forms to the recommenders indicated on the application. Electronic recommendation letters are submitted to the department processing your application. If recommenders prefer to send letters in the mail, then provide the address listed in the online application or obtain the address for the specific department to which you are applying.
- A nonrefundable application fee of \$50 for domestic students or \$75 for international students. *No application will be processed until this fee is paid.*
- Any other material required specifically by the program faculty. This may include scores from the GRE or other examination (GRE School code 4875). Check with program coordinators in the departments for additional information that may be required.

Remember, you must check with the program for the deadline for submitting the application and application fee amount for the program of interest.

Students who wish to apply for a graduate student award (e.g., fellowship, scholarship, assistantship) should contact their department before the application deadline for information, since deadlines are usually earlier for aid requests than for admission.

Readmission of Former Students

Students who were previously admitted to a Graduate Program but who did not complete that degree program and who have not been registered for more than one (1) year [i.e., three (3) terms] at CU Denver|Anschutz must reapply to the Program supplying updated information and academic credentials. The following requirements must be satisfied before being readmitted:

- clarify their status with the Graduate Program and Graduate School to determine their eligibility to return and pursue the same degree;
- submit an application and application fee to the Graduate Program for approval before enrollment levels are met or deadlines have passed for the term in which they expect to return to CU Denver|Anschutz; and
- meet any new admission requirements required of matriculants (i.e., background checks, immunizations, etc.)

However, the Program is under no obligation to readmit the student, and the student should consult with the Program Director before applying.

Changing Programs

Students who are currently enrolled in a Graduate Program and in good academic standing (i.e., GPA of 3.00 or better) and who want to change Programs or major departments must complete the appropriate application forms and be accepted by the new Program into which they are transferring. The Graduate School maintains a current form for such transfers.

Transferring

Students transferring from another University of Colorado campus to the Denver Campus must apply and be accepted by the program on this campus.

A student who has completed a master's program at CU Denver must resubmit an online graduate application for acceptance into the doctoral program.

Nondegree Students

A student who wishes to take graduate courses, but is not interested in earning a specific advanced degree, may apply as a nondegree student at:

https://soa.prod.cu.edu/degreeprog/applyDEGREEPROG_CUDEN/login.action

Contact the Office of Admissions at 303-315-2601 for further information. Nondegree students will be allowed to register only on the campus to which they have been admitted.

Nondegree students who later desire to pursue a graduate degree program at this university are encouraged to submit the complete online graduate application and supporting credentials as soon as possible. Credits earned as a nondegree student at the University of Colorado may, at the discretion of the department to which the student is admitted, be transferred in to a degree program. The maximum amount of credits allowed for transfer is 12 semester hours for the master's degree, 9 hours for the EdD program, and 30 hours for PhD degrees. These limit totals include both nondegree CU credits and those transferred from other institutions. Note that the GPA for courses taken as a nondegree student is calculated separately and is not incorporated in the official graduate GPA.

New Student Orientation

An orientation program for new students is held prior to the start of the fall semester. The orientation program provides information to new students about activities and services available on the Denver Campus. Information on the expectations, opportunities, registration process, parking and securing ID cards is also provided. Academic advising sessions are held before registration for the term. Students should contact their schools and colleges for additional information on advising, as well as special orientation sessions that may be scheduled for their programs.

Registration

On the regular registration days of each semester, students who have been admitted to a graduate program are required to follow appropriate registration procedures.

Students should register for classes the semester they are accepted as graduate students. If unable to attend that semester, they must notify the Graduate School in addition to the department that has accepted them. If this is not done, the student is automatically classified as inactive in the program and will need to reapply for admission to be able to register in a later semester.

Withdrawal

A graduate student who desires to withdraw from the university must apply to the dean of his/her school or college for permission to withdraw in good standing. *A student who discontinues attendance in a course without official withdrawal will be marked as having failed the course. After the 10th week of the class, the student must have the dean's signature to drop a course.*

Assistantships and Fellowships

Graduate Student Teaching Appointments

Many departments employ graduate students as part-time instructors or teaching assistants. The instructorship is reserved for those advanced graduate students already possessing appropriate degrees who may be independently responsible for the conduct of a section or course. Contact the department for further information.

Research Assistantships

Research activities provide opportunities for graduate students to obtain part-time work as research assistants in many departments. Such assistantships are funded by external grants obtained by faculty members. Contact the department for further information.

Additional information about registration and financial aid are available in separate sections of this catalog. For information about tuition and fees, please visit the Bursar's office [website](#).

Requirements for Advanced Degrees

Graduate Student Handbooks

The Graduate School provides a [Graduate School Handbook](#) that provides information and guidelines for graduate students at the University of Colorado Denver. Students are encouraged to be familiar with the policies outlined in this handbook and to use this handbook as a supplement to the personal feedback and guidance of faculty and staff in their departments.

Each graduate program is expected to provide students with a handbook—electronic, paper or both—indicating in some detail the curricular requirements, the expectations for satisfactory progress toward the degree completion, a timeline for the steps needed to meet these

expectations and other features unique to each program (such as the composition and formation of thesis, project and dissertation committees to guide and review the student's progress).

GPA Requirements and Quality of Graduate Work

To maintain satisfactory academic progress, advance to candidacy, and earn a certificate or graduate degree, students are required to maintain a minimum cumulative GPA of 3.00 for all graduate courses taken while in Graduate School, including any undergraduate (i.e., 4000 level) courses that may be required for the certificate program or graduate degree. Failure to maintain a 3.00 cumulative GPA will result in the student being placed on academic probation, as defined below. Courses in which grades below "B-" (2.7) are received may not be applied toward fulfillment of the requirements for any graduate (PhD or Master's) degree or certificate. Courses required by the degree-granting program or certificate in which the student receives a grade below B- must be retaken in order to achieve a B- or better grade. However, all grades received, including repeat courses, will appear on the student's transcript and will be included in the GPA calculation, but only one course enrollment may be counted towards graduation credits.

Credit by Transfer

A limited amount of high-quality resident graduate work done in a recognized graduate school elsewhere, or as a nondegree student at a University of Colorado campus, within the time allowed may be accepted, provided it is recommended by the department concerned and approved by the school or college dean. The maximum amount of work that may be transferred to this university is 12 semester hours for the master's degree, 9 hours for the EdD degree, and 30 hours for PhD degrees.

Courses taken as pass/fail or satisfactory/unsatisfactory will not be transferred. In addition, a grade of B- or above must be earned for a course to be transferred (individual programs may require a B or better for transfer credit and/or may require a B or better in the core classes of the particular discipline). Courses taken more than 7 years ago will need to be validated by the program director.

Graduate Appeals

Students who feel that they have been treated unfairly or outside of normal programmatic/departmental policies, may file a grievance with the Graduate School in accordance with grievance procedures outlined in the Student Handbook and posted online. If a School, College or Graduate Certificate or Program has established its own procedures to consider academic grievances, then the student must follow these procedures before they can submit a grievance to the Graduate School.

The designation academic grievance covers those problems related to academic issues. Such issues are distinguished from academic ethics cases and disciplinary cases for which separate procedures exist. Included within academic grievance cases are faculty, program, departmental, College or School (including Graduate School) policies affecting individual student prerogatives;

deviations from stated grading procedures (excluding individual grade challenges); unfair treatment and related issues. Policies and procedures governing the filing of an academic grievance are available in the [Graduate School Handbook](#).

Master's Degree

A student regularly admitted to a graduate program and later accepted as a candidate for the master degrees will be recommended for the degree only after certain requirements have been met.

The requirements stated below are minimum requirements; additional conditions may be set by the individual programs.

Students planning to graduate should ascertain current deadlines with the Graduate School. It is the graduate student's and the department's responsibility to see that all requirements and deadlines are met (e.g., changing of *I* and *IP* grades, notification of final examinations, etc.).

Departments or program committees may have deadlines that must be met by the graduate students in that specific department or program. It is the student's responsibility to ascertain and meet these requirements.

Minimum Requirements

The minimum requirement is 30 (semester) credits. While it is expected that most of this course work will be at the graduate (5000 and above) level, some graduate programs may allow particular undergraduate courses that are outside the discipline of their program to count toward the graduate degree. The proportion of undergraduate credit hours cannot exceed 20% of the course requirements of the graduate program and must be approved by the program director on a case-by-case basis. Undergraduate courses within the same discipline as the graduate program cannot be credited toward a graduate degree. If the program has a thesis option, the thesis must count for 3-6 credits. Independent study course work cannot exceed 20 percent (6 credits) of the 30 credits of course work required for the master's degree.

Master's Thesis Credit

Master's students who are enrolled in a program or track that requires a thesis, must also register for a minimum of three and a maximum of six hours of thesis work (some colleges and schools have a four-hour minimum for thesis tracks). Once all required semester hours of thesis work have been taken and all other course work is completed, students may register for Candidate for Degree (CAND 5940) for the semester in which they will defend their thesis. CAND 5940 carries no credit or grade, but students pay for one credit of resident tuition and minimal fees. It is anticipated that students will only enroll in this course for their final semester, but conditions may require enrolling for an additional term. Students registered for the Candidate for Degree course will be considered full-time for financial aid and enrollment verification purposes.

Thesis Requirements

Students who are enrolled in a program that requires a thesis must undertake their thesis work under the supervision of a thesis advisor and a faculty advisory committee. All research conducted for a master's degree must meet all appropriate regulatory standards specified by federal, state and local agencies regarding ethical research, animal use, human subjects, HIPAA and environmental safety. Each thesis is presented in partial fulfillment of the requirements for the master's degree and must meet the formatting criteria outlined in the Style and Policy Manual for Theses and Dissertations, available on the Graduate School webpage. The Graduate School performs format review and approval for all theses prior to electronic submission. Theses must be successfully defended before the student's committee before final submission.

A grade of In Progress (*IP*) will be assigned for thesis hours in all semesters until the final approved thesis is submitted to the Graduate School office. The thesis advisor determines the final thesis grade, and then submits Change of Record forms to the Graduate School office to change all *IP* grades to this final grade.

Admission to Candidacy

Students who wish to receive the master's degree must first become candidates. After completing or registering for all program-required course work, students must apply for graduation in their student portal and submit the signed Application for Admission to Candidacy to the Graduate School, by the graduation deadline posted for the semester in which they plan to graduate. The candidacy form is available online on the Graduate School website.

An approved form certifies that a student's work is satisfactory and that the program curriculum entered on the candidacy form meets all of the requirements of both the Graduate School as well as the particular graduate program, and that the student is a candidate for the degree. Students must have a minimum GPA of 3.00 to apply for candidacy.

Master's Degree Final Examination / Thesis Defense

All candidates for the master's degree are required to take a final comprehensive examination, present a cumulative professional portfolio or successfully defend a project or thesis. The final examination or defense is conducted by a committee consisting of at least three members of the graduate faculty. The student's final examination/defense committee and the examination schedule must be approved by the program director. The Request for Graduate Examination form must be submitted to the Graduate School, two weeks prior to the final exam/defense.

The examination or defense may be oral, written or both, or may consist of an evaluation of the cumulative professional portfolio. The chairperson and student must be present for the oral examination or defense, but a minority of members of the committee may participate by interactive video. If *one* faculty member cannot be present due to an *emergency*, the exam can proceed with the faculty who can attend, and the student will schedule a separate meeting with the absent faculty member at an alternate time. A majority of the examination committee members must vote for one of the following examination outcomes: Pass, Conditional Pass or

Fail. The original signed form is sent to the student's respective school or college, or to the Graduate School.

For a Conditional Pass, the examining committee will clearly define the requirements for the student to receive an unconditional passing grade; these requirements must be completed to the satisfaction of the examination committee within four months. Failure to satisfy these conditions will result in failure of the examination. A student who fails the examination is subject to immediate dismissal from the program on the recommendation of the graduate program and concurrence of the dean.

A student who fails the examination is subject to immediate dismissal from the Program on the recommendation of the Graduate Program Director and concurrence of the Dean. At the program's discretion, a student who fails the examination may be allowed to retake the exam once. The retake must be completed by the end of the next academic semester. Both the original signed examination form noting the failure as well as the signed new exam form for the retake must be filed with the Graduate School.

Time Limit

Master's students, whether enrolled full time or part time, have 7 years from the start of course work to complete all degree requirements, including the filing of the thesis with the Graduate School if the program requires a thesis. Students who fail to complete the degree in this seven-year period are subject to termination from the Graduate School upon the recommendation of the program director and concurrence of the Graduate School dean. For a student to continue beyond the time limit, the program director must petition the dean for an extension and include: 1) reasons why the program faculty believe the student should be allowed to continue in the program, and 2) an anticipated timeline for completion of the degree.

Doctor of Philosophy

The doctor of philosophy (PhD) degree is the highest academic degree conferred by the university. To state the requirements for the degree in terms of semester hours would be misleading, because the degree is not conferred merely upon the satisfactory completion of a course of study, however faithfully pursued.

Students who receive this degree must demonstrate that they are proficient in some broad subject of learning and that they can critically evaluate work in this field. Furthermore, they must have shown the ability to work independently in their chosen field and must have made an original contribution of significance to the advancement of knowledge. The technical requirements stated below are minimal requirements for all candidates for the degree; additional conditions set by the departments or schools will be found in the announcements. Any department may make additional regulations consistent with these general rules.

Minimum Course Dissertation Requirements

After completing all course work required by their doctoral program (a minimum of 30 hours), PhD students must register for at least 30 semester credit hours of dissertation (excluding students in the clinical health psychology doctoral program) to complete the requirements for the PhD degree. In the School of Education and Human Development, this includes 12 hours of doctoral research labs. PhD students must register for a minimum of 5 hours (and a maximum of 10 hours) of dissertation credit in each fall and spring semester following successful completion of the comprehensive examination. The EdD program requires a minimum of thirty-nine (39) credits of coursework and fifteen (15) dissertation credits.

Once a student has completed 30 dissertation credits, they need to enroll for only one credit in each fall and spring semester until a successful defense of their dissertation. If defending in the summer semester, they must also register for one dissertation credit.

Students who receive a stipend may have to continue to register for 5 credit hours to ensure their status as full-time students and ensure that retirement contributions are not withheld from their stipend. International students who register for only one credit in a semester, and who need to maintain their status on an F-1 or J-1 visa, may need to have their academic advisor complete a “Less Than Full-Time Enrollment” form.

A grade of In Progress (*IP*) will be assigned in all semesters until the final approved dissertation is submitted to the Graduate School office. The dissertation advisor determines the final dissertation grade, and then submits Change of Record forms to the Graduate School office to change all *IP* grades to this final grade.

Continuous Registration Requirements for Doctoral Candidates

A student (who is not on a leave of absence) who fails to register continuously in a given academic year (fall and spring semesters) for dissertation credit hours after passing the comprehensive examination may, at the discretion of the program director, be required to retake and pass the examination in order to regain status as a student in “good standing.”

Students who are unable to register for the minimum dissertation credits because of extenuating personal circumstances should apply for a leave of absence as explained below.

LEAVE OF ABSENCE

An approved leave of absence does not automatically extend the time limit for earning a degree, but may be cited as supporting documentation to request an extension if needed. Leaves of absence that exceed one year will not be approved unless the program director provides the dean with a compelling justification why such action should be approved. Students who are absent for longer than one year will be considered to have withdrawn from the program and will be required to reapply for admission and be considered with all other applicants.

OFF-CAMPUS STATUS FOR PhD STUDENTS

If, in the course of his/her dissertation research, a student plans to perform their dissertation work or study out-of-state and will not be utilizing campus facilities or faculty time, s/he may request off-campus status for purposes of registering for three units of thesis credit. Written requests must be received in the Graduate School office at least one week before the semester begins. The request must be co-signed by the program director prior to submission for approval to the Graduate School. Off-campus status cannot be extended to the (last) term in which the final examination is to be taken (during which the student must register for at least five hours of dissertation research), unless the student has already registered for 30 dissertation credits.

Doctoral Examinations

Each PhD program will require at least comprehensive and final examinations. Notice of all examinations must be filed with the dean of the Graduate School at least two weeks prior to administration.

PRELIMINARY EXAMINATION

Each program is responsible for ensuring that students are qualified for doctoral study by successfully passing a preliminary examination. Graduate programs that require students to have a master's degree before they enter their PhD program may exempt the student from taking a preliminary exam. The preliminary exam must occur within three semesters of completing the required courses as defined by the particular graduate program. The content and format of the preliminary examination are determined by the individual graduate program. The results (Pass/Fail) of the preliminary examination must be reported to the Graduate School. A student who fails the examination is subject to immediate dismissal from the Graduate School upon the recommendation of the program and concurrence of the dean; however, the preliminary exam may be retaken once at the program's discretion.

COMPREHENSIVE EXAMINATION

After completing or registering for all required program course work, and concurrent with applying for admission to candidacy for the PhD, students must take a comprehensive examination in their respective discipline. This exam will test a student's mastery of a broad field of knowledge, not merely the formal course work that s/he has completed. The oral part of the comprehensive exam is open to all members of the graduate faculty. This examination must be completed no later than the end of the third year for full-time students (fourth year for students enrolled in the PhD programs in applied mathematics and computer science and information systems). Individual programs may establish an earlier deadline.

The student's comprehensive examination committee and the examination schedule must be approved by the program director. The Request for Graduate Examination form must be submitted to the Graduate School at least two weeks before the exam. The examination committee consists of a minimum of three graduate faculty members; the chair of the committee must be a member of the degree-granting program. The student's dissertation advisor, if already

identified, may *not* chair the examination committee. All members of the committee must be present for the examination, although a minority of members, but not the chairperson or the student, may participate by interactive video. If *one* faculty member cannot be present due to an *emergency*, the exam may proceed with the faculty who can attend, and the student will schedule a separate meeting with the absent faculty member at an alternate time. The student must receive votes from the majority of the examination committee for one of the following outcomes: Pass, Conditional Pass or Fail. The examination form must be signed by the committee and returned to the Graduate School office.

If a student receives a Conditional Pass, the examining committee will clearly define the requirements for the student to receive an unconditional passing grade, and these requirements must be completed to the satisfaction of the examination committee within four months. The committee chair is responsible for monitoring the conditions and reporting their outcome to the Graduate School. Failure to satisfy these conditions will result in failure of the examination.

A student who fails the comprehensive examination is subject to immediate dismissal from the Graduate School upon the recommendation of the program and concurrence of the dean; however, the exam may be retaken once at the program's discretion. The retake will be in the form designated by the committee and must be completed within twelve months. The original examination form noting the failure is signed by the committee and returned to the Graduate School office. New examination forms will be generated when the examination is rescheduled. Students will be required to meet registration requirements and be registered during the term in which the repeated exam is taken.

FINAL EXAMINATION/DEFENSE

After the dissertation has been completed, a final examination on the dissertation and related topics is conducted in two parts, an oral presentation of the dissertation research that is open to the public, and a closed examination conducted by the examining committee.

The program director will approve the student's final examination/defense committee and the examination schedule. The Request for Graduate Examination and PhD Announcement forms must be submitted to the Graduate School at least two weeks before the exam. Announcements of the examination are also posted and sent by the programs to appropriate faculty members. The Graduate School office will send the final examination signature form to the program office to be placed in the student's file for use at the exam.

The dissertation defense committee consists of a minimum of four graduate faculty members. The chair of the committee must be a member of the degree-granting program. The student's dissertation advisor may not chair the examination committee. The student must submit finalized draft copies of the thesis to the defense committee at least two weeks before the examination date; some programs may require an earlier deadline.

All members of the committee must be present for the examination although a minority of members, but not the chairperson or the student, may participate by interactive video. If *one* faculty member cannot be present due to an *emergency*, the exam may proceed with the faculty

who can attend, and the student will schedule a separate meeting with the absent faculty member at an alternate time. The examination form must be signed by the committee and returned to the Graduate School office. The student must receive votes from a strict majority of the examination committee for one of the following outcomes: Pass, Conditional Pass or Fail.

If a student receives a Conditional Pass, the examining committee will clearly define the requirements for the student to receive an unconditional passing grade, and these requirements must be completed to the satisfaction of the examination committee within 60 days of the defense. Under extenuating circumstances, the graduate program director may petition the Graduate School for additional time. If a student fails the examination, s/he may not continue in the program.

Dissertation Requirements

A dissertation based upon original investigation and showing mature scholarship and critical judgment, as well as familiarity with the tools and methods of research, must be written on a subject approved by the student's dissertation advisor and the dissertation advisory committee. All research conducted for the PhD degree must meet all regulatory standards specified by federal, state and local agencies regarding ethical research, animal use, human subjects, HIPAA and environmental safety.

After selecting a dissertation advisor, the student, in collaboration with his or her dissertation advisor, will choose a Dissertation Advisory Committee, subject to approval of the graduate Program Director. Although it is recommended that the Dissertation Advisory Committee be the same as the Dissertation Examination Committee, the two committees need not be identical. Although the student's dissertation advisor may not chair the Comprehensive or Dissertation Examination Committees, Programs are given the flexibility to permit, or prohibit, the student's advisor to serve as Chair of the Dissertation Advisory Committee. The Dissertation Advisory Committee will serve an advisory function to the student and dissertation advisor and will also monitor the student's progress towards completing the dissertation. The Dissertation Advisory Committee will determine when the student has made sufficient progress to begin writing his or her dissertation. All PhD students who have advanced to candidacy must meet with their Dissertation Advisory Committee at least once every year, although some Programs may require – and the Graduate School encourages – a greater frequency of meetings. It is the student's responsibility to identify the best available time and schedule the meeting. The Dissertation Advisory Committee shall evaluate the student's progress to ensure that s/he has made satisfactory progress since the previous meeting. The Committee Chair will complete the Dissertation Advisory Committee meeting form summarizing the student's progress, or lack thereof, and send copies to the student, the primary mentor if not the Chair, the Program Director and the Graduate Dean. In case of non-satisfactory performance, steps to be taken to rectify the situation should be suggested in the report. If a student fails to meet with their Dissertation Advisory Committee within the previous 12 months, the Graduate School will notify the student and dissertation advisor that the committee must meet within the next four (4) weeks. Students who fail to have a Dissertation Advisory Committee meeting by the end of this four (4) week

probationary period will not be permitted to register for subsequent semesters. Once the student is in compliance with this rule, s/he will be permitted to register.

The student's dissertation must meet the formatting criteria outlined in the Style and Policy Manual for Theses and Dissertations, available on the Graduate School webpage. The Graduate School performs format review and approval for all dissertations prior to electronic submission. The formally approved dissertation must be submitted electronically, with the appropriate supporting documentation, within 60 days of the successful dissertation defense. Dissertation fees are paid upon submission online.

Time Limit

Doctoral students, whether enrolled full time or part time, must complete all degree requirements within eight years of matriculation. Students who fail to complete the degree in this eight-year period are subject to termination from the Graduate School upon the recommendation of the program director and concurrence of the Graduate School dean. For a student to continue beyond the time limit, the program director must petition the dean for an extension and include: 1) reasons why the program faculty believes the student should be allowed to continue in the program and 2) an anticipated timeline for completion of the degree. Approved leaves of absence do not automatically extend the time limits for earning a degree, but they may be used as a reason to request an extension if needed.

Graduate Faculty

The graduate programs at the Denver Campus Graduate School are delivered by faculty who are especially qualified by education and experience for graduate teaching and scholarship.

The university and college/school qualifications are published in the "Graduate Faculty" section of the [Graduate School Policies and Procedures](#). These rules distinguish between regular faculty, who are typically full-time members of the CU Denver faculty, and special faculty who may not be full-time, but who have special skills that enhance a college/school's graduate course offerings. Faculty who meet these qualifications are admitted to membership in the graduate faculty of CU Denver. These are the only faculty members permitted to teach graduate courses or to serve on thesis, dissertation or graduate student committees at either campus of CU Denver.

Information for International Students

Click on any of the following links for information:

- [International Admissions](#)
 - [Expenses](#)

The University of Colorado Denver provides a variety of international programs and educational opportunities and services for international and domestic students, scholars, faculty, staff and the greater Denver community. The goals of the Office of International Affairs are to raise international awareness on the campus, to provide opportunities for students to gain global competency needed in today's interdependent world and to create a campus community that is welcoming to international students and scholars.

[CU Denver Quick Facts for International Students](#)

International Admissions

Director: George F. Kacenga

Telephone: +1-303-315-2382

Fax: +1-303-315-2389

Website: international.ucdenver.edu/admissions

The Department of International Admissions at the University of Colorado Denver assists all international students with the international application process. The analysis of foreign academic credentials and the evaluation of international grading scales are conducted internally. At the request of academic departments, International Admissions also evaluates course work completed at foreign institutions by domestic applicants.

International Admissions representatives recruit overseas to attract qualified international students to CU Denver. The department also advises staff and faculty traveling overseas on possible networking with prospective international students, visiting Fulbright offices and foreign universities with CU Denver brochures and information.

Please be advised that all the documents submitted along with the application become the property of the university and will NOT be returned to the applicant.

International Admissions Application Deadlines

Undergraduate

<i>Term</i>	<i>Preferred Deadline</i>	<i>Final Deadline</i>
Summer	January 15	March 15
Fall	March 15	May 15
Spring	September 15	October 15

Graduate

Students interested in applying for a master's or doctoral program should visit the Graduate section of internationaladmissions.ucdenver.edu for more information. Application requirements will vary by program. Please contact the academic department for full details.

English Language Requirement

Students who complete the [ESL Academy](#) at the University of Colorado Denver are not required to submit results from a standardized test of English language proficiency. Both Test of English as a Foreign Language (TOEFL) scores and the International English Language Testing System (IELTS) scores are accepted at CU Denver as proof of English language proficiency.

The CU Denver institutional code for TOEFL is 4875. Test information and registration materials for TOEFL may be obtained from the Ministry of Education, American Culture Center or educational institutions in the applicant's country. Information may also be obtained directly from:

Educational Testing Services
P.O. Box 6151
Princeton, NJ 08541-6151 USA
+1-877-863-3546
Website: www.toefl.org
E-mail: toefl@ets.org

To receive test information and registration materials for IELTS please visit www.ielts.org.

Live-In Residence Requirement

The CU Denver requires that all first-time international undergraduate students live in the Campus Village at Auraria apartments. Additional information about the facilities, policies and programming at Campus Village are available in the [Campus Life](#) section of this catalog.

Exemptions to the campus residency policy will be evaluated and made on a case-by-case basis. Exemption forms are available through the Office of Student Life, Tivoli room 303, or [online](#). It is not mandatory for international graduate students to live on campus. For further information, please contact the Office of Student Life at 303-556-3399 or at housing@ucdenver.edu

On-Campus Employment

F-1 and J-1 students who maintain a minimum GPA, are enrolled full-time, and are otherwise in legal immigration status may work on-campus up to 20 hours per week during normal enrollment periods and more than 20 hours per week during official school breaks (provided they are eligible and intend to enroll the following semester). F-1 students do not require any special authorization prior to commencing employment. J-1 students, however, must receive written authorization from a responsible officer/alternate responsible officer in International Student and Scholar Services prior to commencing on-campus employment.

Student Life

Office: Tivoli Student Union, 303

Telephone: 303-556-3399

Website: www.ucdenver.edu/life/services/studentlife/resources/Pages/Tivoli-Student-Union.aspx

It is the mission of the Office of Student Life to complement the academic program of studies at CU Denver and enhance the overall educational experience of students through the development of, exposure to and participation in social, cultural, intellectual, recreational, leadership and governance programs. The Office of Student Life is the advising, coordinating, resource and general information center for student organizations, student government, student programs and the academic honor societies. The office is responsible for the administration of the student fee budget and monitors all student fee expenditures to assure compliance with CU Denver and state of Colorado regulations and procedures. The director of student life represents the assistant vice chancellor for university life on selected CU Denver, tri-institutional and Auraria committees and maintains effective lines of communication with Metropolitan State College of Denver, Community College of Denver and Auraria Higher Education Center.

Health Insurance

Office: Tivoli Student Union, 303

Telephone: 303-556-6273

All F-1 and J-1 students enrolled at the Denver Campus are required to have health insurance. Students are automatically enrolled in the policy when they register for classes. J-2 dependents are encouraged to enroll in the policy but are eligible to submit comparable insurance coverage with another company in order to meet the Department of State insurance requirement. The insurance office welcomes F-2 dependents as well as other international students in other visa categories to enroll in the policy because the cost of health care in the USA is expensive. For further information about the mandatory policy or information about the waiver process, please contact the Student Health Insurance Office at 303-556-6273.

Expenses

The estimated tuition and living expenses for international students, which include room, board, books and insurance, can be generated using the financial sponsorship calculator at:

www.ucdenver.edu/academics/InternationalPrograms/OIA/ISSS/InternationalStudents/calculator/Pages/default.aspx.

Health Professions

Click on the following to go right to that information:

- [Graduate Health Profession Programs, Denver Campus](#)

- [Health Profession Programs, Anschutz Medical Campus](#)

Unlike most chapters in this catalog that focus on all programs for a particular school, this chapter provides information about programs within the schools and colleges that prepare students for a career in the health professions. Three schools on the Denver Campus offer health-related graduate programs. Denver Campus students may choose to stay and complete a master's or PhD degree on this campus or apply to programs on the Anschutz Medical Campus. The new state-of-the-art clinical and research facilities on the Anschutz Medical Campus offer students unparalleled training in the health professions. Admission to these programs is very selective, and admission to the Denver Campus does not assure admission to Anschutz Medical Campus programs. All programs on the Anschutz Medical Campus require incoming students to have either a bachelor's degree or minimum of 60 semester hours of undergraduate work completed before applying.

Graduate Programs on the Denver Campus

Business School

Director: Errol L. Biggs

Telephone: 303-556-5845

E-mail: Errol.Biggs@ucdenver.edu

Website: ucdenver.edu/ACADEMICS/COLLEGES/BUSINESS/DEGREES/

The Business School offers three degree options for those interested in health administration—MBA, MS and an executive MBA. These three degree options are outlined in the [Business School](#) chapter of this catalog.

College of Engineering and Applied Science

Contact: Department of Civil Engineering

Telephone: 303-556-2871

E-mail: MEngGIS@ucdenver.edu

Website: <http://www.ucdenver.edu/academics/colleges/Engineering/Programs/Civil-Engineering/DegreePrograms/SpecialtyAreas/Pages/GeographicInformationSystems.aspx>

There are numerous ways in which geographic information systems (GIS) are used throughout health care and public health, including environmental health and epidemiology, disease surveillance and health services research. The College of Engineering and Applied Science offers a master of engineering degree with a GIS option, which emphasizes quantitative methods in the development and application of GIS technologies to a spectrum of discipline-specific settings having significant spatial dimensions.

College of Liberal Arts and Sciences

Department of Anthropology

Graduate Director: Christopher Beekman
Telephone: 303-556-6040
Fax: 303-556-8501
E-mail: Christopher.Beekman@ucdenver.edu
Website: clas.ucdenver.edu/anthropology/

Students may earn an MA with a research concentration in medical anthropology or pursue an integrated MA/PhD in health and behavioral sciences. Details of these programs are included in the [Department of Anthropology](#) section in the [College of Liberal Arts and Sciences chapter](#) of this catalog.

Health and Behavioral Sciences

Program Director: Richard Miech
Telephone: 303-556-8422
E-mail: Richard.Miech@ucdenver.edu
Website: clas.ucdenver.edu/hbsc/

The interdisciplinary PhD program in health and behavioral sciences provides an overarching framework integrating social and behavioral science perspectives on health and health care, while allowing the student to select and fully develop a particular research interest and professional career. This program has become a leader regionally in the application of GIS to health-related research.

Depending upon a student's chosen area of concentration, the successful graduate will gain expert knowledge of:

- research design and methods
- the determinants of health and disease
- the structure and organization of health care systems
- behavioral choices and how to use them to enhance wellness
- the contribution of individual, social and cultural factors to health behavior
- how guided change in health care systems may enhance quality, efficacy and access

The significance of these skills in addressing our current health care crisis will insure that graduates will be in demand in a number of employment sectors, ranging from community and public health organizations to nonprofit research organizations and private health care settings.

Programs on the Anschutz Medical Campus

Information about Anschutz Medical Campus programs are in this chapter is for reference only. Contact individual schools and program directors for details.

Graduate School

Contact: Office of the Dean
Telephone: 303-724-2915
Website: www.ucdenver.edu/graduateschool

Degree Programs: Master of science programs in: biostatistics; clinical science; epidemiology; genetic counseling; health services research, policy and administration; modern human anatomy; and nursing—nurse midwifery; nurse practitioner (adult-gerontology, family, family psychiatric mental health, pediatric, women’s health care); adult-gerontology clinical nurse specialist; i-LEAD nursing leadership and health care systems; health care informatics; and, pediatric nursing leadership and special needs.

Doctor of philosophy in: biomedical sciences program; biostatistics; cancer biology; cell biology, stem cells and development; clinical science; computational bioscience; epidemiology; health services research; human medical genetics; immunology; microbiology; molecular biology; neuroscience; nursing; pharmaceutical sciences; pharmacology; physiology; rehabilitation science; reproductive sciences; structural biology and biochemistry; and toxicology.

At the University of Colorado Anschutz Medical Campus, Graduate School students learn to push the frontiers of human health and disease in more than a dozen basic science, clinical and nursing disciplines. In conjunction with the CU School of Medicine, the Graduate School offers a joint MD/PhD in the medical scientist training program which develops investigators with a broadly-based knowledge of both basic and clinical biomedical sciences. The school’s personal mentor-student emphasis provides a distinctive learning experience.

School of Dental Medicine

Contact: Dental Admissions, Student Life and Inclusion
Telephone: 303-724-7122
Website: www.ucdenver.edu/dentalmedicine

Degree Programs: Doctorate of Dental Surgery, International Student Program, Orthodontics, Periodontics, General Practice Residency programs

The University of Colorado School of Dental Medicine trains over 400 students annually. The four-year Doctor of Dental Surgery (DDS) program enrolls 80 new dental students each year. In addition to classroom curriculum and on-campus clinic requirements, DDS students provide dental care to underserved populations throughout the state of Colorado. Consistent with our mission to increase access to education and care, the school’s International Student Program, begun in 2005, offers qualified graduates of foreign dental programs the opportunity to earn a Doctor of Dental Surgery degree. The school also offers post-doctoral orthodontics, periodontics, and general practice residency programs. Additionally, the school pioneers research in oral cancer, salivary gland disease, neurobiology and pain control.

School of Medicine

Contact: Office of Admissions
Telephone: 303-724-8025
Website: <http://medschool.ucdenver.edu>

Degree Program: Doctor of medicine

The University of Colorado School of Medicine is nationally and internationally respected for its education, research, patient care and community service programs. Faculty members teach and care for patients at University of Colorado Hospital, Children's Hospital Colorado, Denver Health, National Jewish Health and the Denver V.A. Medical Center, working side by side with nearly 1,000 graduate doctors training at the university. In addition to providing exceptional education and patient care, the medical school attracts gifted faculty and students. The school's physicians and research scientists have pioneered medical breakthroughs that have become national and world models.

Child Health Associate/Physician Assistant

Contact: Office of Admissions
Telephone: 303-724-7963
E-mail: chapa-info@ucdenver.edu
Website: www.ucdenver.edu/academics/colleges/medschool/education/degree_programs/PAProgram/Pages/Home.aspx

Degree Program: Master of Physician Assistant Studies (MPAS)

Ranked among top programs in the nation, the Child Health Associate/Physician Assistant Program offers a three-year, post-baccalaureate professional program awarding a master's in Physician Assistant Studies. The program has been a national leader in innovative curriculum development in the areas of behavioral health, evidence-based practice, family-centered care, oral health and interprofessional practice. Graduates excel in patient care across the life span, receiving extensive didactic and clinical training in primary care adult medicine as well as the care of infants, children and adolescents. They are employed in a variety of settings including managed care organizations, community health centers, physician's offices, public health agencies, hospitals and emergency departments across rural and inner city health care delivery systems.

Physical Therapy

Contact: Physical Therapy Program
Telephone: 303-724-9144
E-Mail: PT.Admissions@ucdenver.edu
Website: www.medschool.ucdenver.edu/pt

Degree Program: Doctor of Physical Therapy (DPT)

The University of Colorado Physical Therapy Program offers a three-year, post-baccalaureate professional education program of didactic learning and extensive clinical experiences that

culminates in a Doctor of Physical Therapy degree (DPT). Graduates are prepared to excel in the physical therapy profession and adapt to the ever-evolving health care environment. As part of the School of Medicine, our entry-level program has been continuously accredited for more than 65 years. Foundational elements of our curriculum include: patient-centered care; clinical reasoning and evidence based practice; movement for participation; teamwork and collaboration; and, quality improvement and safety.

Graduate Medical Education (Residency and Fellowship Programs)

Telephone: 303-724-6031

Website: www.ucdenver.edu/ACADEMICS/COLLEGES/MEDICALSCHOOL/EDUCATION/GRADUATEMEDICALEDUCATION/Pages/graduatemedicaleducation.aspx

The University of Colorado School of Medicine and affiliated hospitals provide graduate medical education (training of residents and fellows) in more than 60 specialties and subspecialties. The Graduate Medical Education Manual (website: www.ucdenver.edu/academics/colleges/medicalschooleducation/graduatemedicaleducation/GMEDocuments/Documents/GME%20Manual.pdf) provides details about these opportunities on the Anschutz Medical Campus.

Continuing Medical Education

Telephone: 303-724-3552

Website: ucdenver.edu/academics/colleges/medicalschooleducation/continuingmedicaleducation

The School of Medicine provides continuing education opportunities for physicians and other health care professionals worldwide. The mission is to enhance the knowledge, skills and performance of physicians and other health care professionals and, in the process, to improve the health care of the populations they serve.

College of Nursing

Contact: Office of Student Affairs and Diversity

Telephone: 303-724-1812

Website: www.nursing.ucdenver.edu

Degree Programs: BS in nursing, MS in nursing, doctor of nursing practice (DNP), dual doctor of nursing practice/master's in public health (DNP/MPH), PhD in nursing

Founded in 1898, the CU College of Nursing has a history of innovation that continues today. The nurse practitioner movement, school nurse program, and caring science theory, all began at CU. The innovation continues today with one of the nation's first interdisciplinary DNP/MPH programs with the Colorado School of Public Health and two new acute care nurse practitioner post-master's certificate programs beginning in 2014. In 2013, the overall master's program was ranked 15 by U.S. News & World Report. In addition, three of its specialties were also highly

ranked: 5th in Nurse Practitioner-Pediatric Nursing, 13th in Nursing-Midwifery and 16th in Nurse Practitioner-Family Nursing. In 2014, U.S. News & World Report ranked the college's online graduate nursing programs in leadership and informatics 10th in the nation.

Skaggs School of Pharmacy and Pharmaceutical Sciences

Contact: Office of Student Services
Director: Beverly Brunson
PharmD Telephone: 303-724-2882
PhD Telephone: 303-724-7263
Fax: 303-724-7330
Website: www.ucdenver.edu/pharmacy

Degree Programs: Doctor of pharmacy (PharmD), PhD in toxicology, PhD in pharmaceutical sciences

As drug products become more potent, more complex and more numerous, the need for pharmacists to assume a more active role in patient and medication safety has increased remarkably. The University of Colorado School of Pharmacy is one of the nation's top-ranked pharmacy schools and is committed to pharmaceutical education, research and patient care. The school's more than 900 professional and graduate students learn about the chemical and physical properties of medicinal agents, the biology of disease and the actions of drugs on the human body, while pursuing either a doctor of pharmacy or PhD degree. The school also provides continuing education programs to pharmacists and other health practitioners throughout the state.

Colorado School of Public Health

Contact: Colorado School of Public Health
Telephone: 303-724-4613
Website: <http://publichealth.ucdenver.edu>

Degree Programs: Master of Public Health (MPH) professional degree; Doctor of Public Health (DrPH) professional degree; Master of Science (MS) in Biostatistics or Epidemiology; Doctor of Philosophy (PhD) in Biostatistics, Epidemiology, or Health Services Research; Certificate in Global Public Health or Public Health Sciences.

Additional and Specialty Programs: Joint Degrees (DVM/MPH, MD/MPH, MPA/MPH, or MURP/MPH); Residency Programs in Occupational & Environmental Medicine or Preventive Medicine.

The CEPH accredited Colorado School of Public Health is the first and only school of public health in the Rocky Mountain region. Collaboratively formed by the University of Colorado, Colorado State University and University of Northern Colorado, the school supports students, practitioners and communities, with access to educational programs, innovative research and community services.

The school offers professional, graduate, residency and certificate programs. Each program provides the training that students need to succeed in general and specialized public health careers. Programs of study focus on a variety of professional interests including applied biostatistics; animals, people and the environment; biostatistics; community and behavioral health; community health education; environmental and occupational health; epidemiology; global health and health disparities; health and exercise science; health communication; health services research; health systems, management and policy; occupational medicine; preventive medicine; and public health nutrition. Students entering the public health programs have access to the collective resources and expertise offered by the collaborating universities and multiple community and government partnerships.

Tuition, Fees and Financial Aid

Click on any of the following links for information:

- [Tuition and Fees](#)
- [Financial Aid](#)
- [Find it Here](#)

At CU Denver, we have a longstanding belief that finances should never stand in the way of motivated, talented individuals who want to better themselves and make a positive impact on the world around them. Through a tradition providing strong financial assistance and aid programs, we enforce this belief every day.

Tuition and Fees

Bursar: Evan Icolari

Office: North Classroom, 1001

Telephone: 303-556-2710 303-556-2710

E-mail: bursar@ucdenver.edu

Website: www.ucdenver.edu/bursar/

Student Service Center: North Classroom, 1003

Manager: Debra Blanton

Telephone: 303-556-3959 303-556-3959

All tuition and fee rates are established by the Board of Regents, the governing body of the University of Colorado, in accordance with legislation enacted annually by the Colorado General Assembly. The regents set tuition rates and fees at a budget retreat in June for the coming fall, spring and summer terms, but reserve the right to change rates at any time. Rates for the current year are available online to assist prospective students in anticipating costs. Please refer to the Web site at www.ucdenver.edu/bursar in July for new rates.

Registration Advance Payment

All University of Colorado Denver students taking classes on the Denver Campus are required to make a registration advance payment of \$200.00 before they may register for classes each semester. The ONLY two exceptions to this requirement are:

- if the Financial Aid Office has received a student's FAFSA data, or
- if the student has not been admitted to an academic program at CU Denver and is only taking Extended Studies courses.

If a student withdraws from all of their classes before the first day of class, the \$200 registration advance payment will be refunded (after the census date). If a student withdraws from all of their classes on or after the first day of class, the \$200 registration advance payment will be forfeited to the University. If a student does not withdraw from all of their classes, the \$200 registration advance payment will be treated as a deposit toward the student's tuition and fees.

For more information, please visit www.ucdenver.edu/bursar.

Drop Charge

Beginning the second Tuesday of the fall and spring terms until census date (the sixth day of summer term), a \$100 drop transaction charge will be assessed each time a student drops a course. This includes student initiated drops done in order to change sections within a course. Section changes done for an administrative purpose through the deans' offices will be exempted from drop charges. If a student withdraws (therefore dropping all classes), a drop charge will be assessed for each course.

For more information, please visit www.ucdenver.edu/bursar.

Special tuition rates are available for nondegree graduate students taking undergraduate courses only. Contact the Office of the Registrar at 303-315-2600 303-315-2600 to request this special tuition rate.

Payment of Tuition and Fees

All tuition and fees (except the application fee) are due on the day indicated on your billing statement. Students may choose the payment plan that is available on the Denver Campus. Specific information on the deferred payment plan is included on the [Web site](#), published before each semester.

Students who register for courses are liable for payment of tuition and fees if they withdraw from school after census date. Refund policies for students who withdraw from the university both before and after census date are included in the [academic calendar](#). A student with financial obligations to the university will not be permitted to register for any subsequent term, to graduate, to be issued transcripts or to be listed among those receiving a degree or special certificate. The only exception to this regulation involves loans and other types of indebtedness

that are due after graduation. Personal checks are accepted for any university obligation. Any student who pays with a check that is not acceptable to the bank will be assessed an additional service charge. Students may also pay tuition and fees by credit card at the Student Service Center, or through the [UCDAccess portal](#) by credit card or an electronic withdrawal directly from a checking or savings account.

The University of Colorado Denver is committed to providing students and their families a range of options for paying their educational expenses. The credit card payment method has become prohibitively expensive due to the fees charged by credit card companies to CU Denver for credit card transaction processing. This expense has been covered by University tuition revenues, and reduces the tuition dollars available for academic programs and services for all students. Therefore, beginning in August 1st2013, a service fee of 2.75% of the payment amount will be assessed for all credit and debit card transactions.

Click here for more information on [Credit Card Fees](#).

Students who register in a nondegree status, and who later apply and are admitted to a degree status for that term, are responsible for the difference in tuition between the nondegree program and their applicable degree program and will be billed accordingly.

Undergraduate tuition for resident students is based on the total number of completed semester hours. The rate increases once a student has completed 60 hours.

Direct Deposit

Direct deposit is the standard method of issuing student account refunds to CU Denver students with credit balances. Students are strongly encouraged to sign up for direct deposit well in advance of any anticipated student account refunds, and may do so online via the “Finances” section of the [UCDAccess portal](#).

Students who do not sign up for direct deposit will receive a paper refund check through the mail. Refunds will only be issued via direct deposit or through the mail. **Students are not allowed to pick up their refund check from the Bursar’s office.**

Tuition Appeals

Students are responsible for abiding by the published deadlines. Tuition is not refundable when students drop or withdraw from courses after the published deadlines. If circumstances beyond the student’s control have made the late drop or withdraw necessary, the student may file a tuition appeal.

Instructions and forms for submitting a tuition appeal are available on the registrar’s website, www.ucdenver.edu/registrar, or in the Office of the Registrar in the CU Building Annex. Completed tuition appeals packets must be submitted to the tuition appeals coordinator in the registrar’s office within three months following the end of the term being appealed.

Past Due Tuition and Fees

Past due student accounts are referred to the Office of Student Debt Management (SDM) for collection. If accounts are not paid in full, a 20 percent internal collection cost will be assessed on the unpaid balance. This is in addition to the 1.75 percent service charge per month that all past due accounts are subject to. If your account is referred to a third-party agency, you must pay any collection costs and attorney fees allowed by the Uniform Consumer Credit Code.

College Opportunity Fund (Vouchers)

An act of the Colorado state legislature in May 2004 established a new way for the state to provide state tax dollar support for higher education at the undergraduate level. The state is no longer appropriating monies to institutions for undergraduate education, but is providing direct funding to undergraduate students through the College Opportunity Fund (COF). This program is also known as “vouchers” or “stipends.” If an undergraduate in-state student applies for and authorizes use of the voucher, COF vouchers will be applied to the student’s university bill. For details, see www.CollegeinColorado.org.

Residency Classification for Tuition Purposes

Tuition classification is governed by Colorado statutes that apply to all state-funded institutions in Colorado. Institutions are bound by the provisions of this statute and are not free to make exceptions to the rules set forth.

Students are initially classified as in-state or out-of-state for tuition purposes at the time of application. The classification is based upon information furnished by the student and from other relevant sources. After the student’s status is determined, it remains unchanged in the absence of satisfactory evidence to the contrary.

Once a student is classified as a nonresident for tuition purposes, the student must petition for a change in classification. Petitions must be submitted **NO LATER THAN THE FIRST OFFICIAL DAY OF CLASSES** of the term for which the student wishes to be classified as a resident. It is preferred that petitions be received 30 days prior to the beginning of the term. Late petitions will not be considered until the next semester. Specific information may be obtained from the [Office of Admissions](#).

The final decision regarding tuition status rests with the university. Questions regarding residence (tuition) status should be referred only to the tuition classification officer. Opinions of other persons are not official or binding upon the university. Additional information is available in the brochure *Classification of Students for Tuition Purposes*, which may be obtained from the admissions office.

Basic Requirements

The statute provides that an in-state student is one who has been a legal domiciliary of Colorado for one year or more immediately preceding the beginning of the term for which the in-state

classification is being sought. Persons over 23 years of age or who are emancipated establish their own legal domicile. Those who are under 23 years of age and unemancipated assume the domicile of their parent or court-appointed legal guardian. An unemancipated minor's parent must, therefore, have a legal domicile in Colorado for one year or more before the minor may be classified as an in-state student for tuition purposes.

Establishing Domicile

Domicile is established when one has a permanent place of habitation in Colorado and the intention of making Colorado one's true, fixed and permanent home and place of habitation. The tuition statute places the burden of establishing a Colorado domicile on the person seeking to establish the domicile. The question of intent is one of documentable fact and needs to be shown by substantial connections with the state sufficient to evidence such intent. Legal domicile in Colorado for tuition purposes begins the day after connections with Colorado are made sufficient to evidence one's intent. The most common ties with the state are (1) change of driver's license to Colorado, (2) change of automobile registration to Colorado, (3) Colorado voter registration, (4) permanent employment in Colorado and most important, (5) payment of state income taxes as a resident by one whose income is sufficient to be taxed. Caution: payment or filing of back taxes in no way serves to establish legal domicile retroactive to the time filed. In order to qualify for in-state tuition for a given term, the 12-month waiting period (which begins when the legal domicile is established) must be over by the first day of classes for the term in question. If one's 12-month waiting period expires during the semester, in-state tuition cannot be granted until the next semester.

Resident Tuition for Active Duty Military Personnel

The Colorado legislature approved resident tuition for active duty military personnel on permanent duty assignment in Colorado and for their dependents. **ELIGIBLE STUDENTS MUST BE CERTIFIED EACH TERM.** Students obtain a completed verification form from the base education officer and submit the form with their military ID to the admissions office after they have registered but before the end of the drop/add period. At the time the verification form is certified in the admissions office, the student's bill will be adjusted to reflect the resident tuition rate. Students who have been certified remain classified as nonresidents for tuition purposes and must petition to change their status once they establish permanent ties to Colorado.

Financial Aid

Director of Financial Aid: James Broscheit
Office: North Classroom, 1030

Telephone: 303-556-2886 303-556-2886
E-mail: financialaid@ucdenver.edu
Website: www.ucdenver.edu/finaid

Graduate Student Financial Aid Information

The financial aid office delivers more than \$185 million in financial aid awards to qualified students at the Denver Campus each year. Students will be considered for a package of need-based grant, work-study (part-time employment), and/or student loan funds. Awards are contingent upon fund availability.

Eligibility

Each student must qualify for financial aid as follows:

1. Be a U.S. citizen or eligible noncitizen.
2. Have a valid social security number (SSN).
3. Be classified as a degree-seeking student by the Denver Campus Office of Admissions (Teacher certification students are eligible to apply for financial aid and are considered undergraduate students according to federal guidelines).
4. Be enrolled at least half-time which is 3 credits hours for graduate students.
5. Meet financial aid Satisfactory Academic Progress (SAP) standards.
6. Not be in default on any student loan or owe a refund on any educational grant.
7. Male applicants must be registered with the Selective Service.
8. Must sign statement of educational purposes on the FAFSA application.

Applying for aid as a Graduate student

Each aid applicant must complete the FAFSA application and other required materials for submission to the financial aid office. Complete and valid FAFSA information must be received by the financial aid office before eligibility can be determined. The FAFSA is available at www.fafsa.gov. The FAFSA application is available each year on or after January 1 **AND** must be submitted each year for continued aid eligibility.

It is the student's responsibility to be sure ALL application materials are complete and submitted. Student's must regularly monitor their "TO DO LIST" on the student portal to confirm completion and to accept or decline awards for final processing and disbursement of aid. Applicable forms and complete details is available on the financial aid website at www.ucdenver.edu/finaid. All financial aid policies and procedures are subject to change due to revisions in federal and state laws regulations and applicable institutional policies.

Qualifying

Financial Need

Most financial aid awards are based on the concept of financial need. Financial need is calculated as cost of attendance (tuition, fees, books, living expenses) minus family contribution (student/spouse contribution).

The cost of attendance is the estimated total cost to attend CU Denver, including tuition and fees, room, board, books and supplies, transportation and personal expenses. The financial aid office determines standard budgets based upon average tuition and fees charged and other budget items

established by the Colorado Department of Higher Education (CDHE). Current cost-of-attendance figures are available on our website at www.ucdenver.edu/finaid.

The contributions from the student/spouse (if applicable) are calculated by a standardized formula that is required by federal law. The formula considers income, savings and other assets, family size, number of children in postsecondary school and other factors. Financial Aid is intended to supplement and not replace financial contributions from the student and spouse. Determining Dependency Status

The federal government provides specific guidelines that define dependency status for financial aid purposes. Dependency status is determined by a series of questions on the FAFSA that can be reviewed at www.fafsa.gov. Students classified as *dependent* are required to provide student **and** parent household and financial information when applying for financial aid. If a student is classified *independent*, then the student's parental information is not considered when the calculation of family contribution is made. Graduate students are considered "Independent for federal student aid purposes so parental information is not required.

Course Loads- Graduate programs

Federal Stafford Loan recipients must carry at least 3 credit hours per semester.

Notice for Graduate Students: The financial aid definition of half-time enrollment may differ from the academic definition of half-time enrollment based on degree programs. See a financial aid advisor for more information.

Satisfactory Academic Progress (SAP)

Students must make satisfactory academic progress (SAP) as defined by the U.S. Department of Education to continue to be eligible for financial aid. For more information, students should review the Financial Aid SAP Standards available on our [website](#) or in the financial aid office.

Appeals

Students may appeal all aid suspension decisions by submitting a SAP Appeal to the financial aid office in person, by mail or by fax. Appeals are reviewed in order received and timing of decision will be based on volume of appeals received. Notifications of the decision is generally mailed or emailed to the student. The decision of the appeals committee is final.

Refunds and Repayments

To comply with Federal financial aid laws and regulations, CU Denver is required to review and determine if students are eligible to keep the aid received if the student withdraw, received all F's or never begin classes. The federal government has defined criteria that outlines whether a recipient has only earned a portion of their financial aid, and the earned aid is directly proportional to the percentage of time the student attended classes. Aid that is unearned must be returned to the federal financial aid programs. This may result in a balance owed back the

institution. Unearned aid includes both the amount allocated to tuition and fees and the amount allocated to the student for other educational expenses. For a complete description of these requirements, request a copy of the financial aid repayment policy from the Financial Aid Office or obtain the information from the financial aid office website.

Reapply Each Year

Financial aid awards are not automatically renewed each year. Students must reapply each year. Application materials for the next academic year are available soon after January 1 at www.fafsa.gov.

Awards

Students are informed by e-mail notification of their financial aid eligibility after all application materials have been received in the financial aid office. If awarded, an e-mail notice is sent to the student advising them to review their award on the student portal. This information will include the types and amounts of aid awarded and the minimum number of semester hours required each term.

Grants, Loans and Work-Study (For Graduate students)

The following aid programs are funded by the federal government:

1. *Federal Teach Grant*-This Teach Grant program is available to specific students who intend to teach in a public or private service school that serves students from low-income families. Students can be considered for up to \$4000 per academic year, if eligible. More information can be found on the [Financial Aid Office website](#).
2. *Federal Direct Stafford Loan* - The **unsubsidized** Federal Direct Stafford Loan program **does not** require the student to document financial need, but a valid FAFSA application is required. Eligibility is calculated as the cost of attendance minus other financial aid awarded. *Interest is not paid by the federal government for the unsubsidized program, and the student may elect to pay the interest now or to allow the interest to be added to the total principal loan amount.*
3. *Federal Direct Graduate Plus Loan*- This program is unsubsidized, and interest payments become the responsibility of the borrower at the time of disbursement.
4. *Federal Perkins Loan*-This is a need-based loan program, with an fixed interest rate currently at 5 percent. No repayment of interest or principal is due until nine months after the student ceases to be enrolled at least half-time or graduates.
5. *Federal College Work-Study*-Work-study is a need-based program that allows students to work on a part-time basis (on campus, off campus or at nonprofit agencies) to help meet their educational costs.

The state of Colorado funds the following programs:

1. *Colorado Graduate Grant*-A need-based grant for resident graduate students.

2. *Colorado Teach Grant Program*-This scholarship to students in a approved teacher preparation program who excel in high-need content areas and who demonstrates an interest or commitment to teaching as a career.

DRUG CONVICTIONS AND FINANCIAL AID ELIGIBILITY

A student who has been convicted of any offense under any federal or state law involving the possession or sale of a controlled substance shall not be eligible to receive any grant, loan or work assistance if the conviction occurred during a period of enrollment for which the student was receiving aid.

If convicted of an offense involving:

The possession of a controlled substance: Ineligibility period is:

First offense 1 year (from date of conviction)
Second offense 2 years (from date of conviction)
Third offense Indefinite

The sale of a controlled substance: Ineligibility period is:

First offense 2 years (from date of conviction)
Second offense Indefinite

Scholarships

For a complete listing of the many scholarships offered at the Denver Campus, go to www.ucdenver.edu/scholarships. In addition, many Internet search programs are available to help students identify scholarships for which they may be eligible. One of the largest is www.FastWeb.com. You may also research www.finaid.org.

Other Sources

There are several other sources of funds for students. Employment opportunities are listed in the Student Employment Office and the Career Center. Graduate students should inquire about additional types of financial aid through their academic departments. American Indian students should request information about Bureau of Indian Affairs and tribal scholarships from their tribe.

Short-Term Loans

Short-term loans are available to enrolled students to cover unexpected financial needs. Loans are generally limited to \$500 and are due within 30 days. There is a \$10 per loan administrative charge. Restrictions may apply. Specific criteria applies. Please see the Financial Aid Office for eligibility details.

Find It Here

Not sure of the difference between the our various student service departments? Here's a quick guide to finding what you need.

Admissions

CU-Denver Building Annex, 200

303-556-2704 303-556-2704

www.ucdenver.edu/admissions

Application: pick up, drop off, application fee payment, admission status

Residency forms

Information about establishing domicile for tuition classification

General transfer credit information

Information about CU Denver

Scholarship guides

Talk to an admission counselor

Bursar

North Classroom, 1001

303-556-2710 303-556-2710

www.ucdenver.edu/bursar

Application fees payments by credit card

Audit Registration Card

College Opportunity Fund (vouchers)

Departmental deposit transactions

Payment of tuition and fees

Refunds

Student account reconciliation

Student Service Center-one-stop processing for bursar, financial aid, registration and admission functions

Third-party billing

Financial Aid

North Classroom, 1030

303-556-2886 303-556-2886

www.ucdenver.edu/finaid

Free Application for Federal Student Aid (FASFA) www.fafsa.gov

Grant, work-study and student loan information

Financial aid and special circumstances appeals

How to apply for financial aid (see the Admissions Office about scholarships)

Registrar

CU-Denver Building Annex, 100

303-315-2600 303-315-2600

www.ucdenver.edu/registrar

Class registration

Course descriptions

Diplomas

Enrollment verification

Grades and GPA

Schedule adjustment (drop/add) forms

Schedule Planner (online course schedule)

SMART (online registration system)

Transcripts

Tuition appeals

Student Debt Management

North Classroom, 1005

303-556-8365 303-556-8365

www.ucdenver.edu/admin/studentfinancialservices/debtmanagement

Past-due tuition collection

Student loan processing

Office of the Registrar

Click on any of the following links for information:

- Academic Calendar
- Registration
 - Definitions: Full-time vs. Part-time
 - Add/Drop Courses
 - Pass/Fail
 - Withdrawal from the university
- Academic Records
 - Grading System and Policies
 - Graduation
 - Notification of Rights, FERPA

CU Denver offers students a completely online system of planning their schedules and registering for classes. As a student, you are responsible for knowing the deadlines, rules, regulations, course loads, prerequisites and policies of the university, as well as those of the college or school in which you are enrolled, all of which is provided within this online catalog.

Office of the Registrar

Registrar: Ingrid Eschholz

Office: CU Denver Building Annex, 100

Telephone: 303-315-2600

E-mail: registrar@ucdenver.edu

Web site: www.ucdenver.edu/Registrar

Academic Calendar*

Click [here](#) to see the current Academic Calendar.

*The university reserves the right to alter the academic calendar at any time. Consult the website at www.ucdenver.edu/registrar for application deadline dates, deadlines for changing programs and registration dates and procedures.

Registration

Students should review the sections of this catalog that describe in detail the academic programs available at the Denver Campus.

New and transfer undeclared undergraduate students, as well as prebusiness and preengineering students, should contact the Academic Advising Center at 303-352-3520 to arrange for an advising appointment prior to registration. Other freshmen and transfer students should contact their school or college to arrange for an advising appointment prior to registration.

The registrar's office will send an e-mail message to the student's university-assigned e-mail address, inviting the student to register, including registration information and a registration time assignment. Registration is by time assignment only. Students may register via the web on or after their assigned time.

Web Registration and Student Information

Denver Campus students can register and obtain information regarding their academic and financial records by logging into their UCD Access portal.

Online registration allows the student to check the availability of specific courses prior to their registration time and to search for available courses by department, course level or meeting time. If registration in a course is denied, the reason will be specified in UCD Access.

Student information available online currently includes mailing address verification (or change), admission application status, financial aid information, schedule by semester, grades by semester, unofficial transcript, account balance, online payment and degree audit (for some

programs). For security reasons, none of the student information screens will display a student's name or student number.

Additional information regarding programs, faculty, courses and policies are available through the home page: www.ucdenver.edu.

Definition of Full-Time and Part-Time Status

Individual students receiving financial aid may be required to complete hours in addition to those listed below. The exact requirements for financial aid will be listed in the student's financial aid award letter.

Undergraduates and nondegree graduate students:

Full-time	12 or more semester hours
Part-time	6 or more semester hours

Graduate degree students:

Full-time:

- 5 or more semester hours
- 0 semester hours as candidate for degree
- 1 or more semester hours of thesis (not master's reports or thesis preparation)

Half-time:

- 3 or more semester hours

Notes

Enrollment verification including full-time/part-time attendance can be certified beginning the first day of class.

Hours for calculating full-time/part-time attendance do not include interinstitutional hours, nor do they include hours on another CU campus, unless the student is enrolled through concurrent registration.

Students receiving veteran benefits should contact the Veteran Student Services manager for the definition of full-time status for summer sessions. Contact information: 303-556-2745 or vaoffice@ucdenver.edu.

Individual exceptions to the minimum graduate course-load levels are considered for financial aid purposes by the financial aid committee. Students must file a written appeal with the Office of Financial Aid.

Add/Drop

Please review the current term's academic calendar for the most recent add/drop deadlines by visiting the registrar's website at www.ucdenver.edu/registrar.

Administrative Drop

An administrative drop is implemented by university officials in the registrar's office or the dean's office. A student may be administratively dropped from one or more classes or withdrawn from all classes for any of the following reasons:

- failure to meet certain preconditions, including but not limited to:
 - class cancellations
 - failure to meet course prerequisites
- whenever the safety of the student, faculty member or other students in a course would be jeopardized
- academic suspension, including but not limited to failure to attain or maintain a required GPA
- disciplinary suspension for having been found to have violated the student code of conduct
- disruptive behavior determined by the chair and/or associate dean to be detrimental to the progress of the course and the education of other students

Auditing Courses

To qualify as an auditor for fall, spring or summer semester, a student must be 21 years of age or older or approved by the registrar. Auditors may not be registered for any other University of Colorado courses during the time they are auditing and are not eligible to audit courses if they are under suspension from the university or have outstanding financial obligations to the university. The registrar's office does not keep any record of courses audited; therefore, credit for these courses cannot be established. Auditors may attend as many courses as they wish (except those courses with laboratories or where special equipment is used), provided they have received permission from each instructor.

An auditor's card is issued after classes begin. This card should be presented to the instructor. Auditors, whether resident or nonresident, pay three semester hours of resident tuition for all audited courses during the fall or spring semester for class instruction and library privileges only. Auditors do not receive student parking privileges and are not eligible for other student services. For more information, contact the [Bursar's office](#).

Senior citizens (aged 60 and over) may audit classes at no charge. Contact the Division of Enrollment and Student Affairs at 1250 14th Street, 303-556-8427.

Candidate for Degree

You must be registered for at least one course during the semester in which you take the comprehensive exam, defend your dissertation or thesis or present your final project. If you are NOT registered for any other courses, you MUST register for

[CAND 5940 - Candidate for Degree](#)

. You may only register for this course once.

To register for CAND 5940, Candidate for Degree, (you may NOT be registered for any other courses) obtain the class number from your department or program director. You will be billed at one credit hour of resident tuition plus the ISIS fee and the information technology fee. Students registered for CAND 5940 will be considered full-time for financial aid and enrollment verification purposes.

Course Load/Restrictions

In most cases, students wishing to take more than 18 semester hours (12 in the summer session) must have the overload approved by the dean of their college or school. Consult the individual college or school for specific guidelines as to course-load restrictions.

Credit by Examination

Degree students may take examinations for credit. To qualify for an examination, the student must be formally working toward a degree at CU Denver, have a GPA of at least 2.0 and be currently registered. Contact the registrar's office for instructions. A nonrefundable fee is charged. Students should contact their degree advising office to determine whether the credit will apply to their degree.

No Credit

Students may register for a course on a no-credit basis with the consent of their instructor and the dean of their school or college. No grade or credit is awarded. The transcript reflects the name of the course taken and an N/C notation.

Pass/Fail Procedure

1. Students who wish to register for a course on a pass/fail basis (or to revert from pass/fail to graded status) may do so only during the drop/add period.
2. Up to 16 semester hours of course work may be taken on a pass/fail basis and credited toward the bachelor's degree. *Only six hours of course work may be taken pass/fail in any given semester.* (Note: Individual schools and colleges may have additional restrictions as to pass/fail credits. See the accompanying chart for an overview.)
3. Instructors will not be informed of pass/fail registration. All students who register for a pass/fail appear on the regular class roster, and a normal letter grade is assigned by the professor. When

grades are received in the registrar's office, those registrations with a pass/fail designation are automatically converted by the grade application system. Grades of D- and above convert to grades of P. Courses taken pass/fail will be included in hours toward graduation. Pass grades are not included in a student's GPA. An F grade in a course taken pass/fail will be included in the GPA.

4. Pass/fail registration records are maintained by the registrar's office.
5. Exceptions to the pass/fail regulations are permitted for specified courses offered by the School of Education & Human Development, the extended studies programs and study abroad programs.
6. Graduate degree students can exercise the P/F option for undergraduate courses only. **A grade of P will not be acceptable for graduate credit to satisfy any Graduate School requirement.**
7. Students who register for a course on a pass/fail basis may not later (after the drop/add period) decide to receive a letter grade.

Note: many other institutions will not accept a P grade for transfer credit.

PASS/FAIL OPTION RESTRICTIONS

Core Curriculum courses used to satisfy Intellectual Competencies cannot be taken on pass/fail basis.

<u>College/School</u>	<u>General</u>	<u>Maximum</u>
Business	Only nonbusiness electives may be taken pass/fail.	Only 6 semester hours may be taken pass/fail.
Engineering and Applied Science	Required courses may not be taken pass/fail. Upper division humanities and social sciences electives are acceptable; otherwise, major department approval is required.	A maximum of 16 semester hours may be taken pass/fail, including courses taken in the honors program.
Liberal Arts and Sciences	College requires a minimum of 30 semester hours of courses with letter grades. Courses used to satisfy major, minor or foreign language cannot be taken on a pass/fail basis.	No more than 6 hours pass/fail any semester. A maximum of 16 semester hours may be taken pass/fail.

Module/Intensive Courses

Courses are also offered in five-week modules, in special weekend courses and in seminars. Students should contact the college/school for information on short-term courses offered each semester.

Withdrawal from the University

To withdraw from the University of Colorado Denver, students must drop all courses for the semester. Prior to census (see current academic calendar for census date), students must use the web registration system to drop courses. Courses dropped during this period are not recorded on the student's permanent record.

After the census date (see current academic calendar for census date), through the 10th week (fourth week for summer) students must submit a withdrawal form with the approval of the dean and the Office of Financial Aid (if receiving aid). Courses dropped during this period will be recorded on the student's permanent record with a grade of W.

Students seeking to withdraw after the 10th week (fourth week for summer) must petition the associate dean of their school or college. A student who stops attending classes without officially withdrawing from the university will receive grades of F for all course work during that term.

Deadlines for dropping module and intensive courses appear in the student portal.

Other Registrations

Concurrent Enrollment

Degree-seeking students who wish to attend two University of Colorado campuses concurrently must obtain permission from their school or college on their home campus. A student in a degree program registered on the Denver Campus may take up to two courses or six semester hours (whichever is greater) on another CU campus if:

- the student obtains a concurrent registration form from the office of the academic dean or the registrar's office
- the course is not offered at the Denver Campus
- the student obtains approval from the academic dean
- there is space available at the other (host) campus
- the student pays tuition at the Denver Campus (home campus) at Denver Campus rates
- the home campus school or college arranges for space in the host campus classes
- the concurrent request is processed before the end of the drop/add period on both the host and home campuses

To drop a concurrent course during the *host* campus drop/add period, arrange the drop at the home campus registrar's office. To drop a concurrent course after the end of the host campus drop/add deadline, drop the course at the *host* campus registrar's office.

Interinstitutional Registration

CU Denver degree students may enroll in courses offered by the Community College of Denver. Students must be enrolled at CU Denver for at least one course during the term to be eligible to

register interinstitutionally. Registration is on a space available basis. Interinstitutional courses are evaluated for transfer credit and are not included in a CU Denver student's GPA.

Pooled Courses at Metropolitan State College of Denver

Certain courses in the College of Liberal Arts and Sciences and the College of Arts & Media have been pooled with similar courses at Metropolitan State College of Denver (Metro State). *Undergraduate* students at the Denver Campus may register for any of the pooled courses listed in the CU Denver web registration system. Restrictions apply to the pooled courses:

1. CU Denver graduate students are not eligible to register for Metro State pooled courses.
2. Metro State pooled courses will not be included in the University of Colorado GPA. Metro State courses will appear on the University of Colorado transcript and will count in hours toward graduation. See an academic advisor for approval.
3. Metro State courses cannot be used to meet specific course requirements toward the major without prior written approval of the student's dean.
4. CU Denver students who wish to take nonpooled Metro State courses must apply directly as a nondegree student to Metro State and pay tuition and fees to Metro State. Nonpooled classes will not appear on the University of Colorado transcript and will not be used in determining course loads for financial aid eligibility. Students may request a Metro State transcript to be sent to CU Denver at the end of the term to determine if credit can be transferred.
5. Metro State common pool courses will not satisfy residency requirements at CU Denver. The last 30 semester hours applied toward the baccalaureate degree must be taken in residence at the CU Denver campus.
6. CU Denver students taking Metro State common pool courses are subject to the Metro State grading policy and student code of conduct.

Academic Records

Student Classification

Students are classified according to the number of semester hours passed:

Freshman	0-29 hours
Sophomore	30-59 hours
Junior	60-89 hours
Senior	90+ hours

All transfer students will be classified on the same basis according to their hours of credit accepted by the University of Colorado.

Grading System and Policies

The following grading system and policies have been standardized for all academic units of the university. Other academic policies are listed in the [University Policies chapter](#) of this catalog.

Grade Symbols

The instructor is responsible for whatever grade symbol (e.g., A, B, C, D, F, I or IP) is to be assigned. Special symbols (NC and W) are indications of registration or grade status and are not assigned by the instructor. Pass/fail designations are not assigned by the instructor but are automatically converted by the grade application system, as explained under “Pass/Fail Procedure.”

Standard Grades	Quality Points
<i>A = superior/excellent</i>	4
<i>A(-) =</i>	3.7
<i>B(+) =</i>	3.3
<i>B = good/better than average</i>	3
<i>B(-) =</i>	2.7
<i>C(+) =</i>	2.3
<i>C = competent/average</i>	2
<i>C(-) =</i>	1.7
<i>D(+)=</i>	1.3
<i>D =</i>	1
<i>D(-) = minimum passing</i>	0.7
<i>F = failing</i>	0

Instructors may, at their discretion, use the PLUS/MINUS system but are not required to do so.

I-incomplete-converted to an F if not completed within one year.

IP-in progress-thesis at the graduate level only.

P/F-pass/fail-P grade is not included in the GPA; the F grade is included; up to 16 hours of pass/fail course work may be credited toward a bachelor's degree.

H/P/F-honors/pass/fail-intended for honors courses; semester hours count toward the degree but are not included in the GPA.

NC indicates registration on a no-credit basis.
W indicates withdrawal without credit.

Explanation of I

An I is an incomplete grade. Policies with respect to I grades are available in the individual college and school dean's offices.

An I is given only when students, for reasons beyond their control, have been unable to complete course requirements. A substantial amount of work must have been satisfactorily completed before approval for such a grade is given.

The instructor who assigns an I sets the conditions under which the course work can be completed and the time limit for its completion. The student is expected to complete the requirements by the established deadline and not retake the entire course.

It is the instructor's and/or the student's decision whether a course should be retaken. If a course is retaken, it must be completed on the Denver Campus or in extended studies classes. The student must re-register for the course and pay the appropriate tuition.

The final grade (earned by completing the course requirements or by retaking the course) does not result in deletion of the I from the transcript. A second entry is posted on the transcript to show the final grade for the course, with a notation that the course was 'originally graded as I.'

At the end of one year, I grades for courses that are not completed or repeated are changed to an F.

Grade Point Average (GPA)

GPA is computed by multiplying the credit points per hour (for example, B = 3) by the number of semester hours for each course. Total the hours, total the credit points and divide the total points by the total hours. Grades of P, NC, ***, W, IP, and I are not included in the GPA. I grades that are not completed within one year are calculated as F in the GPA.

If a course is repeated, all grades earned are used in determining the GPA. Grades received at another institution are not included in the University of Colorado GPA.

Undergraduate, graduate and nondegree graduate GPAs are calculated separately. Enrollment in a second undergraduate or graduate program will not generate a second undergraduate or graduate GPA.

Students should refer to their academic dean's office for individual GPA calculations as they relate to academic progress and graduation from their college or school.

Good Academic Standing

Good academic standing requires a minimum GPA that is determined by the student's school or college. Grades earned at another institution are not used in calculating the GPA at the University of Colorado.

Degree students should consult the academic standards section of their school or college for degree program requirements.

Continuation as a nondegree student is contingent upon maintaining an overall GPA of 2.0 upon completion of 12 or more semester hours.

Failure to maintain the required average will result in a nondegree student being suspended. The suspension is for an indefinite period of time and becomes part of the student's permanent record at the university. While under suspension, enrollment at the university is restricted. For more information contact the dean's office of the school /college you are enrolled in.

Nondegree students are not placed on academic probation prior to being suspended.

Automated Degree Progress

A degree progress report is an automated record reflecting a student's academic progress toward completing degree requirements in a declared major. Each degree progress report draws its information from the university's student information system. Each time a new report is run, the most up-to-date course information and grades are used. A report can be requested by logging on to the student portal. Students should contact their schools and colleges for additional information on the availability of a specific degree progress report.

Grade Reports

Grades are normally available within two weeks after the end of the semester and can be accessed by logging into the UCD Access portal.

Graduation

Undergraduates

Students should make an appointment with the advising office of their school or college to determine what requirements remain for graduation. Students intending to graduate must complete an intent to graduate application found on the [Office of the Registrar's Web page](#) under Degree Planning between the first day of registration for the term and the last day of drop/add (noted on the academic calendar - census). Students will not be officially certified to graduate until a final audit of the student's record has been completed approximately six weeks after the end of the term. After students have been certified to graduate, they must reapply to return to the Denver Campus.

Graduates

Students on the Denver Campus must file an application for candidacy with their graduate school office and complete an intent to graduate application found on the [Office of the Registrar's Web page](#) under Degree Planning between the first day of registration for the term and the last day of drop/add. Check with your school for more information. Students will not be officially certified to graduate until a final audit of the student's record has been completed, approximately six weeks after the end of the term. After students have been certified to graduate, they must reapply to return to CU Denver.

Commencement

In early March, informational brochures will be mailed to students eligible to participate in the May spring-semester commencement. In early October, information regarding the December commencement will be mailed to students who graduated in summer term or expect to graduate in fall term. Information will be provided about ordering special display diplomas, fittings for caps and gowns and obtaining diplomas and transcripts with the degree recorded. This information is also available at www.ucdenver.edu/student-services/graduation/Pages/Graduation.aspx.

Class Rank

Class rank will be calculated by undergraduate degree program within a school or college. It is possible for more than one student to have the same class rank. If more than one student has equivalent class ranking it will be reported as such. The option for a letter indicating the student's class rank will be provided to any graduating undergraduate, but there will be no designation on the University of Colorado transcript for Denver Campus students receiving bachelor's degrees. There will be one class rank per student per degree. Students can obtain class rank letters through the student portal. Late postings and grade changes after degrees are posted will not recalculate rankings. Rankings will be a snapshot calculation conducted once per term for each graduating undergraduate student after degrees are posted.

Official Transcripts

The official transcript includes the complete undergraduate and graduate academic record of courses taken at all campus locations or divisions of the University of Colorado. It contains the signature of the registrar and the official seal of the university.

Official transcripts with posted grades for any given semester are available approximately three weeks after final exams. A transcript on which a degree is to be recorded is available approximately eight weeks after final exams.

For Denver Campus students, transcripts may be ordered through the student portal ([UCDAccess](#)) or through the online ordering portal by visiting www.ucdenver.edu/transcripts

There is no charge for individual official transcripts (however fees are assessed for rush service). Transcripts are prepared only at the student's request in writing or online through the UCD Access portal. A student with financial obligations to the university that are due and unpaid will not be granted a transcript. Official transcripts require seven to ten working days for processing. Rush service is available and fees are assessed based on the service requested.

[Notification of Rights Under FERPA at University of Colorado Denver](#)

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their educational records:

1. The right to inspect and review the student's educational records within 45 days of the day that the university receives a request for access. Students should submit to the registrar, dean, head of the academic department or other appropriate official written requests that identify the record(s) they wish to inspect. The university official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's educational records that the student believes are inaccurate or misleading. Students may ask the university to amend a record that they believe is inaccurate or misleading. They should write the university official responsible for the record, clearly identify the part of the record they want changed and specify why it is inaccurate or misleading. If the university decides not to amend the record as requested by the student, the university will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosure of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the university in an administrative, supervisory, academic or research or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted (such as an attorney, auditor or collection agent); a person serving on the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility. Upon request, the university discloses educational records without consent to officials of another school in which a student seeks or intends to enroll.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University of Colorado to comply with the requirements of FERPA.

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

The following items are designated “Directory Information” and may be released at the discretion of the University of Colorado Denver unless a student files a request to prevent their disclosure:

- name
- address
- e-mail address
- telephone number
- dates of attendance
- registration status
- class
- major
- awards
- honors
- degrees conferred
- photos
- past and present participation in officially recognized sports and non-curricular activities
- physical factors (height, weight) of athletes

Forms to prevent the disclosure of directory information can be obtained at the Student Service Center in North Classroom, 1003, or via the registrar’s Web site at www.ucdenver.edu/registrar. Questions regarding student rights under FERPA should be directed to the registrar’s office, 303-556-2389.

Campus Life

- [Auraria Campus](#)
- [Campus Amenities](#)
- [Campus Safety](#)
- [Student Housing](#)
- [Student Housing Frequently Asked Questions](#)
- [Student Right To Know and Disclosure Information](#)

The University of Colorado Denver, Denver Campus is physically located on the 151-acre Auraria Campus, which is shared with two other institutions—Metropolitan State University of Denver and Community College of Denver. Because we share facilities, our students have access to the level of resources found at much larger public universities. Since fall of 2006, the university has also been able to offer student housing adjacent to this traditionally commuter campus. Details about the campus and Campus Village are explained in this chapter.

Auraria Campus

Since opening in 1976, Auraria has become the largest campus in Colorado, enrolling nearly 50,000 students—20 percent of all the students in public higher education in the state. This is the

most efficiently utilized campus in the state. Classrooms on the Auraria Campus are used an average of 50+ hours per week. Classes are held from 8 a.m. to 10 p.m. Monday through Thursday and from 8 a.m. to 6 p.m. on Friday, Saturday and Sunday. Some courses and programs are offered cooperatively by the Auraria educational institutions. Those pertaining to CU Denver students are outlined in this catalog.

The Auraria Campus offers numerous amenities to students, faculty and staff, from the largest bookstore in the Rocky Mountain region to a state-of-the-art fitness facility. Details of these amenities are outlined in this chapter.

In addition to its proximity to the thriving business and industry of downtown Denver, the Auraria Campus has a distinct historic flavor. The Tivoli Student Union is housed in a renovated brewery originally built in the 1860s. Historic Ninth Street Park, St. Cajetan's Church/Performing Arts Center, St. Elizabeth's Church, the Emmanuel-Sherith Chapel/Synagogue/Art Gallery and the Golda Meir House Museum are also located on campus.

Auraria Higher Education Center

The Auraria Higher Education Center (AHEC) is the administrative body that coordinates the facilities, services and activities for the three educational institutions on campus. AHEC provides common services for the campus including: classroom scheduling, facilities services and construction, campus police, telecommunications infrastructure, student union, media services, book store, early learning center, parking and transportation, mail services and facilities master planning. Visit their website for additional information.

Campus Amenities

Auraria Campus Bookstore

Location: Tivoli Student Union

Phone Number: 303-556- 4286

Website: www.aurariabooks.com

Facebook: <http://facebook.com/Aurariacampusbookstore>

The Auraria Campus Bookstore, a department of the Auraria Higher Education Center, is located in the historic Tivoli Student Union. Your campus store provides exclusive school spirit clothing and gifts, general school supplies, technology products, and most importantly textbooks.

Find your school spirit with CU Denver sweatshirts, t-shirts, hats, gifts, and more! We also provide school and art supplies, along with items like greeting cards for your convenience.

The Bookstore is an Apple Authorized Campus Store. Visit the campus computers section on the second floor to find Mac computers, iPods, calculators, flash drives, and more. Bring your current student ID to save up to 80% off of technology retail prices.

Shop the bookstore for thousands of titles to rent or buy new or used. Many titles are also available in e-book form and unbound loose-leaf form. Visit www.aurariabooks.com for our Textbook Pick-up program. This allows you to shop from home and come pick up your purchase at your convenience or to be delivered. Take advantage of our buyback program at the end of each semester, contributing to student savings by paying cash for books with your current student ID!

Find a line of general books of all genres on the second floor. Whether you need study aids, reference materials, or just a book to unwind, you'll find everyday savings of 30% off of all New York Times bestsellers. We strive to bring you the best in service, convenience and value; and we appreciate your business. Supporting the Bookstore keeps your money local and helps fund campus programs. We are also one of the largest student employers on campus; contact us for rewarding opportunities.

Auraria Campus Event Services

Location: Tivoli Student Union 325

Phone Number: 303-556-2755 (Option #2)

Email: acesmaindesk@ahec.edu

Website: www.ahec.edu/eventservices

Auraria Campus Event Services (ACES) can assist you in booking rooms across the Auraria Campus for meetings, conferences, receptions, ceremonies, special events, etc. A majority of the event spaces on campus are located in the Tivoli Student Union, but other event venues are also available such as: St. Cajetan's Event Center, PE/Event Center, several outdoor event spaces and other various event spaces. Classroom space is also available to book through ACES, some restrictions apply. ACES has 7 preferred caterers to choose from for all your catering needs. You can contact ACES by phone: 303-556-2755 option #2 or by email: acesmaindesk@ahec.edu. Please visit our website for more information: www.ahec.edu/eventservices.

Auraria Early Learning Center (Child Care Center)

Location: West Colfax and Ninth Street Park

Phone Number: 303-556-3188

Hours: Mon.–Fri. 7 a.m.–6 p.m.

Website: www.ahec.edu/earlylearning

The Auraria Early Learning Center serves the child care needs of Auraria's students, staff and faculty by providing high-quality early childhood education and care programs. The Auraria Early Learning Center is located at the south end of 9th Street Park. Its programs are consistently recognized by the educational community for their high-quality early childhood care and education. Developmentally appropriate practices for young children guide the educational programs that are provided. Curriculum planning is flexible and based on children's interests.

Supervising teachers in the Auraria Early Learning Center are all degreed teachers meeting the certification guidelines of the State of Colorado and of the National Academy of Early

Childhood programs. Children aged 12 months to 5 years are served at the center. The center also has a fully accredited kindergarten program.

Auraria Event Center/Student Recreation Center

Location: 1255 Tenth Street Mall

Phone Number: 303-352-4371 (fitness center); 303-556-3210 (recreation); 303-556-2755 (events)

Website: www.msudenver.edu/~cra

The Auraria Campus PE/Event Center is a 2,800-seat facility for team and individual sport activities, academic programs, events and conferences. Funds from student recreation fees support the use by students of the many health and recreation facilities found within the building. Adjacent to the building are softball fields, tennis courts and a track.

Auraria Library

Phone Number: 303-556-2740

Website: <http://library.auraria.edu>

The Auraria Library connects users with ideas through technology-enabled information discovery and delivery on an “anytime, anyplace” basis. The Library’s collections of learning materials, resources, and research services support the information, research, and curriculum needs of the Auraria Campus. Whether you are looking for a quiet place to read and reflect, a place to share a cup of coffee while working with classmates on a group project, a source of authoritative academic information, or a computer-enabled collaborative study room, the Library will meet your needs. Assistance from Library staff is available via one-on-one meetings, by phone, text, or chat on our website (library.auraria.edu/services/researchhelp).

Auraria Media Center and Classroom Support

Location: 1100 Lawrence Street (East side of the Auraria Library), 015

Phone Number: 303-556-2426

Website: <http://mediacenter.ahec.edu>

The Auraria Media Center and Classroom Support Services offers a full range of media services and classroom support:

- distance learning technologies including video conferencing, webinars, audio conferencing, video over IP and ISDN and videotaping of course delivery
- circulation of a wide range of audio, video and data (AVD) presentation equipment for one-time use
- long-term classroom equipment check-out
- production of content on digital tape, DVD, CD and videotape by an award-winning staff using state-of-the-art digital editing, graphics and animation systems
- quantity duplication of DVD, CD, audio and videotape media
- equipment maintenance and repair

- equipment/systems consultation and installation

The Auraria Media Center's 34-channel closed-circuit campus cable system can be used in the classroom to broadcast channels such as CNN, MSNBC, History, Discovery, A&E, PBS, CSPAN, NASA and local television networks. One channel is dedicated to and managed by each institution for distribution of programming of their choice.

Auraria Media Center staff are available to train faculty in the use of equipment in "smart" classrooms on campus and offer consulting services to faculty and other clients in such areas as media design and production, effective use of media types and effective use of distance learning technologies, effective use of those technologies and equipment selection to best meet instructional needs.

Auraria Media Center and Classroom Support Services will handle all of your classroom needs regarding furniture, projector screens, whiteboards, smart classroom equipment and ADA furniture placement.

Emmanuel Gallery

Location: 10th and Lawrence Street Pedestrian Mall

Phone Number: 303-556-8337

Tri-institutional campus on Auraria Campus for over 35 years. Historical landmark who received the Mayor's Art for Excellence in 2012 featuring national, international artists, designers and architects as well as featuring student and faculty shows for each school on campus. Stop in for a relaxing break.

Health Center at Auraria

Location: Plaza Building 150

Phone Number: 303-556-2525

Website: <http://www.ucdenver.edu/life/services/health-center/Pages/default.aspx>

All Downtown Campus students, faculty and staff have access to medical services at the Health Center at Auraria. Student health insurance is NOT required to use this facility. However, for students on Medicare or Medicaid the Health Center is only approved to provide emergency care.

The Health Center at Auraria is staffed by Physicians (including University of Colorado Physicians), physician assistants, nurse practitioners, radiological technologists, and medical assistants.

A full array of medical services are provided, including the treatment of acute and chronic illness, injuries and mental health needs, laboratory testing, medications, physicals, annual GYN exams, sexually transmitted disease screening, birth control services, minor surgery, immunizations, HIV testing, casting, suturing, and x-ray. Specialist physicians in

orthopedics, psychiatry and GYN complement the professional medical personnel available to students.

Charges for services are kept below community standards and are established at a level to ensure that students will have access to an economical medical resource for their health needs. Payment is required at the time of service, except for students who participate in the Student Health Insurance Program or for any student, faculty or staff who is insured by Blue Cross/Blue Shield, Aetna, Humana and Cofinity Network in which case the Health Center will bill these insurance carriers directly.

Hours of operation are Monday through Thursday from 8:00 a.m. to 5:00 p.m. and Fridays from 8:00 a.m. to 3:00 p.m. Patients can either walk-in or call 303-556-2525 to schedule an appointment. Walk-in access varies daily, contingent upon when all patient slots have been filled; thus, the daily closure time for walk-in care is variable. Patients are encouraged to check in as early as possible.

King Academic and Performing Arts Center

Location: 855 Lawrence Way

Phone Number: 303-556-2179

Website: www.ahec.edu/kingcenter

The King Center houses six performing spaces: three permanently assigned production studios, a 197-seat recital hall; 520-seat concert hall; and the 168-297 seat (depending on stage configuration) Eugenia Rawls Courtyard Theatre. There are dressing rooms, green room, recording studio, lighting lab, music electronics lab, classroom space, box office, scene shop, paint shop and costume shop. All spaces are fully equipped with state-of-the-art equipment and a variety of spaces for exhibiting fine art. The entire facility has more than 180,000 square feet dedicated to the education of the student and development of the student who wishes to study performance/arts. The center can support many forms of entertainment, anywhere from legit theatre to large choral ensembles and other forms of performances.

Tivoli Student Union

Location: Tivoli Student Union 325

Phone Number: 303-556-6330

Website: www.tivoli.org/tivoli

The Tivoli Student Union, managed by Student Facilities Services, provides a wide variety of services for the Auraria community. The Student Union houses student government and student life offices, two credit unions, two student newspapers, three computer labs, and tri-institutional services such as the GLBT Student Services.

If you want a break or a quiet place to study, the Tivoli Student Union is just the place. With a food court, a new pizza restaurant, a coffeehouse and deli, and a convenience store, you'll find a place to suit your appetite, schedule, and budget. If you'd rather retreat than eat, you can watch

TV in the historic Boiler Room Student Lounge, play a game of pool or a video game at Sigi's Pool Hall, meet a study group in the Roger Braun Lounge or Multicultural Student Lounge or study in total silence in the Garage Quiet Study Lounge.

Additional student services at the Tivoli Student Union include the Auraria Campus Bookstore, the Club Hub, Ricoh Copy Center, Event and Conference Services, the ID Program, the Commuter Resource Center and the Lost & Found.

Club Hub

Suite 346, 303-556-8094

This uniquely designed club space on the third floor of the Tivoli features work space for more than 60 clubs, mailboxes for campus clubs, a limited number of lockers, club bulletin boards and a lounge area for group meetings. This office works closely with the Student Advisory Committee to the Auraria Board (SACAB) and the student activities/life offices.

Campus ID Program/Commuter and Housing Resources

Location: Tivoli Student Union 269

Phone Number: 303-556-8385

Auraria Campus staff, faculty, and students come here to get their ID cards, which are necessary for parking in some campus lots and for checking out library books. With a Student ID, students receive a second card which serves as the RTD bus pass and light rail pass. The RTD CollegePass Smart Cards are activated and deactivated based on the enrollment status of a student. The center provides campus information, RTD bus & Light Rail information, lost & found, and off-campus housing resources.

Sigi's Pool Hall and Arcade

Location: Tivoli Student Union 145

Phone Number: 303-556-3645

Sigi's, named after Tivoli Brewery founder Moritz Sigi, houses 8 Arcade game machines, 6 Billiard tables, 3 Table Tennis, Air Hockey table, Foosball table, most current Xbox and Wii games. Sigi's is open to the entire Auraria Campus population. The student-friendly atmosphere encourages community socialization and relaxation. Sigi's Pool Hall and Arcade staff holds numerous tournaments throughout the semester for Auraria Campus students to participate at and show off their skills.

[Campus Safety](#)

Auraria Police Department

Location: 1201 5th Street Denver, CO 80217, Administration Building on the Auraria Campus
Police Dispatch Number: 303-556-6000

Campus Police Mission

The Auraria Campus Police Department is committed to enhancing the quality of life on the Auraria Campus by protecting life and property, and providing a wide range of services to prevent crime and resolve problems.

Services (The Auraria Campus Police Department provides campus services 24 hours a day, 7 days a week.)

- Crime prevention programs
- Informational services
- Police support to campus staff
- Night escorts to your vehicle
- Security patrols, bicycle patrols, foot patrols
- Vehicle unlocks
- Emergency response (Emergency Phone Map: <http://www.ahec.edu/campusmaps/index.htm>)
- Timely Notification Bulletin for the Auraria Campus
- Immediate notice of crimes affecting the Auraria Campus.

The Auraria Handivan Service is offered Monday through Thursday 7:00 am-10:00 pm and on Friday's from 7:00 am-6:00 pm. Also, take advantage of Auraria's Nightrider escort service. It will take you to any building or parking lot on campus Monday through Thursday, Sundown to 10:00pm. The wait time is usually no longer than 10 minutes. To arrange for the Nightrider, contact the Auraria Parking Office at (303) 556-2001. If the Nightrider is not running, contact the Auraria Campus Police Department at (303) 556-5000 to arrange for an escort to your car.

Emergency Notification System

The Emergency Notification System (ENS) tool provided by the University of Colorado Denver (CU Denver) for students, faculty and staff provides timely life-safety alerts. You are able to receive these alerts via text, voice and email messaging. Your CU Denver email address has already been added to this system. If you would receive emergency alerts on your cell phone, make sure that you enter your cell phone number into the PROFILE section of your student or employee portal at <https://my.cu.edu/>. If you have questions, please contact the CU Denver Emergency Manager, Essi Ellis, at Essi.Ellis@ucdenver.edu or by phone at 303-724-1031.

Student Housing

University Policy and Support: Tivoli Student Union, 227

Phone Number: 303-556-2444

E-mail: housing@ucdenver.edu

Website: <http://www.ucdenver.edu/life/services/housing/Pages/default.aspx>

Leasing and Payment Options: Campus Village Apartments, 318 Walnut Street
Phone Number: 303-573-5272
E-mail: mgrdenver@edrtrust.com
Website: www.campusvillageliving.com

The University of Colorado Denver, Denver Campus, has a live-in requirement for first-time undergraduate students

Benefits of living on-campus

Research has shown that living in student housing during the first year has numerous benefits for students both academically and socially. Students who live on-campus their first year experience:

- Higher graduation rates than students who live off campus.
- A higher level of satisfaction with their college experience.
- A higher level of involvement in clubs and activities on campus.
- More frequent interaction with faculty members and peers.

Live-in Policy

The University of Colorado Denver is a residential campus, and all first-year students live in the Campus Village Apartments at Auraria. No other apartments or buildings meet the live-in policy requirement. First-year students live together in a dedicated wing of Campus Village. This wing includes the following additional amenities:

- Additional Staff – This wing of the complex will have a higher ratio of staff to students to help provide additional support, guidance and resources for first-time students.
- Special Programming – Many of the programming efforts sponsored by the university will be taking place in the first-year student wing of Campus Village. Programs will focus on study skills, navigating the university and community, living with a roommate and a variety of other topics.
- Connections with other first-year students - First-year students share many of the same challenges and anxieties as they begin their college careers. Living in a community of students going through the same types of experiences provides a built-in support network and can lead to lasting friendships.

Exemptions

First-time freshman students wishing to live with their parent(s) or legal guardian(s) or who qualify under at least one of the exemptions listed below must submit the “Exemption Form” to be considered for exception from the live-in policy. Exemptions to this policy will be evaluated and made on a case-by-case basis. For further information, please contact the Office of Student Life at 303-556-3399 or via e-mail at housing@ucdenver.edu.

Exemptions to the first-time freshmen live-in requirement:

1. You will be living at home with parent(s) or legal guardian(s).
2. You are a veteran of the armed forces.

3. You are married or a parent with dependent(s).
4. You are a part-time undergraduate student enrolled for less than 10 credit hours per semester.
5. You are deemed medically excusable by the Office of Community Standards and Wellness (must be supported in writing by a doctor and with appropriate medical documentation).
6. You are over 21 years of age.
7. All other requests will be evaluated on a case-by-case basis.

Exemptions will be evaluated and made on a case-by-case basis. Exemption forms are available through the Office of Community Standards and Wellness, Tivoli Student Union, 259, or online at <http://www.ucdenver.edu/life/services/housing/prospective-students/1st-year-students/Pages/Exemptions.aspx>. For further information, please contact the Office of Community Standards and Wellness at 303-556-2444 or via e-mail at housing@ucdenver.edu.

Campus Village Frequently Asked Questions

Q. How close to campus is Campus Village?

A. Campus Village is adjacent to campus at 318 Walnut Street.

Q. Can I use my financial aid?

A. You should review any documentation concerning grants, loans or scholarships with your parents and the financial aid office. Financial aid awards are used to pay your tuition and fees first; any remaining award(s) are then used to pay your housing charges. Students are responsible for charges not covered by financial aid and scholarships. Please contact Campus Village at rsmDenver@edrtrust.com for further questions.

Q. Do I have to have a meal plan?

A. Campus Village offers a full service Cafeteria and Cyber Café but only CU Denver first-year students are required to have a meal plan.

Q. Is parking available?

A. Yes, we offer parking on site. Parking for the 2014-2015 year is \$80.00

Q. What kind of security arrangements do you have?

A. We've done our best to create a safe and secure environment at Campus Village. The grounds are protected by key-card access, as is the building. The front desk is staffed 24 hours a day. There are emergency phones in each parking lot and at the gates into the courtyard. On site staff will do rounds of the property, and they'll be equipped with cell phones to call for assistance if necessary. All of the outside doors are alarmed—if they are propped open, the alarm will sound.

CU Denver and the Auraria campus consistently rank amongst the safest campuses in Colorado. Campus Village has many systems in place to help ensure that we maintain this outstanding record of safety.

- 24-hour staffing including a 24/7 front desk
- Card-access doors and limited points of entry

- On-site professional security personnel from dusk until dawn
- Multiple evening and overnight patrols of the building and grounds
- Emergency phones on and adjacent to the property
- Easy Lobby check-in system for all guests
- Exterior doors are alarmed to prevent propping
- Night Rider shuttle service
- Educational workshops and programs focused on safety

Q. Can I request an apartment or roommate?

A. Yes, but a request does not guarantee a roommate or an apartment. We use a roommate matching system online through Facebook called Room Sync which allows you to choose your own roommates. Similar to online dating for roommates.

Q. What if my roommate leaves partway through the year? Will I be responsible for his/her share of the rent?

A. No, you won't. You're responsible only for the rent for your bed, whether you're in a studio or a four-bedroom unit. If one of your roommates bails, you're not on the hook for his/her rent.

Q. What utilities are included in my rent?

A. Rent includes a fully furnished apartment, high-speed wireless internet, cable television, electricity, water, sewage and trash.

Q. What size are the beds?

A. The beds are extra-long twin size in the two-bedroom, two bathroom, double-occupancy apartments/suites. All other apartments/suites have an 80-inch full-/double-sized bed.

Q. What do I need to hook up my computer to the Internet?

A. We provide Internet connections in each apartment for the residents. All you need to provide is an Ethernet cord if you wish to have hard wire hooks ups. Otherwise the whole building is equipped with WiFi.

Q. What is the deadline for applying for a lease?

A. There is no deadline for submitting applications. However, contracts are signed on a first-come, first-serve basis, so it is better to send in a contract sooner rather than later. The priority deadline for CU Denver first-year students is May 15.

Q. Do you have any rules about smoking?

A. Campus Village is a nonsmoking facility, including the outside courtyards. You can smoke outside in the designated smoking pavilion.

Q. I'm married or in a domestic partnership. Can my partner and I share a studio unit?

A. Campus Village is geared more toward singles; it's not set up as married student or couples housing. The rule is, "one head per bed"—so a married couple cannot rent a studio at Campus Village. You can, however, rent a two bedroom unit.

Q. Will the building be closed during semester breaks, spring break or summer vacation?

A. Campus Village is open year-round to residents—depending on the timeframe of your lease agreement. The Cyber Café and convenience store will also be open year-round.

Q. Do you allow pets?

A. Pets are not allowed at Campus Village.

Detailed information about Campus Village is available online at www.campusvillageliving.com.

Amenities

At Campus Village Apartments, students will find a community to support their academic, social, and personal goals and aspirations. It's convenient, comfortable and affordable. Campus Village is more than a place to live, it is a living experience. Features include:

- Fully-furnished, Suite-Style Apartments with full kitchen or kitchenette in every unit
- All Utilities included & Individual Leases
- On-Site Dining w/Meal Plans Available
- Community Wide Wireless Internet
- Just Steps to Campus & Light Rail
- Access-Controlled Building & 24-Hour Front Desk
- Gated, On-Site Parking Available
- Customized Roommate Matching
- Complimentary Tutoring & Academic Support
- Computer Lab & Complimentary Printing
- Complimentary Laundry
- Exciting Social & Educational Programs
- 24-Hour Fitness Center & Basketball Half Court
- Movie/TV Lounge & Study Lounges

More information on Campus Village including floor plans, details about meal plans, pricing, and applications are available on the website at www.campusvillagedenver.com.

Important Dates and Information

May 15, 2014: CU Denver First-Year Student Priority Deadline

Freshman students are required to live in Campus Village for two academic-year semesters. Most residence hall assignments are made on a first-come, first-served basis, so you are encouraged to apply for housing as soon as possible after you confirm your enrollment.

Payment and Billing

Campus Village housing and dining fees can be billed to your CU Denver student account. If you receive financial aid, your award(s) will be credited directly to your student account. Financial aid awards are used to pay your tuition and fees first; any remaining award(s) are then used to

pay your housing charges. You are responsible for any and all charges not covered by financial aid and scholarships. You must provide Campus Village with proof/verification of funds by July 15, 2014. Please contact Campus Village with questions on how to use financial aid.

[Student Right To Know and Disclosure Information](#)

Crime Statistics

In compliance with the federal Student Right-to-Know and Campus Security Act, the Auraria Campus publishes crime statistics on campus in the Auraria Campus Clery Report. In an emergency, please contact Auraria Campus Police at 303-556-5000 or dial 911 from a campus phone.

Persistence and Completion Data

Section 103 of Title 1 of Public Law 101-542 as amended by Public Law 102-26 (the Federal “Student Right-to-Know” Act) requires that institutions produce and make available to current and prospective students the completion rate of first-time, full-time, degree-seeking undergraduate students entering the institution. Six years after entering, 43 percent of the fall 2003 cohort graduated, another 13 percent transferred to other public higher education institutions in Colorado and 15 percent were still enrolled at the Denver Campus for a total six-year combined persistence and completion rate of 71 percent.

CU Denver’s one-year fall-to-fall retention rate is 70 percent for the fall 2008 cohort. That is, of the first-time, full-time, degree-seeking undergraduate students who entered the university in fall 2008, 70 percent were enrolled at the Denver Campus in fall 2009.

Riot Law (Student Riot Bill)

Student enrollment-prohibition-public peace and order convictions: 1) No person who is convicted of a riot offense shall be enrolled in a state-supported institution of higher education for a period of 12 months following the date of conviction; 2) a student who is enrolled in a state-supported institution of higher education and who is convicted of a riot offense shall be immediately suspended from the institution upon the institution’s notification of such conviction for a period of 12 months following the date of conviction, except that if a student has been suspended prior to the date of conviction by the state-supported institution of higher education for the same riot activity, the twelve month suspension shall run from the start of the suspension imposed by the institution; 3) nothing in this section shall be construed to prohibit a state-supported institution of higher education from implementing its own policies and procedures or disciplinary actions in addition to the suspension under (2) of this section, regarding students involved in riot.

Sex Offender Information (Campus Sex Crimes Prevention Act)

Sex offenders are required to list the locations of all institutions of post-secondary education where he or she volunteers or is enrolled or employed. The Colorado Bureau of Investigation

maintains a database identifying all such persons and makes it available to all law enforcement agencies in which jurisdiction the institution of postsecondary education is located. The campus community can obtain this information by contacting the Auraria Police Department at 303-556-5000.

Voter Registration (National Voter Registration Act)

In compliance with the National Voter Registration Act, the state of Colorado voter registration application form and information is available online at www.fec.gov/votregis/vr.shtml.

Student Services

- [Academic Success and Advising Center](#)
- [Campus Assessment, Response Evaluation \(CARE Team\)](#)
- [Career Center](#)
- [Club Sports](#)
- [College of Arts & Media Advising](#)
- [Community Standards](#)
- [Commuter Services and Off-Campus Housing](#)
- [Disability Resources and Services](#)
- [Educational Opportunity Programs \(EOP\)](#)
- [ESL Academy](#)
- [Experiential Learning Center](#)
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- [Global Education, Study Abroad](#)
- [Information Technology Services](#)
- [International Affairs](#)
- [International Colleges](#)
- [International Student and Scholar Services](#)
- [Learning Resource Center](#)
- [New Student Orientation](#)
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- [Peer Advocate Leader \(PAL\) Program](#)
- [Pre-Collegiate and Academic Outreach](#)
- [Student Activities and Events](#)
- [Student Activities and Events](#)
- [Student and Community Counseling Center](#)
- [Student Government Association](#)
- [Student Health Insurance](#)
- [Student Life](#)
- [Student Newspaper: The Advocate](#)
- [Student Organizations and Leadership Programs](#)
- [Title IX: Sexual Harassment, and Sexual Misconduct](#)
- [Veteran Student Services](#)
- [Volunteer and Community Service](#)
- [Women's Resource Center](#)
- [Writing Center](#)

Academic Success and Advising Center

Location: Academic Building 1, Room 1113

Phone Number: 303-315-1940

Fax: 303-315-1945

Website: <http://ucdenver.edu/life/services/asac/Pages/default.aspx>

Academic advising is the foundation of a successful college experience. The Academic Success and Advising Center (ASAC) assists students in the development of meaningful educational plans. This office serves as the first point of contact for students who are pre-architecture, pre-business, pre-engineering, undecided in the College of Liberal Arts and Sciences as well as all freshmen and undecided in the College of Arts & Media. Students assigned to ASAC meet with an advisor every semester to plan a schedule, and discuss academic support services. The center provides general information and resource referrals to all students.

Campus Assessment, Response and Evaluation (CARE) Team

Location: Tivoli 454

Phone Number: (303) 352-3579

The CARE Team is committed to improving campus safety and student success by proactively and collaboratively managing situations and individuals that pose, or may reasonably pose, a threat to the safety and well-being of the campus community. The team coordinates with students, faculty, and staff as well as concerned others when assessing or responding to individuals who may pose a risk to themselves or others. The team intervenes where necessary and provides resources, referrals and assistance to those in need.

Career Center

Location: Tivoli Student Union 267

Phone Number: 303-556-2250

The Career Center offers a full array of services that prepare students for their transition from college to career. Students are encouraged to participate in career-related programs and services as early as their freshman year. This includes obtaining help in choosing a major, deciding on career options, and refining job search skills and experience necessary to be successful upon graduation.

The Career Center's mission is to provide personal and meaningful interactions with students, alumni and employers in order to prepare them for the world of work, and we want students to Work With Purpose.

Club Sports

Location: Tivoli Student Union 303

Phone Number: 303-556-3399

Email: clubsports@ucdenver.edu

Website: <http://www.ucdenver.edu/clubsports>

Club Sports are teams created and organized through student leadership to promote skill or interest in a particular sport. These teams are often competitive due to regularly scheduled

practices and the use of part-time coaches. Club Teams frequently choose to compete against other schools across Colorado and the nation.

Club Sports are meant to be a learning experience for the members through their involvement in fundraising, public relations, organization, administration, budgeting and scheduling. Involvement in a group and/or team situation helps enhance the student's overall education while improving the community at CU Denver. The leadership training and opportunities available through active participation in a sport club are intended to benefit the participant throughout his/her life.

College of Arts & Media Office of Academic Advising and Student Services

Location: Arts Building, Suite 177

Phone Number: 303-556-2279

Fax: 303-556-2335

E-mail: CAMadvising@ucdenver.edu

The Office of Advising and Student Services provides students with academic information about the College of Arts & Media and university. Advisors assist students in tracking their academic progress, discussing remaining requirements and course sequencing, and in offering appropriate referrals to faculty and other university services (e.g., Career Center). The office also coordinates student notifications (e.g., add/drop deadlines, scholarship opportunities, probation/suspension, applying to graduate) and college academic events (e.g., convocation and commencement) as well as maintaining advising-related materials. While students are encouraged to make use of the service of academic advising throughout their college career, students are ultimately responsible for their own academic progress.

Academic advising may be mandated or suggested prior to registration depending on the student's status. Students can view registration holds in the Student Center of their UCD Access accounts.

New Freshmen and Transfer Students: New freshmen are required to attend New Student Orientation and meet with an advisor before registering for their first semester, and then later are required to meet with an advisor in the Academic Success and Advising Center (ASAC) before registering for their second semester. See information about Orientation and ASAC elsewhere on this page. Transfer students are required to meet with an academic advisor in the College of Arts & Media prior to registering for their first semester of courses.

Continuing Students: Students with declared majors who have completed at least 30 semester hours are assigned to the college's Office of Advising and Student Services. Students are encouraged to meet with an advisor at least once per year. We recommend bringing a sample schedule to each advising appointment.

Students approaching their junior and senior years are encouraged to meet with a faculty mentor in their area of study to discuss internships, career/employment opportunities, graduate school, professional organizations and other post-graduation information. Students may contact the

Office of Advising and Student Services for suggested faculty referrals by interest and for faculty contact information.

Community Standards

Location: Tivoli Student Union 227

Phone Number: 303-556-2444

The Office of Student Conduct and Community Standards serves as a resource to the entire University community through its efforts to meet the developmental and educational needs of students related to community expectations, civility and respect for self and others. We function to support community members with conflict management and resolution, and responding to inappropriate and threatening behaviors. We provide student-centered educational services, which promote personal development and individual responsibility. We strive to create a dynamic, open and just environment where civility, cultural competence, and learning are expected and celebrated. The office works collaboratively with the Healthy Relationships Coalition, Campus Village Student Housing, the Auraria Health Center, and other campus entities to provide a variety of resources and activities around health, wellness and ethical development.

Commuter Services and Off-Campus Housing

Commuter Student Services

Location: Tivoli Student Union - Suite 227

Phone Number: 303-556-2444

Office Mission Statement

To provide off-campus and commuter students with resources and support to be successful and healthy on the go.

About Us/Services for Students

The Commuter Services website offers non-traditional and commuter students a variety of resources about living and studying in Denver. This site covers everything from finding a roommate and a place to live, to where to shop for groceries and tips on finding child care.

The Off-Campus Housing Fair is held each spring semester and offers students a chance to learn more about (and meet) property owners and landlords in the Denver area. This event is a great way for students to learn more about their rights and responsibilities as tenants.

www.places4students.com is an online database that allows students to view available off-campus rentals and to find potential roommates. This service is free to students, faculty, and staff at CU Denver. Faculty and staff can also list their rental units on this site for a minimal fee.

Disability Resources and Services

Location: Academic Building 1, Room 2116

Phone Number: 303-556-3450

TTY Number: 303-556-4766

Email: disabilityresources@ucdenver.edu

Website: <http://www.ucdenver.edu/disabilityresources>

The Office of Disability Resources and Services (DRS) is committed to providing equal opportunities and fostering the personal growth and development of students with disabilities. The DRS staff strives to meet the needs of a large and diverse community of students with disabilities. We are available to provide assistance and to arrange for reasonable accommodations that will address specific educational needs. Accommodations may include, but are not limited to, the following:

- Priority registration for classes
- Assistance in identifying volunteer note takers
- Alternative testing for assessment tests and classroom examinations
- Oral/sign language interpreters
- Real-time captioning
- Textbooks in alternate formats (audio taped, Braille, enlarged, scanned)

Educational Opportunity Programs (EOP)

Location: Academic Building 1, Room 2007

Phone Number: 303-556-2065

The University of Colorado Denver Educational Opportunity Programs (EOP) office provides services: a) to support underrepresented students and b) to promote a diverse and inclusive campus for all students, faculty, and staff.

American Indian Student Services

Location: AB1, Rm. 2001

Director Phone Number: 303-556-2860

Asian American Student Services

Location: AB1, Rm. 2001

Director Phone Number: 303-556-6209

Black Student services

Location: AB1, Rm. 2001

Director Phone Number: 303-556-2701

Hispanic Student services

Location: AB1, Rm. 2001

Director Phone Number: 303-556-3561

[ESL Academy](#)

The University of Colorado Denver's English as a Second Language (ESL) Academy offers a rich diversity of academic, social, and cultural learning opportunities and is located in a newly renovated space right along 16th Street Mall in the heart of downtown Denver.

The Academy offers high-quality, year-round ESL instruction specifically designed for university preparation. The curriculum helps students improve their language skills through a rigorous program of study, campus involvement, and cultural and educational activities.

Our program offers the following distinctive advantages when compared against other programs:

The curriculum is designed especially for university-bound students. In addition to mastering academic English, students will learn how to succeed academically at the University of Colorado Denver.

Students in the ESL Academy will be considered University of Colorado Denver students. They will be on the university campus from day one of our program and will be eligible to live in university housing, though there will be limited availability for students who join our program mid-term.

Students will have access to all of the activities and resources that the university has to offer, not to mention the spectacular outdoors and urban life in Denver and Colorado.

Students may be allowed to take one or two regular academic courses that count towards fulfillment of CU Denver degree requirements once they achieve a measure of English proficiency.

When a student completes the ESL Academy successfully, s/he will automatically fulfill the University of Colorado Denver's English language proficiency requirement and will be eligible for full admission.

Students will be issued a Form I-20 from the University of Colorado Denver for a seamless immigration experience and will not have to transfer their immigration status to begin their degree program upon complete of the ESL Academy.

Students will benefit from a seamless transition to university degree programs after they successfully complete the ESL Academy, thus maximizing the prospects of their success.

For full details, visit the ESL Academy online at esl.ucdenver.edu. Here, students can get information about:

- The online application
- Program information
- Tuition and Fees
- International Student Services

If you have additional questions you may send an email to esl@ucdenver.edu or call 303.315.2383.

Experiential Learning Center

Location: Tivoli Student Union 260

Phone Number: 303-556-6656

Experiential learning includes a variety of activities with one common goal-to immerse you in hands-on learning outside the classroom where your experience is at the heart of the learning process. The Experiential Learning Center (ELC) serves students, faculty, and employers as a resource for experiential learning opportunities. We offer information, resources and support in the development and coordination of academic and non-academic internship experiences, professional skill development opportunities, and undergraduate research experiences.

Gay, Lesbian, Bisexual, & Transgender (GLBT) Student Services at Auraria

Location: Tivoli Student Union 213

Phone Number: 303-556-6333

Gay, Lesbian, Bisexual & Transgender Student Services is open to all Auraria campus students as a resource for exploring sexual orientation, gender identity, and gender expression. This program offers a variety of support, education, and advocacy services for the entire campus community:

- Support for those who may have questions about their own sexual orientation, gender identity, gender expression, or that of a friend or family member
- Advocacy for students experiencing discrimination or harassment based on a real or perceived LGBTQ identity
- Speakers for events, workshops, and classes on various aspects of sexual orientation/gender identification
- Programs and workshops about working more effectively with the gay, lesbian, bisexual, and transgender communities and combating misinformation, misconceptions, and homophobia
- Resource library with over 1700 books and videos (documentary and cinema) available for research and leisure as well as a multitude of free literature regarding other organizations and services throughout Denver and Colorado that provide outreach, services, and advocacy.

The GLBT Student Services office is staffed by a director with the support of student employees and volunteers. Input and involvement from the entire campus community are welcomed.

Global Education, Study Abroad

Director: John Sunnygard

Phone Number: +1-303-315-2230

Global Education is the university's central office that supports all students seeking to internationalize their education and gain professional preparation to more effectively serve and compete in a global world. The office advises and prepares students, faculty and staff to safely navigate the full range of global academic and learning opportunities. Global Education has a network of study abroad programs, international internship, volunteer and service learning opportunities in more than 80 countries. Graduate, professional and undergraduate students from both campuses that conduct international research also benefit from Global Education's support services.

The Semester in Beijing semester program is of particular interest to communication, economics, math and international studies students. Students from Denver and China study together on our partner campus at China Agricultural University in Beijing. Students take English-taught CU Denver courses for CU Denver credit. The program cost is the same as studying in Denver, with several scholarship opportunities to further reduce the price.

Study abroad programs are offered in a variety of terms, costs and disciplines to suit the full spectrum of CU Denver students. Students may choose to immerse themselves in a more traditional academic year or semester program abroad; or to conduct research on field studies sites. Many students choose to study for credit with CU Denver faculty on one of the many affordable, focused Global Study programs over winter break, Maymester or summer.

While many students study abroad to learn or perfect language skills, most students participate in English-taught programs in non-English and English-speaking countries. Either CU Denver or transfer credit may be earned on approved programs abroad, giving students the opportunity to fulfill degree requirements while living, learning and growing in another culture.

We make every effort to keep global educational opportunities affordable for all CU Denver students. Additionally, scholarships and financial aid may be available depending upon the program and location. Information and advice on scholarships such as Fulbright, NSEP, Gilman and others is also available. For the most current information on programs, policies and the benefits of global education, please visit the Global Education website at ucdenver.edu/studyabroad.

Information Technology Services

Office: Lawrence Street Center, 1350

Phone Number: 303-724-4357

Information Technology Services (IT Services) provides central support of the telecommunications, computing and network infrastructure for the Denver Campus and the Anschutz Medical Campus. IT Services also provides computing resources such as computer accounts, e-mail, file storage, server hosting, Internet, Internet2 and National Lambda Rail.

The IT Services help desk is a single point-of-contact for reporting computer-related problems or requesting services. Faculty and staff are encouraged to contact the help desk for general questions about computing at the university.

IT Services also provides student computing services to currently enrolled students within the computer labs located in the North Classroom 1206, St. Cajetans 101 and the Tivoli 241. The computer labs have Macintosh and Windows-based computers with Internet access available for student use on a first-come first-served basis. For more information, call the IT Services Help Desk at 303-724-HELP.

[International Affairs](#)

Acting Assistant Vice Chancellor: Regina Kilkenny

Courier Address: International Affairs, 1380 Lawrence Street, 9th floor, Denver, CO 80204-2029, U.S.A.

Mailing Address: International Affairs, Campus Box 185, P.O. Box 173364, Denver, CO 80217-3364, U.S.A.

Phone Number: +1-303-315-2230

Fax: +1-303-315-2246

The Office of International Affairs (OIA) serves the university by providing administrative support, strategic advice, technical services, collaborative educational programs with the university's 13 schools and colleges, and related services that contribute to the strategic international goals of the university. The Office provides visa and orientation services to international students and scholars, provides expertise in the development and maintenance of undergraduate, graduate and professional global education, assists with brokering and designing bilateral international educational programs and offers comprehensive international recruitment and admissions services. OIA addresses international policy issues, has oversight of international risk management protocols, serves as a resource for best practices in the internationalization of higher education, maintains central data bases pertaining to international activities of the university, advises on the development of international affiliations and agreements, assists departments/programs and schools/colleges with the development of comprehensive international strategic planning and seeks to promote and support initiatives that advance international research, education and global cooperation, and to enhance the reputation of the University of Colorado Denver worldwide.

OIA serves as a resource for faculty seeking international research opportunities, provides a comprehensive list of international scholarship/fellowship information, and serves as the institutional liaison for the CIES Fulbright Scholars Program.

The divisions of OIA include:

- ESL (English as a Second Language) Academy (www.ESL.ucdenver.edu)
- Global Administrative Services/Global Operations (www.international.ucdenver.edu)
- Global Education: Study Abroad (www.ucdenver.edu/studyabroad)
- International Admissions (www.internationaladmissions.ucdenver.edu)
- International Student and Scholar Services (www.international.ucdenver.edu/ISSS)
- International Colleges and Partnerships (www.ucdenver.edu/academics/InternationalPrograms/OIA/InternationalCollegesPartnerships)

International Colleges and Partnerships

Staff: Joanne Wambeke, Student Affairs

Email: joanne.wambeke@ucdenver.edu,

Phone Number: +1-303-315-2121.

International Colleges and Partnerships (ICP) develops and maintains sustainable academic programs abroad to enhance the globalization of teaching and learning at the University of Colorado Denver and its partner institutions and to facilitate the discovery and sharing of knowledge between CU Denver and the world.

International College Beijing

International College Beijing (ICB) is a joint education program between the University of Colorado Denver (CU Denver) and China Agricultural University (CAU), located in Beijing, People's Republic of China. The partnership, formed in 1994, was one of the first of its kind approved by the Chinese Ministry of Education.

At ICB students can choose to earn a CU Denver bachelor of arts degree in either economics or communication on site in Beijing. Or students can choose to study in Denver to complete their undergraduate programs after a year or two of study at ICB. As courses are taught in English by CU Denver faculty, U.S. students can learn or perfect their Chinese while pursuing rigorous courses in English in their chosen undergraduate field of study alongside ICB Chinese students, fostering a truly global classroom experience.

ICB is located on the east campus of China Agricultural University in the Haidian district north of downtown Beijing. The campus is a 30-minute ride from downtown Beijing, Beijing International Airport and major cultural centers such as Tiananmen Square, the Forbidden City and the Summer Palace.

International Student & Scholar Services

Office of International Affairs

Location: Lawrence Street Center, Suite 932

Phone Number: 303-315-2230

The International Student & Scholar Services (ISSS) unit in the Office of International Affairs Serves over 1,400 international students and 500 international scholars from all over the world each year. ISSS is responsible for ensuring university-wide compliance with a wide range of federal regulations relating to the enrollment and/or employment of international students and scholars. ISSS creates immigration documents, coordinates orientation for new international students, helps students maintain their immigration status once they are here, offers a variety of programs and activities, and advises students on everything from adjusting to a new culture to applying for work authorization. ISSS also works closely with academic advisors and student services to ensure the success of our international students. For additional information about ISSS staff members and the services we provide, please visit our website at <http://www.ucdenver.edu/academics/InternationalPrograms/OIA/ISSS/>

Learning Resources Center

Location: Academic Building 1, Room 2105

Phone Number: 303-556-2802

Email: tutorialservices@ucdenver.edu

Website: www.ucdenver.edu/lrc

The Learning Resources Center is designed to promote student success, retention, and graduation in the academic setting. Available to undergraduate and graduate students, free services include CRLA certified tutoring, Supplemental Instructions (SI), Academic Development workshops and coaching, Conversation Group, and English for Speakers of Other Languages (ESOL) support.

Lynx Center and New Student Orientation

Location: Academic Building 1, Room 1105

Phone Number: 303-315-3503

Email: lynxcenter@ucdenver.edu

Fax: 303-315-3048

Office Hours: Monday-Friday, 8am-5pm

The Lynx Center provides all prospective and current CU Denver students with quick and easy access to resources, referrals and solutions. New Student Orientation supports newly admitted students and their families during their transition to CU Denver by offering orientation and welcome events at the beginning of each semester and during the summer months. For more information, check us out at www.ucdenver.edu/lynxcenter.

Ombuds Office

Location: CU-Denver Building, Suite 100P

Phone: 303-315-0046

Website: www.ucdenver.edu/ombuds

Contact: Katherine Greenwood

The Ombuds Office is a free service that assists students in resolving CU Denver conflicts, complaints, and disputes. The cornerstones of our office are: confidentiality, impartiality, informality, and independence. Students typically use our office when facing issues that seem unfair to them or when they just don't know what to do next.

A sampling of concerns are:

- The actions of faculty, staff, or other students
- Denials of petitions
- Harassment of any kind
- Administrative decisions
- Grading disputes
- Clarification of policies or procedures

We can assist you in identifying and evaluating your options for dealing with issues so you can have the best chance of reaching a satisfactory outcome. Our Ombuds can also mediate disputes involving student clubs and organizations and provide conflict management training.

Peer Advocate Leader (PAL) Program

Location: Tivoli Student Union 127

Phone Number: 303-556-5801

Website: www.ucdenver.edu/PAL

The Peer Advocate Leaders (PAL) program promotes leadership for all students involved by matching undergraduate student leaders with various groups of undergraduate students. The mentoring relationship is designed to foster student engagement and academic success by providing peer-level support that fosters student achievement, growth, and learning throughout students' academic career at the University of Colorado Denver.

Pre-Collegiate and Academic Outreach Programs

Location: North Classroom 4032

Phone Number: 303-556-2322

Email: pcdp@ucdenver.edu

The Center currently houses unique and distinct programs. These programs are identified as having: early outreach, ongoing pro-active guidance, educational access, retention, and finally graduation from higher education. "The mission of the Center for Pre-Collegiate and Academic Outreach Programs at the University of Colorado Denver is to administer pre-college and pipeline programs. These programs are designed to motivate, educate, and prepare students to be

successful in secondary and post-secondary education with the ultimate goal of obtaining a higher educational degree.”

Student Activities and Events

Location: Tivoli Student Union 303

Phone Number: 303-556-3399

Website: www.ucdenver.edu/events

Student Activities within the Office of Student Life offers a comprehensive student engagement program that helps bring about a positive college experience for every student. Our goal is to integrate what students learn from the full range of their experiences and to engage them in active learning both inside and outside the classroom. We collaborate with faculty and staff across CU Denver to provide a wide variety of programs. and are committed to bringing new and exciting activities, events and workshops that provide innovative opportunities for student learning, especially in the areas of self-knowledge, leadership, diversity, communication, service, civic engagement and social responsibility. Through participation in co-curricular activities, we help students enhance interpersonal, leadership and critical thinking skills and help prepare them for active citizenship beyond college.

Student and Community Counseling Center

Location: Tivoli Student Union 454

Phone Number: 303-556-4372

The Student and Community Counseling Center provides counseling sessions, groups and life skills workshops at no charge to students attending the Downtown Campus. Our services emphasize client strengths, recognizing diversity and promoting wellness to optimize academic success. We serve individuals, couples, families, and groups for mental health concerns including, but not limited to:

- Anxiety
- Case management
- Crisis Intervention
- Depression
- Life skills
- Relationships
- Social justice issues
- Stress management
- Substance abuse

If appropriate, we refer students to additional on-campus and/or community resources through our WRAP (Wellness Resources Action Plan) program. By request, staff provide consultation, lectures and workshops to student, faculty, and staff groups on mental health topics, diversity, center services, and organizational and student development.

Student Government Association

Location: Tivoli Student Union 301

Phone Number: 303-556-2510

Website: <http://www.ucdenver.edu/sga>

The Student Government Association serves as a voice for students. Similar to the structure of the U.S. Government, SGA has executive, legislative and judicial branches. Executives, Senators, and SACAB representatives are elected each year in the spring semester. SGA assists students with information concerning student clubs and organizations, campus events, issues concerning student status and other information of general interest to students. SGA also provides student assistance with grievances and the opportunity to become more closely involved with the university community through active participation in student government itself or through service on university, tri-institutional and Auraria committees.

Student Health Insurance Office

Location: Tivoli Student Union 127

Phone Number: 303-556-6273

Website: <http://www.ucdenver.edu/studenthealthinsurance>

The Student Health Insurance Office strongly encourages all students to have adequate health insurance coverage. The university health plan is designed to coordinate services with the Health Center at Auraria to provide quality health care at the lowest possible cost. For domestic students, the university health plan is voluntary. International students with F-1 and J-1 student visas are required to carry the health insurance plan provided by the university.

Student Life

Location: Tivoli Student Union 303

Phone Number: 303-556-3399

Website: www.ucdenver.edu/studentlife

The Office of Student Life integrates the academic, residential, and co-curricular spheres of students' lives, linking the out-of-class experience to the academic mission of the University while enhancing the overall educational experience of students through the development of, exposure to and participation in social, cultural, intellectual, recreational, leadership and governance programs. The Office of Student Life is the advising, coordinating, resource and general information center for student organizations, the academic honor societies student government and the student newspaper. We collaborate with students, faculty, administrators, and other partners both inside and outside of the CU Denver community to create safe environments for students. In addition, we create opportunities for students to learn through active participation and reflection where they can develop as responsible leaders and engage with their peers and cultivate appreciation for diversity and the betterment of our global society. The Office of Student Life is comprised of Student Activities, Student Organizations and Student Leadership Programs, Volunteer and Community Service, Milo the CU Denver Mascot and Club

Sports. The Director of Student Life represents the Assistant Vice Chancellor of Student Life/Dean of Students on selected CU Denver, tri-institutional and Auraria committees and maintains effective lines of communication with the Student Assistance Office at the Anschutz Medical Campus.

Student Newspaper: The Advocate

Office: Tivoli Student Union, 345

Phone Number: 303-556-2535

The purpose of the The Advocate is to provide students with information about campus issues and events. The newspaper strives to include good investigative reporting, feature articles and items of general interest to its campus readership. In addition, the newspaper is a tool to encourage and develop writers, journalists, artists and other student members of its general management and production staff.

Student Organizations and Student Leadership Programs

Location: Tivoli Student Union 303

Phone Number: 303-556-3399

Website: <http://www.ucdenver.edu/life/services/studentlife/Student%20Orgs/Pages/default.aspx>

Get involved with a student organization, student government or the campus newspaper. CU Denver has over 200 student organizations, honor societies, professional organizations and faith-based groups. We help students register with student organizations, and provide services, information, education, support, and advising to assist with the development and strengthening of students and student groups. In addition, we provide multiple opportunities for students to engage in practicing and developing their leadership skills. Leadership programs include diverse leadership conferences including the Women's Leadership Conference, a conference focused on feminist leadership; CO-Leads, a state wide multi-cultural leadership conference; and the Lynx Leadership Conference, a program designed to increase the leadership skills of CU Denver Students. We also provide leadership trainings that enhance the co-curricular experience on campus through programs such as Leadership On Demand, a program designed for students involved in student organizations on campus; and Student Government Association, providing a voice for students on campus. We encourage students to take advantage of shared governance and increase the sense of community on campus through all of the leadership programs.

Title IX: Sex Discrimination, Sexual Harassment, and Sexual Misconduct

Location: Tivoli Student Union 127

Phone Number: 303-352-3578

Website: www.ucdenver.edu/TitleIX

Related Policies and Procedures:

Title IX Grievance

Procedures: <http://www.ucdenver.edu/about/WhoWeAre/Chancellor/ViceChancellors/Provost/StudentAffairs/UniversityLife/sexualmisconduct/Pages/CampusOptions.aspx>

Sexual Harassment Policy and Procedures: <https://www.cu.edu/policies/aps/hr/5014.pdf>

Sexual Misconduct: <http://www.ucdenver.edu/life/services/standards/Documents/CUDenver-CodeofConduct.pdf>

The University of Colorado Denver is committed to taking prompt and effective actions to end sex discrimination, prevent its reoccurrence, and remedy its effects upon the victims and community. The University employs trained professionals who have responsibility for Title IX compliance, which includes investigating allegations of sex discrimination and retaliation. The Title IX Coordinator oversees the development, implementation, and evaluation of Title IX policies, procedures, and training efforts and he/she will refer all complaints to the appropriate Title IX Investigator.

To file a complaint or raise a question, please contact one of the Title IX officers listed below.

The Title IX Coordinator for the Denver Campus is:

Raul Cardenas, PhD. Associate Vice Chancellor of Student Affairs

Phone number: 303-315-2110

Email: Raul.Cardenas@ucdenver.edu

Office address: Lawrence Street Center, 14th Floor Denver, CO 80202

Mailing address: Campus Box 146

All student complaints will be referred to or can be filed with:

Title IX Investigator & Trainer

Anthony Antuna

Email: Anthony.Antuna@ucdenver.edu

Office address: Lawrence Street Center, 14th Floor Denver, CO 80202

Phone number: 303-352-3578

All non-student complaints will be referred to or can be filed with:

Human Resources

Phone number: 303-315-2700

Email: Human.Resources@ucdenver.edu

Veteran Student Services

Location: Tivoli Student Union 124

Phone Number: 303-556-2745

The Office of Veteran Student Services (OVSS) is the initial contact point for military, veterans and dependent students attending CU Denver. The main priority of the office is to verify U.S. Department of Veterans Affairs education benefit certification for eligible students, ensuring that each student meets the Veterans Administration requirements for attendance, course load, content, as well as all other regulations necessary to receive educational benefit payments. This office assists students with filling out Veteran Affairs paperwork and in solving problems associated with the receipt of Veteran Affairs related educational benefits. The OVSS provides student mentoring, transition assistance into higher education, mental health services that are specific to the military and transition issues, and career preparation through the Boots to Suits Program. The office also serves as a liaison to numerous Veteran community resources. In addition, the OVSS mission is to improve and enrich the educational experience of our current and former service members and their dependents through advocacy, community, as well as appropriate and responsive services.

Volunteer and Community Service

Location: Tivoli Student Union 303

Phone Number: 303-556-3399

Website: <http://www.ucdenver.edu/volunteer>

College is the perfect time to get involved by volunteering. Through the Office of Student Life, we offer a variety programs to help students get connected to the community. The Alternative Break program allows students to travel to various cities (and countries) to volunteer over spring, winter and summer breaks. Volunteer Fairs held at the beginning of each semester bring in over 65 non-profit organizations to campus. We also run a food pantry that is available to any student in need. Individuals or organizations can donate non-perishable food items to help support this service. Be sure to stop by the Office of Student Life to learn more about volunteerism and service.

Women's Resource Center

Location: Tivoli Student Union 127

Phone Number: 303-556-3399

Website: www.ucdenver.edu/wrc

It is the Women's Resource Center's mission to provide resources, advocacy, services, and programming, which promote awareness of women's issues and equality for all students. We are a safe and nurturing space that enables women, specifically underrepresented women, in the university community to thrive. We value inclusion, social justice, and gender equity as a means to ensure respect and tolerance for all people regardless of background or experience. To

accomplish this mission, the WRC runs several events, workshops, and educational conferences every year, as well as provides direct resource consultation for students in need.

Writing Center

Location: North Classroom 4014

Phone Number: 303-556-4845

Website: <http://writingcenter.ucdenver.edu>

The Writing Center at CU Denver is a free resource available to all university students who wish to improve as writers. Services include in-person and online one-on-one appointments; an asynchronous Online Drop Box for graduate students; workshops on a variety of topics (for example: citation, literature reviews, C.V.s, and more); and downloadable handouts, podcasts, and videos. Professional Writing Consultants will work on any type of writing and any aspect of the writing process, including (but not limited to) idea-generation, organization, thesis development, source usage, and grammar. Students bring in documents ranging from resumes, personal statements, and research essays to theses, rhetorical analyses, and grant applications. All writing is welcome. Interested students can schedule appointments online right from the homepage (writingcenter.ucdenver.edu) or visit us at any of our locations:

- NORTH 4014 (DC): M-TR 9 AM - 6 PM and F 9 AM - 2 PM
- Campus Village (DC): Sun, M,T,W 6 PM - 9 PM
- HSL 1204 (AMC): T,W,F 11 AM - 5 PM and Sun 3 PM - 8 PM
- Online (real-time): Every Evening 6 PM - 10 PM
- An asynchronous Online Drop Box for graduate students only

All consultations are by appointment; to schedule an appointment, please visit our website.

University Policies

Click on any of the following links for information:

- [Academic Honor Code and Discipline Policies](#)
- [Academic Probation and Suspension Policies](#)
- [Code of Student Conduct](#)

Every organization, large and small, runs more smoothly when policies and procedures are in place. This chapter touches briefly on policies that are most important to students and their academic pursuits. The University of Colorado Denver's Policies and Guidelines website, www.ucdenver.edu/faculty_staff/employees/policies/, provides a complete list of policies for every facet of the organization, including those from other organizations that affect the Denver Campus, such as the Laws of the Regents and policies of the Auraria Higher Education Center.

Academic Honor Code and Discipline Policies

Policies related to academic credit and grades are explained in the [Registration and Records](#) chapter of this catalog.

University Policies

Phone: 303-315-2724

Website: http://www.ucdenver.edu/faculty_staff/employees/policies/pages/default.aspx

The [Office of Policy and Efficiency](#) - with input from system and campus policy owners - develops, oversees and maintains the University's system wide policy-making process; facilitates the development, review, approval, and maintenance of University-wide policies.

Policies include:

- Inclusiveness and Non-Discrimination
- Anti-Violence Policy
- Sexual Harassment
- Drugs and Alcohol Policy

For further information on University Policies please contact an individual via the information above.

Academic Integrity And Discipline Policies

A university's reputation is built on a standing tradition of excellence and scholastic integrity. As members of the University of Colorado Denver academic community, faculty and students accept the responsibility to maintain the highest standards of intellectual honesty and ethical conduct in completing all forms of academic work at the university. Academic dishonesty is academic in nature, and students are encouraged to contact their academic advisor for details of how policies and procedures differ from one college to another.

Forms of Academic Dishonesty

Students are expected to know, understand and comply with the ethical standards of the university. Academic dishonesty is defined as a student's use of unauthorized assistance with intent to deceive an instructor or other such person who may be assigned to evaluate the student's work in meeting course and degree requirements. Examples of academic dishonesty include, but are not limited to the following:

A. Plagiarism

Plagiarism is the use of another person's distinctive ideas or words without acknowledgement. The incorporation of another person's work into one's own requires appropriate identification and acknowledgement, regardless of the means of appropriation.

B. Cheating

Cheating involves the possession, communication or use of information, materials, notes, study aids or other devices not authorized by the instructor in any academic exercise or communication with another person during such an exercise.

C. Fabrication and Falsification

Fabrication involves inventing or counterfeiting information, i.e., creating results not obtained in a study or laboratory experiment. Falsification, on the other hand, involves the deliberate alteration or changing of results to suit one's needs in an experiment or other academic exercise.

D. Multiple Submissions

This is the submission of academic work for which academic credit has already been earned, when such submission is made without instructor authorization.

E. Misuse of Academic Materials

The misuse of academic materials includes but is not limited to the following: stealing or destroying university property, illegitimate possession of examination materials, forgery, falsification of university documents.

F. Complicity in Academic Dishonesty

Complicity involves knowingly contributing to another's acts of academic dishonesty.

School/College Specific Policy

Business School

Students are expected to conduct themselves in accordance with the highest standards of honesty and integrity. Cheating, plagiarism, illegitimate possession and disposition of examinations, alteration, forgery, falsification of official records and similar acts or any attempt to engage in such acts are grounds for suspension or expulsion from the university. In particular, students are advised that plagiarism consists of any act involving the offering of the work of someone else as the student's own. It is recommended that students consult with the instructors as to the proper preparation of reports, papers, etc., to avoid this and similar offenses. Also, actions that disrupt the administrative process, such as misrepresentation of credentials or academic status, other forms of deception or verbal abuse of university staff are grounds for suspension or probation. All discovered acts of dishonesty must be referred to the Business School's Internal Affairs Committee.

College of Engineering and Applied Science

Students are expected to conduct themselves in accordance with the highest standards of honesty and integrity. Cheating, plagiarism, illegitimate possession and disposition of examinations, alteration, forgery or falsification of official records and similar acts or attempts to engage in such acts are grounds for suspension or expulsion from the university.

In particular, students are advised that plagiarism consists of any act involving the offering of the work of someone else as the student's own.

At CU Denver, there is a student Academic Honor Code. The code is published in a brochure available from the Office of Student Life. Information regarding all student grievance procedures may be obtained in that office.

In addition, the college has a committee on discipline that hears cases of alleged violations of academic ethics and recommends disciplinary action. In a case of proven academic dishonesty/misconduct, the committee may invoke penalties that may include probation, suspension or expulsion. In a case of suspension or expulsion, a distinction may be placed on a student's academic record indicating the action was due to academic dishonesty/misconduct. Students who suspect or observe violations of academic ethics should report them to their instructor, the department chair or the Office of the Dean.

Academic Probation and Suspension Policies

Students at the University are expected to maintain progress in their degree program, as defined by being in “good academic standing.” Good academic standing requires minimally a cumulative grade point average (GPA) of 2.0 on all University of Colorado course work.

Academic Probation

- Academic probation is a warning to students that they are not progressing toward completion of their degree in a satisfactory manner.
- Students are placed on academic probation when their cumulative CU GPA falls below a 2.0 at the end of any academic term.
- Students are informed in writing (via university-assigned e-mail and postal letter) of their academic probation status.
- Students on academic probation will be required to complete the academic success plan during their first semester on academic probation.
- Students will be required to schedule an appointment and meet with their academic advisor to discuss the completed academic success plan before they will be allowed to register for the subsequent term.
- Students on academic probation will be required to schedule an appointment and meet with their academic advisor every semester that they are on academic probation before they will be allowed to register.
- Academic probation requires that students achieve a minimum 2.3 semester GPA each subsequent term until their cumulative CU GPA is at least a 2.0 to return to good academic standing. Students must achieve a minimum 2.0 cumulative CU GPA to meet graduation requirements.
- Students who fail to earn the 2.3 semester GPA during any semester of academic probation will be placed on restricted academic probation.
- Students have five semesters or 30 credits (whichever happens sooner) to raise their cumulative GPA to above a 2.0, or they will be placed on academic suspension.
- Once a student has raised his/her cumulative CU GPA to at least a 2.0, s/he will be removed from academic probation and notified via university-assigned e-mail that s/he is in academic good standing.

Academic Suspension

- Students on restricted academic probation who do not meet the 2.3 minimum semester GPA will be placed on academic suspension.
- Students are informed in writing via certified/registered letter of their academic suspension status.
- The minimum duration of academic probation is for a period of one year (three semesters, including summer term). Students placed on academic suspension will be unable to take courses from any CU campus during this time.
- Should a student be placed on academic suspension while registered for the next semester, s/he will be administratively dropped from their courses by the university.
- A student’s academic suspension status is permanently indicated on his/her official University of Colorado transcript.
- During the one-year academic suspension period, students who wish to return to the university should consider one (or both) of the following actions:
 - Attend another regionally-accredited college/university.

- Students who choose to attend another institution while on academic suspension can take as many or as few credits as they choose, but must earn a 2.75 cumulative GPA in all transferable course work.
 - Students should consult their academic advisor to discuss appropriate course work.
 - Use the time off to directly address and resolve the factors that contributed to the academic difficulty.
- After the one-year suspension period has elapsed, students must petition the appellate committee (of the school or college they wish to enter) for readmission and meet and document at least one of the following criteria:
 - Attendance at another regionally accredited college/university where they earned a minimum cumulative GPA of 2.75 in transferable credit.
 - Explanation of their previous academic difficulty, demonstration of what has changed and how this will allow them to now achieve and maintain good academic standing (including a semester GPA of at least 2.3 and a cumulative GPA of at least a 2.0).
- Students who choose to petition their college's appellate committee for re-admission must submit their petitions by the following deadlines:
 - For fall admission: June 1
 - For spring admission: December 1
 - For Maymester/summer admission: April 1
- If a student is granted readmission and his/her CU GPA is below a 2.0, s/he will be re-admitted **on restricted academic probation**. These students must meet the condition of restricted academic probation every semester until their cumulative CU GPA is at least a 2.0.

Good Academic Standing

Degree Seeking Students

Good academic standing requires a minimum GPA that is determined by the student's school or college. Grades earned at another institution (excluding other University of Colorado campuses) are not used in calculating the GPA at the University of Colorado.

Degree-seeking students should consult the academic standards section of their school or college for degree program requirements.

Students at the University are expected to maintain progress in their degree program, as defined by being in "good academic standing." Good academic standing requires minimally a cumulative grade point average (GPA) of 2.0 on all University of Colorado course work.

Non-degree Seeking Students

Continuation as a non-degree student is contingent upon maintaining an overall GPA of 2.0 upon completion of 12 or more semester hours.

Failure to maintain the required average will result in a non-degree student being suspended. The suspension is for an indefinite period of time and becomes part of the student's permanent record at the university. While under suspension, enrollment at the university is restricted. For more information contact the dean's office of the school /college you are enrolled in.

Non-degree students are not placed on academic probation prior to being suspended.

Restricted Academic Probation

- Students who fail to earn the 2.3 semester GPA during any semester of academic probation will be placed on restricted academic probation.
- Students are informed in writing (via university-assigned e-mail and postal letter) of restricted academic probation status.
- Students on restricted academic probation will be allowed to enroll for a maximum of 6 credits/two classes per semester (whichever is more). A course and its attached lab are considered to be one course in this case.
- Students on restricted academic probation will be required to schedule an appointment and meet with their academic advisor in order to register for courses.
- Students on restricted academic probation will not be able to register online; they will need to register for courses using a schedule adjustment form, which must be submitted to the Service Center (North Classroom #1003) for processing.
- Restricted academic probation requires that students achieve a minimum 2.3 semester GPA each subsequent term until their cumulative CU GPA is at least a 2.0. Students must achieve a minimum 2.0 cumulative CU GPA to return to good academic standing and to meet graduation requirements.
- Students on restricted academic probation who do not meet the 2.3 minimum semester GPA will be placed on academic suspension.
- Students who fail to raise their cumulative GPA to 2.0 or above in five semesters or 30 credit hours on academic probation and restricted academic probation will be placed on academic suspension.
- Once a student has raised his/her cumulative CU GPA to at least a 2.0, s/he will be removed from restricted academic probation and notified via university-assigned email that s/he is in academic good standing.

Second Suspension

- Students who are readmitted after their first academic suspension and fail to meet the conditions of restricted academic probation for a second time are placed on a second suspension for an indefinite period of time.
- Students on a second suspension may be readmitted to the university only by petition to the college's appellate committee.
- Students will not be considered for re-admission unless they have demonstrated *significant* improvement in academic performance at the college/university level, and/or considerable and positive change in personal circumstances.

Code of Student Conduct

The conduct listed below is prohibited, as are attempts to commit, aid, abet, or incite others to commit conduct prohibited by this code. Engaging in retaliatory acts against a person who reports an alleged violation of the code or testifies, assists, or participates in a conduct proceeding or investigation is a violation of this code.

*The recommended minimum sanction for violating any of the below standards with **bold type** shall be suspension unless specific and significant mitigating factors are present.*

1. **Assaulting or physically abusing another person or being involved in brawling.**
 - **In the case of a student who is found responsible via the Student Code of Conduct process to have caused severe injury or bodily harm, the minimum sanction shall be suspension.**
 - **Severe injury and bodily harm includes but is not limited to the following: broken bones, concussions, lacerations, etc.**
2. Intimate partner violence. Intimate partner violence is conduct between people who are or were involved in a sexual or romantic relationship when one person in the relationship causes harm or significant alarm or distress to the other person. This includes but is not limited to threats, assault, or other action against the person or their property when used as a method of coercion, control, punishment, intimidation, or revenge. For more information on Interpersonal Violence policies and procedures please see Appendix I.
3. Threatening or endangering the health or safety of a person (one's self or others).
4. Sexual Misconduct: Sexual misconduct includes non-consensual sexual intercourse, non-consensual sexual contact and sexual exploitation or exposure, and sexual Harassment.
 - **Non-consensual sexual intercourse:** Non-consensual sexual intercourse is any sexual intercourse (anal, oral or vaginal), including sexual intercourse with an object, however slight, by one person upon another without consent and/or by force.
 - **Non-consensual sexual contact:** Non-consensual sexual contact is any sexual touching (including touching with an object) however slight, by one person on another without consent and/or by force.
 - **Sexual exploitation and/or exposure:** Sexual exploitation is when a student takes non-consensual, unjust, or abusive sexual advantage of another for his/her own pleasure, advantage or benefit, or to pleasure, benefit or advantage anyone other than the one being exploited. Sexual exposure occurs when a student engages in lewd exposure of the body done with the intent to arouse or satisfy the sexual desire of any person.
 - **Sexual Harassment:** Unwelcome, gender-based verbal or physical conduct that is sufficiently severe, persistent or pervasive that it has the effect of unreasonably interfering with, limiting or denying someone the ability to participate in or benefit from the university's educational program.

***Note:** For the purposes of this Code of Conduct, consent shall be defined as the act of knowingly and voluntarily agreeing, verbally or non-verbally, to engage in sexual activity. An individual cannot consent who is obviously, substantially impaired by any drug or intoxicant; or who has been purposely compelled by coercion, force, threat of force, intimidation, or deception; or who is unaware that the act is being committed; or whose ability to consent or resist is obviously impaired because of a mental or physical condition; or who is coerced by supervisory or disciplinary authority.*

For a more complete list of terms and detailed definitions please see Appendix 1: Definitions and Procedures for Sexual Misconduct, Sexual Harassment, and Nondiscrimination Policy

5. Indecently exposing one's body (non-sexual).
6. Stalking. Repeated conduct which reasonably and subjectively causes another person to fear for his/her safety or repeated conduct which causes a person to alter his/her activities in response to the repeated conduct. Such repeated conduct may include, but is not limited to, any of the following: physically or electronically following or approaching a person or a member of that person's family or household; contacting a person or a member of that person's family or

household whether or not conversation ensues; and placing a person or a member of that person's family or household under surveillance.

7. **Hazing.** Any action or situation that recklessly or intentionally endangers the health, safety, or welfare of an individual for the purpose of initiation, participation, admission into or affiliation with any organization at the University. Hazing includes, but is not limited to, any abuse of a mental or physical nature, forced consumption of any food, liquor, drugs, or substances, or any forced physical activity that could adversely affect the health or safety of an individual. Hazing also includes any activity that would subject the individual to embarrassment or humiliation, the willingness of the participant in such activity notwithstanding. (See Appendix 5)
8. **Abusive Conduct.** Unwelcome conduct by an individual(s) that is sufficiently severe or pervasive that it alters the conditions of education or employment and creates an environment that a reasonable person would find intimidating, hostile or offensive. The determination of whether an environment is "hostile" must be based on all of the circumstances. Factors to consider include the frequency of the conduct, its severity, and whether it is threatening or humiliating. Simple teasing, offhand comments and isolated incidents (unless extremely serious) will not amount to abusive conduct.
 - This policy should not be construed, and will not be enacted, to deny any student the right of free speech and expression.
9. Violating any federal, state, or local law or University regulation or policy. University policy may include but is not limited to:
 - "Sexual Harassment Policy and Procedures" (<https://www.cu.edu/policies/aps/hr/5014.html>)
 - "Nondiscrimination Procedures" (http://www.ucdenver.edu/faculty_staff/employees/policies/Policies%20Library/HR/Nondiscrimination.pdf)
 - "Computing Policy Statement" (http://www.ucdenver.edu/faculty_staff/employees/policies/Policies%20Library/DDC/Computing/ComputingPolicy.pdf)
10. Interfering with, obstructing or disrupting a University activity.
 - University activities include, but are not limited to, all normal University activities, such as teaching, research, recreation, meetings, public events, and disciplinary proceedings.
 - This prohibition includes: conduct disruptive of University functions; from injury to persons or damage to property on the campus; and from impeding freedom of movement of students, school officials, employees, and invited guests to all facilities of the University. Interference in any manner with the public or private rights of citizens, conduct that threatens or endangers the health or safety of any person, and damage to property are prohibited.
11. Interfering with, obstructing, or disrupting police or fire responses. This prohibition includes, but is not limited to:
 - Resisting arrest.
 - Failing to abide by the directions of a peace officer.
 - **Tampering with, impairing, disabling, or misusing fire protection systems such as smoke detectors, fire extinguishers, sprinklers, or alarms.**
 - Failing to evacuate during a fire alarm.
 - **Arson/setting fires.**
12. Failing to comply with the direction of University or housing employees who are performing their duties. Students are required to comply with instructions or directions given by University or housing employees.

13. Failing to abide by or complete a University sanction in a satisfactory manner, including violating the Student Code of Conduct while on University probation, University probation with loss of good standing, termination in abeyance, or suspension in abeyance.
14. Providing false information to University employees, student conduct administrators, or peace officers in performance of their duties or forging, altering, falsifying or misusing documents or records, or knowingly using/possessing forged, altered or false documents or records.
15. Retaliating against or discouraging an individual from participating in a University process, acting improperly to influence a University conduct process, or the unauthorized release of confidential student or University information/records.
 - Direct contact with an individual or conduct officer or review committee or contact through third party may constitute a violation of this provision.
16. Violating any policy or procedure listed in the Campus Village Apartments Resident Handbook while in Campus Village. See a complete list of Campus Village Policies and procedures at: <http://www.campusvillagedenver.com>
17. Unauthorized entry into or exit from a University facility or property, including Campus Village Apartments.
18. Damaging University property or property belonging to another.
19. **Engaging in, inciting, or arming someone for a riot or public disturbance (see appendix 4).**
20. Use of electronic or other devices to make an audio or video record of another person without that person's express consent and/or knowledge when such a recording is likely to cause injury to or exploit the individual being recorded.
21. **Possessing firearms, explosives, fireworks, incendiary devices, ammunition, or other weapons on campus.**
 - Possession of a harmless instrument designed to look like firearm, explosive, or dangerous weapon is also prohibited by this policy(including but not limited to BB guns, pellet guns, airsoft guns, martial arts equipment, and knives with a blade over 3" in length).
 - s mandated by Regent's Policy, in the case of a student who is found responsible via the Student Code of Conduct process to have intentionally or recklessly used or possessed a weapon in a way that would intimidate, harass, injure, or otherwise interfere with the learning and working environment of the University, the minimum disciplinary sanction shall be expulsion.
 - In the case of a harmless instrument as described in section 21a., the minimum sanction shall be expulsion if the student used the item with the intent to cause fear in or assault to another person.
 - **Mere possession of firearms, explosives, fireworks, incendiary devices, ammunition, other weapons, or instruments designed to look like any of the above will result in suspension unless mitigating factors are present.**
- **Note:** Students, faculty, and staff possessing valid Concealed Handgun Permits are allowed to carry concealed on campus in accordance with the law.
22. Theft, including but not limited to, possessing property known to be stolen, or taking property of another without consent, even with an intent to return the property.
23. Possessing, using, providing, **manufacturing, distributing, or selling** drugs or drug paraphernalia, or prescription drugs in violation of law or University policies

- If the violation occurs in Campus Village Apartments, a student who knew, or reasonably should have known, s/he was in the presence of illegal drugs or drug paraphernalia or prescription drugs is in violation of the code.
 - Attending classes or University functions while under the influence of drugs/illegal substances shall also be considered a violation of this Code.
 - **In the case of a student who is found responsible via the Student Code of Conduct process to have endangered the health, safety, or welfare of an individual through the provision of drugs, the minimum disciplinary sanction shall be suspension.**
- **Note:** *Although possession and use of marijuana for certain medical conditions consistent with the requirements of the Colorado Constitution is no longer a crime in the State of Colorado, the possession and use of marijuana remains illegal under federal law. Consistent with federal law, including the Controlled Substances Act and the Drug Free Schools and Communities Act, the use and/or possession of marijuana continues to be prohibited while a student is on campus, including while in campus housing.*
24. Possessing, using, providing, **manufacturing, distributing, or selling** alcoholic beverages in violation of law or University policies.
- If an undergrad student is in Campus Village Apartments, this prohibition includes a student who knew, or reasonably should have known s/he was in the presence of alcoholic beverages, or possessed, displayed, or was in the presence of alcohol containers.
 - Attending classes or University functions under the influence of alcohol shall also be considered a violation of this Code. This includes inappropriate alcohol related behavior at official University functions where alcohol is served.
 - **In the case of a student who is found responsible via the Student Code of Conduct process to have endangered the health, safety, or welfare of an individual through the provision of alcohol, the minimum disciplinary sanction shall be suspension.**
- *The health and safety of members of the University of Colorado at Denver are the primary concerns of the University. The University is committed to ensuring that students obtain timely medical assistance for themselves and for their peers. To this end, we have instituted a “Good Samaritan” Provision for drug, alcohol, an IPV related incidents. For more information about this provision please see Appendix 3.*

The complete Code of Conduct, including a detailed explanation of the conduct process and sanctions can be found online at: <http://www.ucdenver.edu/life/services/standards/Documents/CUDenver-CodeofConduct.pdf>

You can also visit the Office of Community Standards and Wellness in the Tivoli Student Union Room 227.

College of Architecture and Planning

Please click on the following to go right to that information:

[Graduate Programs](#)

[Departments and Programs](#)

[Computing in the College](#)

[Complete course list for the College of Architecture and Planning](#)

Dean

Mark Gelernter

Associate Dean of Academic Affairs

Michael Jenson

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Mailing Address

Campus Box 126

P.O. Box 173364

Denver, CO 80217-3364

Location

CU Denver Building

1250 14th Street, Suite 2000

Denver, CO 80202

[Overview](#)

The College of Architecture and Planning is the only college in Colorado offering a full range of degrees in the design and planning of the built environment, from undergraduate through accredited professional masters to doctorate. The college offers a new Bachelor of Science in Architecture degree and graduate programs for about 500 students. Programs are accredited by the Landscape Architectural Accreditation Board (LAAB), National Architectural Accrediting Board (NAAB) and Planning Accreditation Board (PAB). Many students intending to enter the design and planning professions complete the college's undergraduate degree as preparation for our graduate-level professional programs. Our graduate programs also are available for those who already hold an undergraduate degree in an unrelated field. Our graduate programs in architecture, landscape architecture, urban and regional planning, urban design and historic preservation, and our graduate certificates in design build and GIS, are taught at CU Denver, in the heart of a vital downtown. We offer a multidisciplinary PhD in design and planning as well. With a diverse faculty committed to excellence in teaching, research, scholarship and creative

work, the college provides students with a broad range of learning opportunities. We take full advantage of our status, aligning our programs with our special opportunities in Denver, and with our view of what students in our fields will need to flourish in the next few decades.

College Facilities

The college is located at 1250 14th Street in downtown Denver, on the northeastern edge of the Auraria Campus and across from Larimer Square. This favorable location gives easy access both to the extensive campus facilities and to the urban amenities of Denver's lively lower downtown. Most of the major professional design offices in Denver and many planning firms and agencies are within easy reach of the college. These provide opportunities for contact between students and practitioners. College facilities include studio spaces for students, lecture and seminar rooms, design jury spaces, exhibition spaces and faculty offices. Students have access to our well-equipped and well-maintained 3000-square-foot Design Fabrication Lab that houses a full scale furniture-making shop, model-making tools, a large spray booth and four laser cutters. The Visual Resource Center (VRC) is a student and faculty services center that provides access to a variety of photographic and audiovisual equipment, a portfolio photography studio room, and analog (35mm slides) and digital image collections. There is a computer laboratory whose focus is computer aided design (CAD), computer 2-D and 3-D imaging and analytic tools for planning. The computer lab includes Windows PCs and Macintoshes, small and large format scanners, large format plotters, laser printers and computer data projection devices. All systems are 100base T Ethernet / Internet savvy and accessible 24 hours a day in a secure room. Find more details about college facilities on the website. Also associated with the college is a geographic information systems (GIS) computer laboratory, which is open to all CU Denver students.

Computing in the College

The College of Architecture and Planning requires all incoming students to acquire and use their own computers and software applications in their studies. Please note that neither the College nor the University endorses or requires you to buy a computer from a particular vendor or manufacturer. In general, students widely use products like Microsoft Office for word processing, e-mail, presentations and spreadsheet applications. Consult with instructors or view course syllabi regarding specific software application (program) requirements for imaging, CAD, GIS, modeling or rendering before you buy them. Software requirements for incoming students in all master's programs are per department recommendation, and otherwise stipulated by course syllabus. For further information, consult the college website.

Graduate Programs

Learning Experiences

Learning experiences address real issues facing designers and planners as they create healthier, more sustainable, more meaningful environments. In recent years students have built award-winning, solar-powered homes; written new codes to encourage livelier, safer cities; discovered ecological design principles in Colorado ranches; proposed ways for neighborhoods to recover from natural disasters; designed learning landscapes for elementary school playgrounds; and

designed and built environmentally sustainable homes in the Navajo Nation. Our award-winning Design-Build Certificate Program takes students to Utah, Guatemala and on local non-profit projects. Students can earn a certificate from the Institute of Classical Architecture and Art, by taking focused courses in this area. There are extensive opportunities for civic engagement, including through paid internships at the college's Colorado Center for Community Development (CCCD) and Center of Preservation Research (CoPR).

Special Activities

The college provides a diverse range of opportunities that enrich and enhance the education of its students. Through activities and functions—including a lecture series, design juries, exhibits, publications and active student organizations—the college encourages contact among students, faculty and members of the design professions. The college is a leader in providing international study opportunities, with a dual Master of Landscape Architecture degree with Tongji University in Shanghai; an international urban design studio held each summer in China's Shanghai-Nanjing corridor or in Copenhagen, Denmark's rich urban setting; and collaborative design studios with Dar Al-Hekma College in Saudi Arabia. Recent study abroad courses have been in Italy, Guatemala, Thailand, Finland, and Denmark. In addition, for the past several summers the college has offered an integrated urban design studio in Turkey. The college makes available a range of scholarships and fellowships, some of which are based on need, others on performance and still others that are specifically intended to provide enrichment opportunities. The college supports an active and focused internship program for its students, giving them access to elective internship opportunities in the Denver metropolitan area and beyond. Finally, the college encourages students to take control of their own education and supports, within its ability, any reasonable proposals from students that would enrich their own educational experiences.

Scholarships/Financial Aid

Graduate students in the college have access to a number of scholarships and other financial assistance funds. Some of these funds are provided by the institution itself, while others are provided by external sources like the American Institute of Architects Architectural Education Foundation, the American Planning Association and the Associated Landscape Contractors of Colorado. For further information on scholarships and graduate tuition awards, visit the college's website. For information on federal and state financial aid, contact the Office of Financial Aid at the University of Colorado Denver or visit its website.

Admissions for Graduate Programs

Application Deadlines

For Fall Semester:

- Master of Architecture Program (MArch): January 15
- Master of Landscape Architecture Program (MLA): February 1
- Master of Urban and Regional Planning Program (MURP): January 15
- Master of Science in Historic Preservation Program (MSHP): Priority Deadline March 15

- Master of Urban Design Program (MUD): Priority Deadline March 15
- PhD in Design and Planning Program (PhD): February 1

Decision notification dates vary by program

For Spring Semester:

- We do not offer spring admissions for any graduate programs.

General Requirements

The college periodically updates admissions deadlines and application procedures. Please visit the college website to view current deadlines, application procedures and required materials.

Applicants to the College of Architecture and Planning graduate programs are required to submit the following credentials:

- University of Colorado Denver online application
- Official transcripts from each institution the applicant has attended excluding study abroad institutions where the courses are included on the home institution transcripts.
- A statement of purpose that addresses career objectives and reasons for pursuing the intended program of study.
- A portfolio of creative work – required for Architecture, Landscape Architecture and Urban Design. Suggested for Historic Preservation for students with prior design experience.
- A sample of writing or a work project – required for Urban and Regional Planning
- Three letters of recommendation
- Graduate Record Exam (GRE) scores are encouraged for the Urban and Regional Planning program
 - However, if you are applying to the Urban and Regional Planning program and your GPA is below 3.0, you must submit GRE scores
- Graduate Record Exam (GRE) scores are highly advised if your GPA is below 3.0 and you are applying for the Architecture, Landscape Architecture, Historic Preservation or Urban Design programs
- GRE scores are required for applicants to the PhD program.
- You must hold at least a bachelor's degree for admission to all professional master's programs. For admission to the Master of Urban Design program, a prior professional degree - normally the master's - is required in addition to a bachelor's degree.
- Application fee. Nonrefundable (\$50, U.S. residents; \$75, International applicants).
- English language proficiency scores are required for international applicants when English is not their first language. Please see International Admissions website for current minimum score requirements.

Confirmation Deposit

A nonrefundable confirmation deposit of \$200 is required to secure an applicant's place in the college. The deposit is due at the time the applicant accepts the program's offer of admission. The deposit will be applied to the first semester's tuition when the student registers for classes.

This deposit is in addition to the \$200 Registration Advanced Deposit that all students are required to pay to the Bursar's Office each semester before they register.

Academic Policies for Graduate Programs

Academic Standing

Students must maintain a minimum overall GPA of 3.0 in the graduate programs to remain in good standing and to graduate. If a student's GPA falls below a 3.0, then he or she will be placed on academic probation beginning the following semester. If the GPA remains below a 3.0 after the probationary semester, then he or she may be dismissed from the college.

Grade Appeals

Any student may appeal the grade he or she receives in a class within 30 days from the issuance of the grade. The student should first discuss the issue and adjustment sought with the relevant course instructor. If the course instructor does not reply within 30 days, the student submits a written appeal to the department chair. Within 30 days, the department chair shall process the appeal and prepare a written report explaining the reason(s) for the department recommendation. If the grade appeal still remains unresolved at the department level, the student submits a written request to the associate dean of academic affairs, who will direct the Academic Affairs Committee to review the appeal. If the grade appeal remains unresolved at the college level, the student may appeal to the dean.

Attendance and Timeliness of Work

Students are expected to attend all meetings of classes. Excessive unexcused absences may result in a grade reduction at the discretion of the instructor. Absence from a class will be excused for verified medical reasons, religious obligations or for extreme personal emergencies. The student may be required to furnish evidence.

Students' assignments are to be completed in a timely manner. Any assignment turned in late may have its grade reduced by an amount set at the discretion of the instructor. An assignment may be turned in late without penalty for verified medical reasons, religious obligations or for extreme personal emergencies. Students must have their instructor's written permission to turn an assignment in late. Students with excused late work may turn in the assignment by the end of finals week without penalty. Otherwise, the grade "I" will be assigned at the discretion of the faculty.

Course Sequencing and Advancement

Programs in the college are structured so that certain courses must be taken concurrently, others sequentially. Students will not be allowed to enroll in a course if its co-requisites or prerequisites have not been satisfied.

Originality of Work

Students must submit their own work. Where other sources are used in a student submission, they are to be clearly identified and referenced. The university considers plagiarism and similar acts of falsification to be a serious matter that may result in suspension or expulsion. Information on codes of conduct and grievance procedures are available from the university's Office of Community Standards and Wellness.

Retention of Student Work

The College of Architecture and Planning may, with a student's written permission, retain student work submitted in fulfillment of class requirements for a period of time. This retained work is normally used to provide accrediting agencies with tangible evidence of performance, to serve as additional visual aid material in presentations to other students and to contribute to possible educational exhibits requested by the university community and the general public.

College of Architecture and Planning Courses

Click [here](#) to see a complete list of courses.

Departments and Programs

Programs

Certificate

- [Design Build Graduate Certificate](#)
- [Geospatial Information Science Graduate Certificate](#)

Master of Science

- [Historic Preservation MS](#)

Master of Urban Design

- [Urban Design MUD](#)

Doctor of Philosophy

- [Design and Planning PhD](#)

Architecture

[Go to information for Architecture.](#)

Programs

Master of Architecture

- [Architecture MArch](#)

Landscape Architecture

[Go to information for Landscape Architecture.](#)

Programs

Master of Landscape Architecture

- [Landscape Architecture MLA](#)

Urban and Regional Planning

[Go to information for Urban and Regional Planning.](#)

Programs

Master of Urban and Regional Planning

- [Urban and Regional Planning MURP](#)

College of Arts & Media

Click on any of the following to go right to that information:

- [CAM Contact Info](#)
- [Art Changing Lives](#)
- [College Values](#)
- [Programs](#)
- [Facilities](#)
- [Scholarship Opportunities](#)
- [CAM General Academic Policies](#)
- [Course List](#)

Interim Dean: Laura Goodwin, Ph.D.

Associate Dean, Academic and Student Affairs: Joann Brennan

Assistant Dean, Budget and Administrative Services: Katherine Kilpatrick

Contact

Dean's Office / Office of Advising and Student Services

Physical Location:

Arts Building, Suite 177

1150 10th Street

303-556-2279
Fax: 303-556-2335

Mailing Address:

College of Arts & Media
Campus Box 162
P.O. Box 173364
Denver, CO 80217-3364

“Art Changing Lives”

Mission: The College of Arts & Media (CAM) exists at the intersection of art, technology and commerce, and as such, faculty and students use powerful art making, expansive teaching/learning and strategic service to connect deeply with the arts disciplines and the creative industries —as these currently exist and as they might become.

At the College of Arts & Media, we view the arts as central in enabling people to express and know themselves and understand the world around them. We attract students from the Denver area as well as from across the country and around the world. Our students pursue individualized goals, such as seeking a first degree, making a career change or enriching personal growth. Our faculty bring both professional experience and artistic excellence to the classroom. Through connections and workshops with arts professionals and internships, CAM students are able to explore their chosen professions. CAM develops and maintains cooperative relationships with civic groups, regional arts agencies, museums, galleries, performance venues, public schools, community colleges, professional societies and the business community. The College of Arts & Media is committed to expanding its international presence.

College Values

Experimentation and Innovation
Excellence and Professionalism
Community
Creative Research and Scholarship
Leadership
Entrepreneurship
Technological Innovation
Critical Thinking
Diversity, Accessibility and Equity
Intellectual Freedom and Artistic Integrity
Sustainability
Civic Engagement
Experiential Learning
Social Responsibility

Programs

CAM's [Department of Music and Entertainment Industry Studies](#) offers a master of science in recording arts (MSRA) with emphases in recording arts and media forensics. For details on program requirements, admissions, application deadlines and policies, please see the [Recording Arts](#) page or the [Media Forensics](#) page in this catalog.

CAM also offers a wide range of undergraduate degrees through its MEIS Department, as well as the [Department of Theatre, Film and Video Production](#) and the [Department of Visual Arts](#). Please see the **Undergraduate Catalog** or contact CAMadvising@ucdenver.edu for more information.

Faculty in CAM design their courses with explicit learning outcomes that define knowledge (what students will know) and skills (what students will be able to do). Dispositional outcomes that describe how students will be changed are often included. Sequentially-designed courses enable the scaffolding of knowledge, skills and dispositions while supporting CAM students to engage in art-making of consequence, creative innovations, new technologies, and building connections to creative industries. Our faculty infuse real-world knowledge in the classroom and create opportunities for students to develop an understanding of how their own art-making and scholarly pursuits impact others. Opportunities to engage with arts professionals, attend lectures and workshops by visiting artists, work in the creative industries through internships and participate in other exciting activities help students connect their learning to careers in the arts.

Recording Arts and Media Forensics Facilities

- Five recording studios
 - Three studios include Surround Sound capabilities
 - All studios are ProTools HD equipped
- Large inventory of microphones and outboard equipment available
- Vintage keys collection which includes DX-7, ARP Odyssey, ARP 2600, MiniMoog, PolyMoog, D-10, YC-30, B3 and Rhodes
- MIDI lab featuring ProTools, Logic and Ableton; supplemental access to three College of Arts & Media computer labs
- Consoles include SSL AWS 924, Yamaha DM2000, DigiDesign Control 24 and Mackie 32x8 Bus, and Avid Artist Control surface
- Workstations include ProTools, LogicPro and others for mastering, sequencing and synthesis applications
- 16-station piano lab featuring Apple Macintosh iMac computers with a wide selection of musical and songwriting/composition software applications
- Audio/video forensics labs at the National Center for Media Forensics
 - Computer lab featuring multimedia analysis and processing software such as Cognitech, Ocean Systems, DAC, Agnitio and MATLAB
 - Security DVR and Camera Lab
 - Digital Evidence Lab featuring EnCase and Cellebrite hardware/software systems
 - Graduate student workstations accessible from anywhere in the world via Remote Desktop Connection

- Network on ENF (Electric Network Frequency) databases around the US

Scholarship Opportunities

Students are encouraged to review scholarship opportunities provided by CAM and the university through the university's Scholarship Resource Office. Visit the [Tuition/Financial Aid](#) page in this catalog for more information.

CAM General Academic Policies

Please see the [Office of the Registrar](#) and the [University Policies](#) pages of this catalog for academic policies that apply to all students at the university. The policies that follow apply specifically to graduate students in the College of Arts & Media. Contact CAMadvising@ucdenver.edu with any questions about these or other college/university policies.

Students must also follow the policies outlined in the Graduate School Rules. Contact CAMadvising@ucdenver.edu for information on how to access these rules.

Adding/Dropping Courses After Census

Students wishing to add or drop a full-term course after the semester add/drop deadline (Census) must submit a petition to the College of Arts & Media. Contact CAMadvising@ucdenver.edu for petition guidelines.

Grade Appeals

When a CAM student has questions or concerns regarding academic issues such as project grades, final grades, attendance policies, etc., the student is encouraged to speak directly with the faculty member teaching the course. If resolution or clarity of understanding is not reached, the following procedure should be followed:

- The student contacts the department chair to discuss the concerns and his/her point of view.
- The department chair speaks with the faculty member to ascertain the faculty member's point of view.
- The department chair facilitates a meeting between the student and faculty member to discuss the issue.
- If the student still has concerns after completion of these procedures, the student should contact the CAM Associate Dean of Academic and Student Affairs.

Incompletes

The College of Arts & Media has strict policies for granting incomplete grades. They include but are not limited to the following:

- Reason for incomplete must be a verifiable circumstance beyond the student's control that made completion of the course impossible
- The majority of course requirements (75 percent) must have been completed with a passing grade to be eligible for incomplete (B [3.0] for courses toward recording arts; B- [2.7] for courses toward media forensics)
- CAM course completion agreement must be signed by both the instructor and student, with final approval by the associate dean
- All course work must be completed within one calendar year of the end of the original course
- Requests for a retroactive change from a letter grade to an incomplete will not be considered

The student is responsible for requesting an incomplete grade and submitting all of the appropriate paperwork and obtaining approvals. Please contact CAMadvising@ucdenver.edu for additional information.

Curricular Changes and Course Substitutions

Graduate students fall under the degree requirements that were in place when they first enrolled in their programs. If a program revises its curriculum, students have the option of following their original degree requirements or the revised curriculum. Courses under the original requirements may no longer be taught or may not be available for a set duration. In this case, the department will approve course substitutions.

Course substitutions in the graduate degree must be approved by the designated area head in the specific program area, the department chair and/or possibly the associate dean. Please contact CAMadvising@ucdenver.edu for additional information.

Applying to Graduate

Students expecting to graduate are required to apply to graduate via UCD Access by the published deadline. Students who do not apply by the deadline must apply to graduate for the following semester.

Applications will be accepted from the first day of the student's registration for the semester in which the student plans to graduate through Census Date (the drop/add deadline) of the semester. Applications are due by 5 p.m. on census date of the semester in which the student is applying to graduate as noted in the published academic calendar. Students are encouraged to meet with an MEIS Department advisor the semester before they intend to graduate to review graduation procedures and degree requirements.

Students who have not attended the university for one calendar year or more must gain readmission to the university prior to applying for graduation. It is the student's responsibility to apply with enough time for the readmission process to be finalized by the census date.

Academic Policies Committee

The CAM Academic Policies Committee is the appellate committee for all student-related academic petitions, issues and appeals. The committee is responsible for the evaluation and interpretation of the approved academic policies of the college. Questions about interpretation of policies may be directed to the Office of Advising and Student Services. Procedures and petition guidelines are available at the CAM Web site or by emailing CAMadvising@ucdenver.edu.

College of Arts and Media Courses

Click [here](#) to see a complete list of courses.

Business School

Please click on any of the following to go right to that information:

- [General Academic Policies](#)
- [Academic Programs](#)
- [Graduate Business Programs \(MBA/MS/PhD\)](#)
- [Master of Business Administration Programs](#)
- [Master of Science Programs](#)
- [Dual Degree Programs](#)
- [PhD CSIS Programs](#)
- [Executive Programs](#)
- [Programs](#)
- [Courses](#)

Dean: Sueann Ambron

Associate Dean of Programs: Dawn Gregg

Associate Dean of Faculty: Clifford E. Young

Associate Dean of Operations: Jean-Claude Bosch

Assistant Dean Programs: Linda J. Brooker

Assistant Dean Budget: M. Judy Chavez

Contacts

Dean's Office

Business School Building

1475 Lawrence Street

Denver, CO 80202

303-315-8000

Fax: 303-315-8040

Mailing Address

The Business School
Campus Box 165
P.O. Box 173364
Denver, CO 80217-3364

Website: <http://business.ucdenver.edu>

Admissions/Advising

Undergraduate: 303-315-8100
Graduate: 303-315-8200

Application Deadlines**Graduate**

Fall— Domestic applications April 15
International applications March 15
Spring—Domestic applications October 15
International applications September 15

Summer—Domestic applications February 15
International applications January 15

Applications received after these dates may not be eligible for scholarships.

Executive MBA

Fall—June 1

11-Month MBA

Fall—June 15

Located in the heart of the Rocky Mountain business community, the Business School at the University of Colorado Denver prepares students with the knowledge and skills necessary to become effective, responsible business professionals. We're able to achieve a standard of excellence by bringing together nationally recognized faculty and highly motivated, mature students in an intellectually challenging academic environment. CU Denver's Business School is a research institution. Because our faculty are nationally recognized for scholarly research as well as for their teaching skills, our students have the opportunity to be on the leading edge of business management theory and practice. Our class schedules and curriculum offer flexibility to meet your needs whether you plan to attend full or part time, day or evening. Whether you're an experienced working professional seeking an advanced degree or preparing for a new career in the business world, you'll gain the knowledge and perspective necessary to succeed in today's challenging business environment.

Educational Goals

The Business School is committed to superb teaching, connecting theory to practice that focuses on:

- current and relevant knowledge and skills necessary for success in the highly competitive global business environment
- experience in cooperative and team-based work skills
- integrated professional and functional expertise
- sensitivity to cultural and ethnic diversity

Our graduate programs serve both traditional and nontraditional students who have extensive work experience. The MBA serves the needs of students who desire a general business education. The professionally oriented MS degrees serve the needs of students who desire greater specialization, particularly students who have already obtained an undergraduate business degree. Large numbers of our graduate students will be drawn from national and international locales.

Our undergraduate program, which serves both traditional and nontraditional students, leads to a baccalaureate degree in business with a liberal arts component. The program is closely linked, through articulation agreements, to lower-division programs offered by Colorado's four-year and community colleges.

Key elements of our academic programs are the provision of top-quality career advising and placement services, as well as flexible schedules and programs to meet a wide range of student needs. We are committed to assisting our students' efforts to pursue rewarding careers.

Faculty

Our nationally recognized faculty members are vigorous and enthusiastic about teaching and research. Faculty members hold degrees from the nation's leading business schools, including Berkeley, Harvard, Stanford, University of Chicago, University of Pennsylvania, UCLA and Yale. Many of them also bring years of valuable experience in private industry. Their interdisciplinary expertise, academic achievements, scholarly research and business experience provide students with a dynamic learning environment.

Scholarships and Financial Aid

Many programs for financial aid are administered by the [Office of Financial Aid](#) . Call 303-556-2886 for detailed information.

Thanks to the generous support of the Colorado business community and others, the Business School has a significant number of scholarships to offer its students. Scholarships are awarded on the basis of merit and/or financial need. The amount of the award and the number of awards available vary.

Over 30 different scholarships are available to eligible Business School students, with multiple awards from most scholarships.

Further information about these scholarships, including eligibility criteria and application forms, may be obtained by visiting the [Scholarship Resource Office](#) website, by calling 303-252-3608, or by viewing scholarship information on the [Business School website](#).

Study Abroad

Transfer credit from study abroad programs requires prior written approval from the Assistant Dean. Students must meet with a business staff advisor to determine course acceptability prior to the semester in which they intend to study abroad. Information on the various programs is available at the [Office of International Affairs](#).

Institute for International Business

The Institute for International Business (IIB) was created in 1988 by the Board of Regents of the University of Colorado to serve as a center for the advanced study and teaching of international business. In 1993, the institute was designated a Center for International Business Education and Research by the U.S. Department of Education, one of only 25 such centers of excellence in the United States. Through the CIBER and other funding sources, the institute strives to help the faculties of the Business School and other university departments to internationalize curriculum, programs, certificates or other student-oriented endeavors. The IIB works in other ways to support faculty in their teaching, research and development activities. In addition, the institute designs and facilitates customized international programs and training for business, cooperates with other organizations to offer seminars and conferences and publishes a quarterly newsletter to familiarize the Denver and regional communities with international business issues. Such initiatives help faculty, students and the business community to acquire the skills and expertise needed to be successful in our increasingly global economy. The institute also conducts and promotes research on the global economic aspects of competitiveness. Call 303-315-8436 for information.

General Academic Policies

Academic policies that apply to all students at CU Denver are described in the Office of the Registrar website and in the [Registration and Records](#) and [University Policies](#) sections of the catalog. The policies outlined on the following pages are relevant for both undergraduate and graduate students in the Business School. Individual policies appropriate only to undergraduate or graduate students are described under separate headings. Each student is responsible for knowing and complying with the academic policies and regulations established for the school. The school cannot assume responsibility for problems resulting from a student's failure to follow the policies stated in this catalog. Similarly, students are responsible for all deadlines, rules and regulations stated on the student portal.

Academic Ethics

Students are expected to conduct themselves in accordance with the highest standards of honesty and integrity. Cheating, plagiarism, illegitimate possession and disposition of examinations, alteration, forgery, falsification of official records and similar acts or any attempt to engage in such acts are grounds for suspension or expulsion from the university. In particular, students are advised that plagiarism consists of any act involving the offering of the work of someone else as the student's own. It is recommended that students consult with the instructors as to the proper preparation of reports, papers, etc., to avoid this and similar offenses. Also, actions that disrupt the administrative process, such as misrepresentation of credentials or academic status, other forms of deception or verbal abuse of university staff are grounds for suspension or probation. All discovered acts of dishonesty must be referred to the Business School's Internal Affairs Committee.

Admission to Business Classes

Enrollment in business classes is limited to students who have been admitted to business degree programs and to other students as described in the separate undergraduate and graduate policy sections. The course registration criteria are designed to meet a number of objectives:

- to assure access to business courses for students admitted into a business degree program
- to serve students in other colleges who have business-related education objectives or requirements
- to serve nondegree students who have specific career or education goals

Refer to the [student portal](#) each term for course availability and prerequisites.

Attendance Regulations

Students are required to attend classes, including online classes, on a regular basis. Absences must be arranged with the instructor and must conform with university and instructor policies on attendance.

Prerequisites

Students are expected to know and fulfill all prerequisites when registering. Prerequisites are in place for the benefit of the student. The Business School wants our students to have the best experience in their courses, and having the prerequisites for a course ensures that you are ready for the material that will be covered. See course listings for relevant prerequisites as many are strictly enforced. The Business School reserves the right to administratively drop students who enroll without the correct prerequisites. This action may result in the loss of tuition.

Course Numbering

The course numbering system used at CU Denver identifies the class standing required for enrollment. Students are expected to take 1000-level courses in their freshman year, 2000-level

courses in their sophomore year, 3000-level courses in their junior year and 4000-level courses in their senior year. Courses at the 5000 and 6000 level are restricted to master's-level business students, and courses at the 7000 level are restricted to PhD students.

Adding Courses

While students may add courses to their original schedule through the census date (first 12 days of the fall or spring semester, first eight days of summer session), instructor approval is required to add a business school course after the first week of classes. In some cases, instructors do not allow students to add their course if the student fails to attend the first week of classes. In addition, instructors may ask that a student be administratively dropped from the course for failure to attend the first week of classes.

Dropping Courses

Students may drop a course through the census date and it will not appear on the transcript. After census, a student who wishes to drop must obtain written approval from both the instructor and assistant dean or designate. The course and a grade of *W* will appear on the transcript. In order to drop beyond the 10th week, it will also be necessary to document circumstances beyond a student's control. Any student who is failing a class will not be allowed to drop simply because of the grade, and an *F* will be recorded on the transcript. See the [academic calendar](#) for deadlines and costs involved.

Withdrawal

See the [Office of the Registrar](#) chapter of the catalog and website for university-wide withdrawal policies. Note that the Business School normally requires instructors' signatures on withdrawal forms before the academic assistant dean's approval is granted. If an undergraduate student is dropping all classes in a particular semester, the student must complete part II of the Schedule Adjustment Form and submit to the undergraduate program director and financial aid (if receiving financial aid) for signatures. If a graduate student is dropping all classes in a particular semester, the student must complete part II of the Schedule Adjustment Form and submit to the academic assistant dean and financial aid (if receiving financial aid) for signatures.

Administrative Drop

The school reserves the right to administratively drop students who are incorrectly enrolled in business courses. Instructors also may recommend that students who fail to meet expected course attendance or course prerequisites be dropped from the course. While we do our best to administratively drop students prior to the census date to avoid tuition charges, time may not always allow for that timeline and tuition charges may apply.

In some cases, failure to attend the first week of classes may result in an administrative drop from that course.

Note that students who never attend class are not automatically dropped from the course. The student is responsible for dropping courses and failure to do so will result in a tuition charge for the class and an “F” grade.

Appeal Procedure

Students should contact a staff advisor in the Business School’s programs office (303-315-8200 for graduate students and 303-315-8100 for undergraduate students) for appeal and petition procedures pertaining to rules and regulations of the school.

Grade Appeal Procedure

Students must follow the process below. .

- If the issue is not resolved after a conversation with the faculty member, discuss concerns with the Department Chair.
- If the issue is not resolved after a conversation with the Department Chair, discuss concerns with the Associate Dean.

Neither the Dean, nor any director, will offer an opinion with respect to the qualitative assessment of a student’s work, but, may consider whether the procedures used to determine a grade were consistent with the syllabus and written amendments to the syllabus. No passing grade will be changed after one year. Requests for grade adjustments/appeals must be made in the semester immediately following the semester in which the disputed grade was earned.

General Grading Policies

Plus/Minus Grading. Faculty have the option to use plus/minus grading.

Incomplete Grades. The only incomplete grade given in the school is an *I*. An *I* grade is assigned only when documented circumstances clearly beyond the student’s control prevent completion of course requirements (exams, papers, etc.). Students must sign a contract outlining how they will make up the missing work with the instructor giving the *I*. If an *I* is assigned, students do not register for the course a second time. Instead they work with the faculty member to make up the remaining requirements. All *I* grades must be made up within the contract period (which may not exceed one year), or the *I* will automatically be changed to the grade of *F*.

The student is responsible for contacting the instructor to schedule the completion of the coursework.

Grade Changes. Grades as reported by instructors are final. Grade changes will be considered only in cases of documented clerical errors or when a student is making up an incomplete grade (*I*). All changes must be made within one year after the course has been taken, unless highly unusual circumstances can be documented and the change has been approved by the school.

Pass-Fail or No Credit (Audit). With the exception of internships, experiential learning and travel study courses, the Business School does not permit election of pass-fail grading for any

business course required for the student's degree. Students are not allowed to audit business courses.

Academic Programs

A carefully designed curriculum to prepare students for success in business administration is available for the student seeking either an undergraduate or graduate degree. The school offers courses leading to the bachelor of science in business administration (BS), master of business administration (MBA), the master of science (MS) and doctor of philosophy (PhD) degrees.

It is possible to pursue two graduate degrees simultaneously, such as an MBA and an MS, or two MS degrees, through our [dual degree programs](#). In addition to the programs in the Business School itself, we partner with other university departments to offer dual programs in MS finance and risk management/economics and the MBA in combination with graduate programs in architecture, bioengineering, economics, political science, urban planning and the MD. We also have a joint MBA/MS in international management degree with the Thunderbird School of Global Management in Glendale, Arizona.

Graduate Business Programs (MBA/MS/PhD)

Associate Dean: Dawn Gregg

Assistant Dean: Linda Brooker

Telephone: 303-315-8200

Fax: 303-315-8199

E-mail: grad.business@ucdenver.edu

The Business School offers programs leading to a doctor of philosophy, the master of business administration and the master of science in specific fields of business and health administration. In addition, the master of business administration for executives (executive MBA) is offered as a multi campus program of the University of Colorado business schools, and the executive program in health administration (executive MBA/HA) is offered through the executive health network.

The PhD, MBA, executive MBA, MS and BS degrees in business are accredited by AACSB International, the Association to Advance Collegiate Schools of Business. The health administration MBA and MS degrees are also accredited by the Commission on Accreditation of Healthcare Management Education (CAHME). In addition, the accounting programs have earned a separate AACSB International accreditation.

For a list of graduate business programs, see [Program Curricula](#) below.

Requirements for Admission to the MBA and MS Programs

Admissions/Advising

Persons contemplating graduate study are encouraged to learn about admission and program requirements by scheduling an appointment with a graduate advisor or attending one of the regularly scheduled prospective student information meetings. Call 303-315-8200 to schedule an appointment.

Admission to the graduate programs in business is granted only to students showing high promise of success in graduate business study. Admission is based on the following indicators of the candidate's likelihood to succeed in the program.

Academic Record

The bachelor's degree must be earned from a regionally accredited university. The total academic record is considered, including the GPA, the course of study, and the quality of the program.

Required Testing

The GMAT or GRE is required for admission consideration for any applicant who does not have a previously awarded master's degree. The GMAT or GRE is administered at numerous centers throughout the world. For information and to register for the test, write to: GMAT/GRE, Educational Testing Service, CN 6103, Princeton, NJ 08541; or phone 1-800-GMATNOW; or visit www.mba.com. The code numbers for CU Denver's graduate business programs are as follows:

MBA: MPB-OG-78
11-Month MBA: MPB-OG-65
MS: MPB-OG-75
PhD: MPB-OG-29

GMAT is required for the 11-Month MBA and preferred for *all* the graduate business programs. Students may petition to have a GRE score reviewed for any of the graduate degree programs, but the decision to accept the GRE is on a case by case basis. If you have not taken either the GMAT or the GRE, we strongly recommend the GMAT. Other graduate admission exams such as the MCAT and LSAT may also be considered, but, some programs will not accept either. See individual program information for specifics. The MS in business analytics program does not accept the LSAT or MCAT in place of the GMAT or GRE without extensive verifiable evidence of the student's prior mathematical preparation and coursework. For more detailed information on admissions requirements, phone the graduate programs office 303-315-8200 or email them at: grad.business@ucdenver.edu.

Work Experience

While we do not require work experience, a record of appropriate employment at increasing levels of responsibility is considered a positive indicator of the likelihood of successful completion of graduate work. A resume must be submitted with the application materials.

Background Requirements

Students applying for graduate programs in business ***do not need an undergraduate degree in business***. The MBA program is specifically designed so that the required courses cover the material needed for completion of the degree. There are no prerequisites needed to start the MBA program. Students with non-business backgrounds have completed the program successfully. Applicants for the MS degrees, however, may be required to take background or common body of knowledge business courses, depending on the individual's academic background. For more detailed information on which background courses may be needed refer to the individual program information in this catalog or on our website, or phone the graduate programs office to schedule an appointment with a graduate academic advisor, 303-315-8200 or email the advisors at: grad.advising@ucdenver.edu.

It is expected that students have an adequate level of personal computer proficiency in a word processing and spreadsheet software, as well as a good working knowledge of basic algebra and English grammar.

Letters of Recommendation

Some programs require letters of recommendation while others do not. Please see individual graduate program details for specifics.

The Admission Process

Mailing address for applications:

Graduate Admissions
The Business School
University of Colorado Denver
Campus Box 165, P.O. Box 173364
Denver, CO 80217-3364

Students seeking admission to the 11-Month MBA, MBA with an emphasis in health administration, MS in health administration or executive programs should consult with the relevant catalog sections for additional application criteria or requirements.

Domestic Application Requirements

- Complete parts I and II of the application for graduate admission and the four essay questions.
- Have required GMAT or GRE scores sent directly to the graduate business admissions office from the Educational Testing Service. The code for CU Denver's graduate business programs are as follows:

MBA: MPB-OG-78
11-Month MBA: MPB-OG-65
MS: MPB-OG-75
PhD: MPB-OG-29

- Have two official transcripts (not student copies) mailed directly from each school, college, and university ever attended past high school. Transcripts must be sent even if credit course work completed was not part of a degree program or was taken after an undergraduate degree was earned.
- Resumé
- Enclose a check for \$50 for the MBA, MS or PhD programs, or \$80 for the dual MBA/MS or dual MS/MS, made payable to the University of Colorado. Personal interviews are not required, except for the 11-month MBA and the MBA and MS in health administration. You will be contacted to schedule the interview.

Deadlines. To be considered for admission, applicants for graduate programs must submit all materials prior to the following dates:

Fall— Domestic applications April 15
International applications March 15
Spring— Domestic applications October 15
International applications September 15

Summer— Domestic applications February 15
International applications January 15

The 11-Month MBA option only admits students each fall. The application deadline for the 11-Month MBA is June 15.

Early applications are encouraged because, if admitted, the student receives priority for registration time assignment. Applications received after published deadlines with complete supporting documentation, scores, fees and transcripts will be considered; however, those students may not meet scholarship deadlines and in some cases, course availability is limited for the later applicants.

International Application Requirements

See [Information for International Students](#) .

Academic Policies for Graduate Students

Advising

As soon as possible, after being admitted, students should schedule an appointment with a graduate advisor to discuss general degree requirements and determine if any background course work may be required and/or what common body of knowledge business courses or prerequisites

might be waived for the MS degrees. Call 303-315-8200 to schedule an appointment or email them at grad.advising@ucdenver.edu.

Degree Plan

All students are encouraged to meet with a graduate advisor during their first semester to review their degree plan. Students are also encouraged to meet with a graduate advisor throughout their program to ensure the correct sequencing of courses. In order to ensure that registration runs smoothly, an advising hold will be placed on newly admitted students in our MS in accounting, MS in health administration, MBA in health administration and MS in information systems programs. Those student must schedule a time to meet with an advisor prior to registration in their first semester. Call 303.315.8200 to schedule an appointment.

Course Load

The normal course load for full-time graduate students is 9–12 semester hours. However, because many students are also pursuing a career, it is possible to attend classes on a part-time basis by enrolling in 3–6 semester hours. For financial aid purposes, 5 semester hours of graduate study is considered full time during the fall and spring terms and 3 semester hours for the summer term. Graduate courses are scheduled primarily in the evening or online to accommodate work schedules. Students wishing to take more than 12 credits in one semester must get approval from the assistant dean. Contact grad.advising@ucdenver.edu for details.

Transfer of Credit

Upon approval of the program specific director, a maximum of 12 semester hours of graduate business course work may be transferred to the MBA and 9 semester hours for the MS degrees (9 semester hours for each the MBA and MS degree for a dual MBA/MS degree program). Note: for the MS in business analytics only 6 semester hours may be transferred into the program. Courses must have been taken from another AACSB accredited graduate school of business or one of the top 200 universities in the country and courses must have been completed within the last five years with a grade of at least B (not B-). No transfer courses will be accepted if they have been used to satisfy degree requirements of a previously awarded degree. Graduate business courses taken at other University of Colorado Business Schools are considered transfer hours and are included in the transfer limit. Transfer of quarter hours of graduate business credit may satisfy a course requirement, but may not satisfy the total number of hours requirement. One quarter hour equals .667 semester hour.

Transfer to Another Business School Program

Because admission standards *vary* between degree programs, students who wish to transfer from one CU Denver Business School degree program to a different Business School degree program must meet the admissions standards for the program they wish to apply. There are no automatic transfers between programs and admission into one program does not guarantee admission into another program. Also, graduation from one program does not guarantee admission into another program because the admissions standards vary between programs.

Time Limits

Master's students are required to complete all degree requirements within five years and one semester (seven years and one semester to earn dual MBA/MS or MS/MS degrees, or a PhD). Courses completed outside of these time limits will not be accepted toward the degree without an approved petition. Time-limit extensions are given only for external situations that restrict a student's ability to complete the program in a timely manner. If you do not take graduate business courses for more than three consecutive semesters, you will need to reapply for admission and meet the admission standards in place for the new application term. At the time of re-admission your time limit will also be evaluated to determine which courses may meet the time limits listed above.

Former Students

Any Denver campus graduate student who has not been enrolled in his or her admitted program of study for three consecutive semesters (summers included) is considered a former student and must reapply for admission to the program by submitting part I of the application for graduate admission, in-state tuition classification form, along with the applicable fee. Readmitted students must conform to degree requirements in effect during the term in which they are readmitted. If the new requirements differ significantly from the former degree plan, a petition may be submitted requesting exceptions.

Graduation

Students must complete the online intent to graduate form on the Registrar's website (www.ucdenver.edu/registrar) when they register for their last semester. Contact the graduate advising office with questions at grad.advising@ucdenver.edu.

Grade Point Average Requirements

A minimum cumulative graduate business GPA of 3.0 must be achieved and maintained for courses taken toward a graduate business degree. All CU Denver graduate business courses, regardless if the coursework pertains to the current degree and including courses taken as a graduate non-degree seeking business student, are computed in the graduate business cumulative GPA. Transfer hours and grades from other institutions and/or from University of Colorado courses taken on the Boulder Campus, Colorado Springs Campus, or the Anschutz Medical Campus, are not computed in the business GPA. However, degree credit may be awarded for those transfer courses through a petition process. If the required cumulative GPA does not meet the minimum requirement of 3.0 or higher when degree requirements have been met, the Business School cannot confer the degree. Note: students may not take extra courses for the sole purpose of improving their cumulative GPA.

Probation and Suspension

If after completing 9 semester hours a student's cumulative graduate business GPA falls below 3.0, the student will be placed on academic probation and given three semesters (one calendar

year) or 9 semester hours of graduate business course work (whichever occurs first) in which to achieve the required 3.0 cumulative average. If the student achieves that required cumulative GPA, they are cleared from probation and can continue their studies with us. Failure to achieve the required GPA within the allotted time period may result in suspension for one year. Suspended students may not attend any campus of the University of Colorado including continuing education/extended studies. Students on suspension may petition for readmission to the school after waiting a minimum of one year from the term in which they were suspended. Any suspended student readmitted to the school will be placed on continued probation status to monitor required progress. To be considered for readmission, a petition form plus a new graduate application part I and in-state tuition classification form must be submitted along with the appropriate fee. Generally, petitions are granted only on rare occasions. Re-admitted students must meet any new admission requirements that may be in place. In addition, if a student cannot mathematically achieve the required 3.0 cumulative GPA with the remaining required courses, the petition to return will not be approved. Students may not take additional courses for the sole purpose of increasing their cumulative GPA.

Passing Grades

Any grade below a *C* (2.0) is a failing grade for graduate students (*C* is passing; *C-*, *D+*, *D*, *D-* and *F* are failing). Graduate students must repeat a required course for which they have received a grade below a *C*. Both the original grade and the grade for the repeated course count in the computation of the business GPA. If a grade lower than a *C* is earned in an elective course, the student may repeat that course or select another course. NOTE: *C* is passing, *C-*, *D+*, *D*, *D-* and *F* are failing.

Repeating Graduate Business Courses

A failed course (any grade below a *C* such as *C-*, *D+*, *D*, *D-* or *F*) must be repeated if it is a required course. Both the original and the repeated grade will remain on the student's transcript and both grades will be calculated into the student's cumulative GPA. A course in which a grade of *C* or better is obtained may not be repeated. Graduate business courses repeated without approval may not be used in the graduate business GPA calculation.

Drop/Withdrawal

Classes dropped prior to census date will not appear on the transcript. Thereafter, to drop after census date, with a grade of *W*, a student must be earning a grade of *C* or better; otherwise, an *F* will appear on the transcript. Students will not be permitted to drop a course or withdraw from all courses after the 10th week of the semester, unless circumstances outside the student's control are documented. The late request to drop or withdraw must be approved by the assistant dean and the course instructor(s).

Registration for Graduate Business Courses

Students admitted to graduate business degree programs have priority for graduate business course registration. Nondegree students and graduate students from other University of Colorado

schools or colleges may be permitted to attend on a space-available basis by meeting the qualifications and submitting a nondegree application form. (See the college website for the form.) Some graduate-level (6000-level) courses may be offered simultaneously with undergraduate 4000-level courses. However most 6000-level courses are reserved exclusively for graduate business students.

Master of Business Administration Programs

The master of business administration (MBA) program provides a general background in management and administration. This background enables the student to have the breadth of exposure and depth of knowledge required for an advanced-level management career. The program is devoted to developing the concepts, analytical tools and communication skills required for competent and responsible administration of an enterprise viewed in its entirety, within its social, political and economic environment.

The professional MBA program allows the scheduling of classes with maximum flexibility so students can progress through the program at their own pace, by taking as little as one class per semester or as many as five classes per semester, at times that are convenient to their work schedule. The program can be completed in as little as 16 months or as long as five years plus one semester.

Online courses add additional flexibility. Students may complete all degree requirements online, or combine online and campus courses to broaden the choice of electives or to fit a business travel schedule or personal learning style. All the core courses are offered online in the fall and spring terms, with limited online offerings in the summer semester. Your choice of online electives is limited.

The MBA program is also available in different configurations: 11-Month (full time, see relevant section), health administration and the executive MBA (see relevant section). All MBAs have the same curriculum requirements; they differ only in their focus, the choice of electives, the flexibility of course scheduling and the time required to complete the program. The 11-Month and executive MBAs are lockstep programs (no open electives, no specialized tracks), where all the students complete all program requirements together. No course transfers, waivers or substitutions are permitted in the lockstep programs.

For a list of MBA programs, see [Program Curricula](#) below.

Master of Science Programs

Master of science degrees (MS) are offered in the fields of accounting, business analytics, finance and risk management, global energy management, health administration, information systems, international business, management and marketing.

The MS degree affords the opportunity for specialization and depth of training within a particular field. The specialization and expertise developed within the MS program prepares the student for more specialized staff positions in industry, the nonprofit sector and government.

The course requirements for the MS degree in each of the fields are divided into different components—common body of knowledge (CBK), graduate core, and elective requirements. The CBK requires business courses to develop general breadth and competence in the fields of business administration. These requirements differ among MS degree programs and some MS degree programs have eliminated CBK requirements. Some CBK requirements may be waived if evidence of equivalent undergraduate or graduate-level coursework is shown and the course work has been completed within the past 10 years. An undergraduate degree in business administration earned from an AACSB or regionally accredited university will meet most of the CBK requirements. The graduate core and elective courses require at least 30 semester hours of graduate-level coursework. BUSN courses lower than 6800 may not be used as free electives in the MS programs. Contact a graduate staff advisor for any exceptions at grad.advising@ucdenver.edu.

No comprehensive exams are required.

For a list of graduate MS programs, see [Program Curricula](#) below.

Dual Degree Programs

Dual degree program options within the Business School include:

- [MBA/MS](#)
- [MS/MS](#)
- [MBA/MGM](#)
- [MBA/MD](#)
- [MBA/MS in Bioengineering](#)
- [MBA/MURP \(Urban and Regional Planning\)](#)
- [MBA/Political Science](#)

Please be aware that admission into one of our programs does not guarantee admission into another program. If adding a dual, you must meet the admission requirements for both programs. All programs have their own unique admissions requirements. Graduation from one program does not guarantee admission into another program.

PhD CSIS Program

Program co-directors: Gita Alaghband and Mike Mannino

Telephone: 303-556-4314 (Alaghband), 303-315-8427 (Mannino)

The computer science and engineering (CSE) department in the College of Engineering and Applied Science and the Business School offer a joint doctor of philosophy degree program in

computer science and information systems (CSIS). The program targets students who have a master's-level education in computer science, information systems, or related disciplines although highly qualified students with undergraduate degrees may also apply. The program provides research training combining computer science and information systems along with strong industry interaction. Students completing the joint PhD program may qualify for academic positions, industrial research positions and senior consulting positions. The specific goals of the program complement these general goals:

- create a pool of graduates with CSIS research training who are qualified for academic and non-academic careers
- meet student demand for advanced training in CSIS with accommodations for full-time and part-time students
- promote interdisciplinary research between the computer science and engineering department and the Business School
- enhance technology transfer between CSIS academic units and front range technology businesses through joint research, student internships, faculty externships and committee participation

Admission

Prospective students apply to either the Department of Computer Science and Engineering or the Business School. Applicants who pass the initial screening are reviewed by a joint committee consisting of the two co-directors of the program for the final admittance decision.

Admission criteria include GPA (undergraduate and graduate), standardized test scores (GMAT or GRE), letters of recommendation, prior achievements in academia and industry and the application portfolio essay describing an applicant's motivation and an initial plan for doctoral study. The application portfolio is important to gauge an applicant's motivation for research training.

Because of the program's goals, preference is given to students with a master's degree in either computer science or information systems. Students without a master's degree in either area will need to take additional course work depending on the student's background.

Program Organization

Supervision of the PhD Program

The PhD program is supervised by co-directors from the Business School and the CSE department. The duties of the co-directors include scheduling of doctoral courses, setting program policies subject to approval of the Business School and the CSE faculty, working with advisors and doctoral committee chairs to ensure compliance with the program guidelines, resolving disputes, measuring performance of the program over time and providing the final decision on admittance of students.

Advisor

Upon entering the program, each student chooses an advisor who will provide mentoring and guidance in the course of the entire program. The advisor will work with the student to prepare a program of study in the course work part of the program. The advisor will also work with the student in the preparation of the first- and second-year papers. Requests to change the advisor must be approved by the co-directors of the PhD program.

Dissertation Committee

The advisor and four other members form a dissertation committee. To foster interdisciplinary work, you may have your dissertation research co-advised by two faculty members. At least one co-advisor must be a full-time current graduate faculty member in the CSE department or the Business School. The committee must contain at least one faculty member from the CSE department and at least one from the Business School. At least one committee member is from outside of the CSE department and the information systems faculty.

Executive Programs

Executive MBA

Faculty and Resources

The faculty are senior faculty of the Business Schools from three of the university's campuses. The [executive MBA program](#) is offered jointly by the Graduate Schools of Business Administration in Boulder and Colorado Springs and the Business School in Denver. Faculty are nationally recognized, and all possess both practical managerial experience and a demonstrated ability to work effectively with executive-level students.

Admission Requirements

The executive MBA program is designed for men and women who have eight to 10 years experience in a decision-making position. In the selection process, significant attention will be given to the depth and breadth of the candidate's experience, progression in job responsibility, total work experience and the ability to benefit from this integrative classroom/work environment. The admissions committee will base its decision on the application, former academic record, relevant test scores, the employer's nominating letter, other letters of recommendation and a personal interview.

For application and additional information, write to:

Executive MBA Program
University of Colorado Denver
P.O. Box 480006
Denver, CO 80248-0006

Executive MBA in Health Administration

Program Manager: Pete Taffe

Telephone: 303-623-1888 or 1-800-228-5778

Program Sponsors

The [executive program in health administration](#) is a cooperative program of CU Denver and the Network for Healthcare Management.

The University of Colorado Denver serves as the degree-granting institution for the executive program. The graduate program in health administration is located in the Business School.

The Network for Healthcare Management is an educational consortium representing healthcare executives and academic faculty from major health administration graduate programs in the United States and Canada, including Arizona State University, Northwestern University, Ohio State University, San Diego State University, the University of California at Berkeley, the University of California at Los Angeles, the University of Colorado Denver, the University of Michigan, the University of Missouri, the University of North Carolina, the University of Southern California, the University of Toronto, the University of Washington and Virginia Commonwealth University.

Extend your education

Whether you are looking to advance in your current field or prepare for an entirely new career, the Business School offers opportunities to suit your goals.

A variety of classes and programs are available to community members and alumni. Classes are taught by expert faculty or influential members of the Denver business community, imparting knowledge that is readily applicable in the field.

Entrepreneurship

The Jake Jobs Center for Entrepreneurship offers programs for those looking to start a new venture or enhance their entrepreneurial skills. See the college website for more information.

Certificate Specialization Programs

Modern career paths are flexible, so it's beneficial to have a flexible degree. If you already have a graduate business degree from an AACSB accredited school, the CU Denver Business School allows you to add a specialization through our post-graduate certificates. See the college website for more information.

Course List for the Business School

Click [here](#) for a list of courses offered by the Business School.

Program Curricula

1. Discuss concerns with the faculty member

Programs

Master of Business Administration

- [Business Administration – Health Administration MBA](#)
- [Business Administration MBA](#)
- [Business Administration: 11–Month MBA](#)
- [Executive MBA in Health Administration](#)
- [Master in Business Administration for Executives, MBA](#)

Master of Business Administration/Master of Science

- [Business Administration/Business MBA/MS](#)
- [MBA/MS in Bioengineering](#)

Master of Business Administration/Master of Global Management

- [Business Administration/Global Management MBA/MGM](#)

Master of Business Administration/Doctor of Medicine

- [Business Administration/Medicine MBA/MD](#)

Master of Business Administration/Master of Urban and Regional Planning

- [Business Administration/Urban and Regional Planning MBA/MURP](#)

Master of Science

- [Accounting MS](#)
- [Business Analytics MS](#)
- [Finance and Risk Management MS](#)
- [Global Energy Management MS](#)
- [Health Administration MS](#)
- [Information Systems MS](#)
- [International Business MS](#)
- [Management and Organization MS](#)
- [Marketing MS](#)

Master of Science/Master of Arts

- [Finance/Economics MS/MA](#)

Master of Science/Master of Science

- [Business/Business MS/MS](#)

Doctor of Philosophy

- [Computer Science and Information Systems PhD \(Business School\)](#)

School of Education & Human Development

Click on the following links to go right to that information:

- [Overview](#)
- [Programs Leading to Degrees and Licenses](#)
- [Centers and Cooperatives](#)
- [Course List for the School of Education and Human Development](#)
- [Departments and Programs](#)

Dean

Rebecca Kantor

Associate Deans

Dorothy Garrison-Wade

Honorine Nocon

Barbara Seidl

Assistant Deans

Aswad Allen

Christine Feagins

Contact

Admissions

Academic Services

1380 Lawrence Street Center, Suite 701

303-315-6300 voice

303-315-6311 fax

Email: education@ucdenver.edu

Website: www.ucdenver.edu/education

Mailing Address

School of Education & Human Development

P.O. Box 173364, Campus Box 106

Denver, CO 80217-3364

Application Deadlines

Application deadlines vary by program.

Visit <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Apply/Pages/ApplyNow.aspx>

Overview

The School of Education & Human Development is a vibrant community of practicing educators and counselors, educational leaders and researchers who have a strong service ethic locally, nationally and globally and a dedication to excellence.

Mission

Leadership for Educational Equity

We prepare and inspire education and mental health leaders to have a profound impact in fostering student opportunity, achievement and success in urban and diverse communities.

Our Role in the Community

We are committed to developing forward-thinking educators and counselors who have a deep sense of inquiry, a concern for pressing social problems, a great desire to live their lives purposefully, a passion for giving back to the community and the cultural competence needed to serve urban and diverse populations.

Diversity and Inclusion

At the School of Education & Human Development (SEHD), we believe strongly that all students—diverse in race, ethnicity, economic resources, language, fluency, abilities, geography, first-generation status, age, gender and sexual identities—deserve the opportunity to learn. To advance our mission and meet the changing interests of our local and global communities, the Office of Diversity and Inclusion has been established to create positive momentum towards educational access, equity, and success.

Accreditation

The School of Education & Human Development is fully accredited by the Colorado Department of Education (CDE), the Council for the Accreditation of Educator Preparation (CAEP) and the Council for Accreditation of Counseling and Related Education Programs (CACREP) in Agency Counseling, School Counseling and Marriage and Family Therapy, and the National Association of School Psychologists (NASP) in School Psychology.

Programs Leading to Degrees and Licenses

The School of Education & Human Development offers three doctoral programs, one educational specialist degree, master's degrees in seven program areas as well as undergraduate

degrees with teacher licensure through a partnership with the College of Liberal Arts and Sciences, as well as in elementary education, special education, early childhood education, and human development and family relations. Students in these degree programs may pursue a variety of state licenses for teaching and school administration or may elect to earn these licenses without pursuing a graduate degree.

The school's degree programs and the associated state licenses are listed in the following table that also provides contact information.

School of Education and Human Development Degree Programs and Associated State Licenses

Admissions

All students apply online. Instructions for undergraduate students are found at <http://www.ucdenver.edu/admissions/Pages/index.aspx>. Instructions for graduate students are found at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Apply/Pages/ApplyNow.aspx>.

Information about all degrees, programs and admission requirements can be found on the school's website at www.ucdenver.edu/education.

Continuing Professional Education

The center coordinates all professional development and continuing education initiatives, across all academic programs and professional development programs/centers in the School of Education. The center has a lead role in the ongoing preparation of professionals who work in diverse schools, agencies, and related settings via partnerships between those settings and the school. For more information, please call 303-315-4920 or visit <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Pages/Home.aspx>.

For information about centers and cooperatives in the School of Education & Human Development, visit <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CentersPartnerships/Pages/Centers.aspx>.

- [Center for Evidence Based Practices in Early Learning \(CEBPEL\)](#)
- [Center for Transforming Learning and Teaching \(CTLT\)](#)
- [Culturally Responsive Urban Education \(CRUE\)](#)
- [The Evaluation Center](#)
- [The Faculty Research Support Center](#)
- [Laboratory for Educational Assessment Research and innovatioN \(LEARN\)](#)
- [Paraeducator Resource and Research Center \(PAR²A\)](#)

Partnership for Learning, Innovation and Progress (PLIP)

- [Positive Early Learning Experiences Center \(PELE\)](#)
- [XSci](#)

School of Education and Human Development Degree Programs and Associated State Licenses

Programs	Approved Degrees	Licenses and Endorsements
Administrative Leadership and Policy Studies	Master of Arts: Administrative Leadership and Policy Studies Educational Specialist (EdS): Administrative Leadership and Policy Studies	Principal License Administrator License
Counseling	Master of Arts: Counseling	Public School Counselor License: 0–21 Encouraged to apply for licensure from the State of Colorado: Couple and Family Therapy Clinical Mental Health Counseling – Interdisciplinary Clinical Mental Health Counseling – Multicultural
Mathematics and Science (STEM) Education	Master of Arts: Curriculum and Instruction	Emphases: Elementary Mathematics or Science Elementary Mathematics/Science Secondary Mathematics or Science
Doctoral Studies in Education	Doctor of Education (EdD) in Leadership for Educational Equity Doctor of Philosophy (PhD) in Educational Studies and Research	EdD: Principal License Administrator License
Early Childhood Education	Master of Arts: Early Childhood Education	Early Childhood Special Education Specialist Birth -8 License Early Childhood Special Education Specialist Birth -8 Added Endorsement
Educational Psychology	Master of Arts: Educational Psychology	Emphases: Human Learning Human Development Research & Evaluation Educational Assessment
Graduate Teacher Licensure	Master of Arts: Curriculum and Instruction Educational Psychology Special Education	Graduate Teacher Licensure: Elementary Education Secondary Education: Math, Science, Social Studies, English, Foreign Language Special Education:

		Generalist–K–12
Undergraduate Teacher Licensure	SEHD BA Degree with a major in Teaching, Learning, and Development (TLED) College of Liberal Arts Degrees: Bachelor of Arts Bachelor of Science	Undergraduate Teacher Licensure: Elementary Education, Special Education, Early Childhood Education Secondary Education: Math, English, Science, Social Studies, Foreign Language
Information and Learning Technologies	Master of Arts: Information and Learning Technologies	Endorsements/emphases: <ul style="list-style-type: none"> • Adult Learning & Instructional Design • E-Learning Design and Implementation • K-12 Instructional Technology Teacher and Instructional Technology Specialist • School and Teacher Librarian
Linguistically Diverse Education	Master of Arts: Curriculum and Instruction	Endorsement/emphasis: <ul style="list-style-type: none"> • Linguistically Diverse Education
Literacy, Language and Culturally Responsive Teaching	Master of Arts: Curriculum and Instruction	Endorsements/emphases: <ul style="list-style-type: none"> • Reading Teacher: K–6, 7–12 • Secondary English Education
Special Education	Master of Arts: Special Education	Special Education Generalist K-12
School Psychology	PsyD: School Psychology	School Psychology Birth - 21

[Course list for the School of Education and Human Development](#)

Click [here](#) for a complete list for the School of Education and Human Development.

Programs

Master of Science

- [Mathematics Education Master of Science in Education MEd](#)

Comparison of Programs Offered

- [SEHD Degree Programs and Associated State Licenses](#)

Urban Community Teacher Education Program
[Go to information for this department.](#)

Programs

License

- [Elementary/Secondary Education Licensure](#)
- [Special Education](#)

Master of Arts

- [Special Education MA](#)

Counseling
[Go to information for this department.](#)

Programs

Master of Arts

- [Counseling MA](#)

School Psychology
[Go to information for this department.](#)

Programs

Education Specialist

- [School Psychology PsyD/Licensure](#)

Curriculum and Instruction
[Go to information for this department.](#)

Programs

Master of Arts

- [Curriculum and Instruction MA - STEM](#)

Information and Learning Technologies

[Go to information for this department.](#)

Programs

Certificate

- [Designing E-learning Environments Graduate Certificate](#)
- [Digital Storytelling Graduate Certificate](#)

Endorsement

- [Instructional Technology Endorsement](#)
- [School Library Endorsement](#)

Master of Arts

- [Information and Learning Technologies MA](#)
- [School Library and Instructional Leadership MA](#)

Culturally and Linguistically Diverse Education

[Go to information for this department.](#)

Programs

Certificate

- [Culturally Responsive Urban Education \(CRUE\) Graduate Certificate](#)
- [Teaching English to Speakers of Other Languages \(TESOL\) Graduate Certificate](#)
- [Teaching for Cultural and Linguistic Diversity \(TCLD\) Certificate](#)

Endorsement

- [Culturally and Linguistically Diverse Education Endorsement](#)

Master of Arts

- [Culturally and Linguistically Diverse Education, MA Curriculum and Instruction](#)

Literacy, Language and Culturally Responsive Teaching

[Go to information for this department.](#)

Programs

Certificate

- [Early and Adolescent Literacy Certificates](#)

Endorsement

- [Reading Teaching Endorsement](#)

Master of Arts

- [Reading and Writing Option, MA Curriculum and Instruction](#)
- [Secondary English Education Option, MA Curriculum and Instruction](#)

Administrative Leadership and Policy Studies

[Go to information for this department.](#)

Programs

Education Specialist

- [Administrative Leadership and Policy Studies EdS](#)

License

- [Administrator License - Executive Leadership Program](#)
- [Principal Licensure](#)

Master of Arts

- [Administrative Leadership and Policy Studies MA](#)

Early Childhood Education

[Go to information for this department.](#)

Programs

Endorsement

- [Early Childhood Special Education Specialist Endorsement](#)

License

- [Early Childhood Special Education Specialist Licensure](#)

Master of Arts

- [Early Childhood Education MA](#)

Educational Psychology

[Go to information for this department.](#)

Programs

Master of Arts

- [Educational Psychology MA](#)

Doctoral Studies in Education

[Go to information for this department.](#)

Programs

Doctor of Philosophy

- [Educational Studies and Research PhD](#)

Doctor of Education

- [Leadership for Educational Equity EdD](#)

College of Engineering and Applied Science

- [Overview](#)
- [Graduate Study in Engineering](#)
- [Research Centers](#)
- [Continuing Engineering Education Program \(CEEP\)](#)
- [Courses offered by the College of Engineering and Applied Science](#)
- [Programs of Study](#)

Dean Marc Ingber

Associate Dean for Research Ken Ortega

Associate Dean for Student Affairs Bruce Janson

Assistant Dean Brian Brady

Contact

Office

North Classroom 3024

1200 Larimer Street, 3rd Floor

Telephone: 303-556-2870

Fax: 303-556-2511

Email: engineering@ucdenver.edu

Mailing Address

College of Engineering and Applied Science
Campus Box 104
P.O. Box 173364
Denver, CO 80217-3364

Application Deadlines

Graduate Programs

Bioengineering

Fall: master's—March 15
doctoral—February 15

Civil Engineering**Domestic**

Fall: master's—June 15
doctoral—May 15

Spring: master's—November 1
doctoral—October 1

Summer: master's—March 15
doctoral—February 15

International

Fall: master's—May 15
doctoral—April 15

Spring: master's—October 1
doctoral—September 1

Summer: master's—February 15
doctoral—January 15

Computer Science and Engineering

Rolling Admissions

Electrical Engineering

Rolling Admissions

Mechanical Engineering

Fall—April 1

Spring—October 1

Overview

The College of Engineering and Applied Science at the University of Colorado Denver meets the needs of the Denver metropolitan area by providing nationally accredited engineering education programs in a flexible format that suits both students and employers. Recognizing the importance for students to pursue professional studies and related employment simultaneously, the college offers undergraduate and graduate degree programs in bioengineering, civil engineering, mechanical engineering, electrical engineering and computer science and engineering through evening studies or through a more traditional schedule of day classes. As a practicing engineer, you can improve and update your professional capabilities and earn a graduate degree. Or, through our interdisciplinary master of engineering degree, you can obtain graduate education in business, management, computer science, behavioral science or other areas together with new engineering skills in your field.

A listing of the fields in which engineers work would have hundreds of entries. The following list is a brief summary of the engineering fields available at CU Denver.

Bioengineering offers opportunities for interdisciplinary undergraduate training for a bachelor of science degree and graduate training for master of science and doctor of philosophy degrees. Our programs are uniquely integrated with the CU Anschutz Medical Campus. Students enjoy opportunities to learn from clinicians and engineers and to perform research or medical device design in world-class hospitals and clinical research labs. Bioengineering is one of the fastest growing job markets this decade. A degree in this area provides numerous opportunities to work in health care, biomedical industry, government regulatory agencies and academia.

Civil engineering offers an interesting and challenging career in the design and construction of buildings, bridges, dams, aqueducts and other structures; in transportation systems including highways, canals, pipelines, airports, rapid transit lines, railroads and harbor facilities; in the distribution of water and the regulation of rivers; in the development of water resources for urban use, industry and land reclamation; in the control of water quality through water purification and proper waste treatment; in the construction and contracting industry; and in the problems concerned with our physical environment and the growth of cities.

Computer science and engineering offers graduates the solid foundation needed for jobs in computing and information technologies. Career paths in computer science involve designing and implementing software, devising new applications of computers and developing effective ways to solve computing problems. Computer engineers design and develop computer hardware and supervise its manufacture and installation.

Electrical engineering offers professional careers that include research in development of new electrical or electronic devices, instruments or products; design of equipment or systems;

production and quality control of electrical products; and sales or management for private industry or government. There are numerous specialties within electrical engineering. Among them are the design and application of computer systems and digital engineering; electromagnetic fields and microwave devices; control systems; communication theory and signal processing; electrical integrated circuits and electron devices; and energy and power systems.

Mechanical engineering offers a wide range of interesting and challenging career opportunities in research, design, development, manufacturing, testing and marketing for either private industry or government. Mechanical engineers help develop a wide range of products such as engines, transmissions, compressors, pumps, computer disk drives, oil field drilling rigs, missiles, space satellites, earth-moving equipment, container-manufacturing machines, medical equipment and many other products encountered in daily life.

College of Engineering and Applied Science Educational Goals

The College of Engineering and Applied Science has established the following goals and objectives for undergraduate education:

- successful completion of the fundamental core courses, primarily lower division, in mathematics and the physical sciences
- successful completion of the required upper-division courses in engineering science, analysis and design
- successful completion of real-world engineering design projects that require integration of engineering, economic and social skills
- successful completion of a series of humanities and social science courses that introduce the student to societal problems and historical perspectives
- evidence, through close student/faculty contact, of development of professionalism, ethics and concern for the multifaceted human element of engineering
- evidence, from successful completion of a full engineering curriculum, of the ability to maintain professional competency through lifelong learning
- evidence, through successful completion of a series of communications oriented courses and project presentations, of an ability to communicate effectively with professionals and lay persons alike

Nondegree Students

Nondegree graduate students may apply 9 semester hours of graduate-level course work toward a master's degree in engineering from CU Denver.

Summer Courses

Summer session courses are offered for regular students and those who have course deficiencies. Courses are also offered for high school graduates who wish to enter as freshmen and need some additional preparatory work. For some students, there are advantages in starting their college careers during the summer session. Some required freshman and sophomore courses and many

elective courses are offered at CU Denver during the summer. The summer session gives students a head start and enables them to take a lighter load during the fall semester or take additional courses to enrich their programs.

Computing

The College of Engineering and Applied Science encourages all students to develop their skills in using the computer as a tool, not only for solving technical problems but for use in all other facets of their careers. Students are encouraged to explore computer courses other than the fundamental programming course required in their curriculum.

Internships

Internships are a way for students to gain professional experience while studying at CU Denver. Many internship positions lead to permanent employment opportunities upon graduation. Please see the Career Center section of the [Student Services](#) chapter in this catalog or contact the Career Center at 303-556-2250 for information on the specific eligibility requirements.

Scholarships

The college receives an annual allocation of state funds for Dean's Scholarships; these funds are awarded to students who apply and meet scholarship and community service criteria. Additional funds for scholarships and loans are obtained through contributions from alumni and friends. Enrollment in the College of Engineering and Applied Science makes the student eligible for these scholarships. Scholarship application forms are available online through the [CU Denver Scholarship Resource Office](#). Students must apply by April 1 for scholarships beginning in the upcoming academic year. Students can apply for all industry scholarships and Dean's Scholarships using the general application form. Scholarship application forms require information about the applicant's participation in school related activities, community activities and work. Dean's Scholarship applicants must qualify for in-state tuition and have at least a 3.0 GPA, but do not need to show unmet financial need.

For additional information on other types of financial aid, consult the [Tuition, Fees and Financial Aid](#) chapter of this catalog.

Graduate Study in Engineering

The College of Engineering and Applied Science offers graduate programs in bioengineering, civil engineering, computer science and engineering, electrical engineering, mechanical engineering, and an interdisciplinary doctoral degree in engineering and applied science.

For information regarding courses and requirements leading to the master of science, master of engineering or the PhD degree, see the appropriate discipline heading in this section. For

graduate admission information and policies, see the [Information for Graduate Students](#) chapter of this catalog.

TOEFL/Language Requirements

International graduate students who take the TOEFL English proficiency exam must score at least 525 on the paper-based exam or 71 on the Internet-based exam (IBT). International students must score a 6.0 on the IELTS exam. International students who successfully complete study at Spring International with a grade of B or better are not required to submit TOEFL scores. Students must successfully complete studies through Level Six to be eligible for the waiver consideration. Contact Spring International for more information at www.spring.edu.

Education for Employed Professional Engineers

Continuing education for employed engineers grows more important each year. Therefore, the college puts great emphasis upon making graduate courses available through late afternoon and evening courses. The master of engineering degree permits graduate students more flexibility in defining specialized interdisciplinary fields that meet their professional needs. This degree has standards equivalent to those of the master of science degree.

In addition to credit course work, the college also offers courses of interest to practicing engineers through its Continuing Engineering Education Program, 303-556-4907. (See also [Continuing Engineering Education Program](#).)

Research Centers

Transportation Research Center

Director: Bruce Janson
Telephone: 303-556-2831

The Transportation Research Center (TRC) involves both students and faculty on the Denver campus in a range of education and research activities. The TRC works on projects in collaboration with other departments and colleges such as business, urban planning and public affairs. TRC projects address local, state, national and international concerns with funding from federal, state, local or private sources.

Some focuses of the Transportation Research Center are transportation modeling; traffic monitoring technologies and data analysis techniques; transportation planning and travel demand forecasting for both person and freight movements; traffic engineering and control; facility design and management; sustainable transportation systems; safety studies; use of geographic information systems in transportation; environmental impact assessment; transportation investment decision analysis, including cost-benefit and life-cycle analyses and cross-subsidization issues; and accident studies. Several studies on advanced system development involve partnerships with Colorado's high-tech industry.

Center for Geotechnical Engineering Science

Director: Nien-Yin Chang

Associate Director: Brian Brady

Telephone: 303-556-2362

The Center for Geotechnical Engineering Science aims to advance the understanding of the safety, reliability, performance and environmental impact of engineered geotechnical structures. Resolutions of geotechnical and geoenvironmental remediation problems are addressed through research sponsored by public funding agencies and private industry. The center seeks the opportunity for cooperative research with other institutions. Research interests include soil-structure interaction (SSI) effects on the response of structures under strong seismic shakings (high rises, bridges, retaining walls, deep foundations and other infrastructures); load and resistance factors designs (LRFD) of deep foundations; seismic responses of mechanically stabilized earth (MSE) structures; and expansive soils foundation designs.

The Center can provide technical expertise pertaining to expansive soil investigation, foundation designs, forensic investigation and rehabilitation of damaged structures. With billions of dollars lost due to expansive soil damage to structures, much is desired in formulating prediction mechanisms for expansive soil behaviors and design procedures for the mitigation of severe damage and technology for the rehabilitation of the damaged structures. Severe expansive soil problems have led to a Center research effort aimed at a better understanding of expansive soil mechanics, foundation performance and forensic investigation of the damage to structures (buildings, highways, airport taxiway and runway). The Center promotes technology transfer through engineering education and public forums.

Center for Sustainable Infrastructure Systems

Telephone: 303-556-2871

The Center for Sustainable Infrastructure Systems (CSIS) is an interdisciplinary research center between the College of Engineering and Applied Science and the [School of Public Affairs](#), bringing together engineers with professionals from science, public policy and health and business development for the advancement, rapid diffusion, review and redesign of resilient and sustainable infrastructure systems in society. There are four unique aspects of CSIS sustainable infrastructures research:

- Systems Approach—integrating research across various infrastructures and/or sectors, with efficiency benchmarks in each sector to aid in scenario modeling and quantitative goal setting.
- Multi-objective—taking into consideration infrastructure performance and its impact on people, prosperity and the planet
- Outcomes and metrics driven
- Considers people and processes—understanding the policy process and engaging with communities and institutions

In addition to conducting research, CSIS provides educational programs (curriculum, professional development and outreach); conducts outreach for development of sustainable infrastructure projects and activities; and develops and disseminates a body of knowledge related to CSIS.

Continuing Engineering Education Program

Program Manager: Heidi Utt

Telephone: 303-556-4907

Website: ucdenver.edu/CEEP

Continuing Engineering Education Program (CEEP) courses are offered at convenient times and locations, are taught by academic and industry professionals, and are responsive to changing technologies. By addressing topics for both engineers and non-engineers, the curriculum supplies the knowledge, skills, and competitive edge required in many professional fields. Moreover, CEEP students finish with ready-to-apply expertise. Program disciplines encompass civil, electrical, mechanical, environmental, systems, information technology, project management and more, with a focus on key industry certifications, such as the FE, PE, CAPM, PMP, CCENT, CCNA, SCJP and others. Most CEEP offerings are non-credit Continuing Education Unit earning courses, although some courses are available for graduate credit. Visit the website at ucdenver.edu/CEEP for more information and a list of current offerings.

Course List for the College of Engineering and Applied Science

Click [here](#) to see a complete course list for the College of Engineering and Applied Science.

Programs of Study

Courses listed in the following curricula are typical illustrations. Changes in specific courses may be necessary to accommodate students' needs and/or changes in institution requirements; students should take courses in logical sequence.

Programs

Doctor of Philosophy

- [Engineering and Applied Science PhD](#)

Bioengineering

[Go to information for Bioengineering.](#)

Programs

Master of Science

- [Bioengineering MS](#)

Master of Science/Master of Science

- [Bioengineering Dual MS](#)

Doctor of Philosophy

- [Bioengineering PhD](#)

Doctor of Medicine/Doctor of Philosophy

- [Bioengineering MD/PhD](#)

Civil Engineering

[Go to information for Civil Engineering.](#)

Programs

Certificate

- [Geographic Information Systems Graduate Certificate](#)
- [Sustainable Urban Infrastructure Graduate Certificate](#)
- [Water Resources Graduate Certificate](#)

Master of Science

- [Civil Engineering MS and MEng](#)

Doctor of Philosophy

- [Civil Engineering PhD](#)

Computer Science and Engineering

[Go to information for Computer Science and Engineering.](#)

Programs

Master of Science

- [Computer Science MS](#)

Doctor of Philosophy

- [Computer Science and Information Systems PhD](#)

Electrical Engineering

[Go to information for Electrical Engineering.](#)

Programs

Master of Engineering

- [Electrical Engineering MEng](#)

Master of Science

- [Electrical Engineering MS](#)

Mechanical Engineering

[Go to information for Mechanical Engineering.](#)

Programs

Master of Engineering

- [Mechanical Engineering MEng](#)

Master of Science

- [Mechanical Engineering MS](#)

College of Liberal Arts and Sciences

Please click on any of the following to go right to that information:

- [Graduate Policies And Procedures](#)
- [Academic Ethics And Petitions](#)
- [Collegewide Interdisciplinary Programs](#)
- [Centers and Institutes](#)
- [Course List for the College of Arts and Sciences](#)
- [Departments and Programs](#)

Dean (interim)

Laura M. Argys, Professor of Economics

Associate Deans

Richard Allen(interim), Associate Dean for Research and Creative Activities; Associate Professor of Psychology

J. Jeffrey Franklin, Associate Dean for Undergraduate Curriculum and Student Affairs; Professor of English

Marjorie Levine-Clark, Associate Dean for Planning and Initiatives; Associate Professor of History

John Wyckoff, Associate Dean for Faculty and Staff Affairs; Professor of Geography and Environmental Sciences

The College of Liberal Arts and Sciences partners with the Graduate School in administration of our graduate programs.

CLAS Dean's Office

North Classroom, Suite 5014

Phone: 303-556-2557

Fax: 303-556-4861

Graduate School Dean's Office

Lawrence Street Center, Suite 1251

Phone: 303-315-2183

Dean: Dr. Barry Shur

Graduate Coordinator: Jessica Halliday

Application Specialist: Marissa Tornatore

The mission of the College of Liberal Arts and Sciences is to foster academic excellence, to create and impart knowledge critical to a modern society and a global economy, and to ensure the acquisition of skills essential for professional careers and graduate study. Our vision is to enact a new paradigm for a liberal arts education that retains the proven values of a broad education while imparting career-oriented skills throughout the curriculum.

The College of Liberal Arts and Sciences (CLAS) offers a variety of excellent graduate programs, ranging from the highly specialized PhD in Clinical Health Psychology to the broad interdisciplinary MA in Humanities or Social Sciences. CLAS faculty members are recognized as research leaders, dedicated mentors, and engaged scholars. Bringing real-world experience and academic expertise to our classrooms, CLAS faculty are dedicated to instilling in students a lifelong love of learning, respect for free thinking, and commitment to collaborative endeavors. Our graduate programs draw on our downtown location and make use of the city's many resources partnerships with Denver businesses and non-profit organizations. CLAS students have

excellent opportunities to participate in first-class faculty projects and applied research in the community.

College of Liberal Arts and Sciences Educational Goals

CLAS defines liberal education as including four major components:

1. Central elements of knowledge including:
 - a. knowledge of the diversity and significant dimensions of human culture and a specific understanding of American culture, including its political and ethnic diversity;
 - b. aesthetic awareness and appreciation of the cultural contributions made to the human experience by the social sciences and humanities;
 - c. an understanding of the methods of inquiry and development of theory that form the basis of knowledge in the natural and physical sciences;
2. Essential skills for analysis, writing, computation, communication and decision making;
3. The development of a constructive orientation toward society through the enhancement of the individual's capacity to make informed and responsible choices based on reflective consideration of the democratic principles of due process, civil liberties and the balance between individualism and the common good;
4. The ability to apply knowledge of the arts and sciences to society's specific needs.

The college works to instill in students an understanding of these components through required skills and core courses and through the knowledge and skills required by each major program in the college.

Graduate Programs

Graduate degree programs offered by the faculty of the college through the Graduate School are listed below. Many degrees provide the opportunity for students to specialize in concentrations within the discipline; these are noted below the degree title.

Master of Arts (MA)

Anthropology

Research Concentrations: medical, archaeological, biological, sustainable development and political ecology

Communication

Economics

English

Concentrations: applied linguistics, literature,

Master of Integrated Sciences (MIS)

Master of Science (MS)

Applied Mathematics

Biology

Chemistry

Environmental Sciences

Concentrations: air quality, ecosystems, environmental

rhetoric and teaching of writing health, environmental science, education, geospatial

History analysis, hazardous waste, water quality

Concentrations: European, global, public history, United States

Political Science

Master of Social Science (MSS)

Concentration: politics and public policy

Concentrations: community health science, international

Sociology

Spanish

Doctor of Philosophy (PhD)

Applied Mathematics

Master of Humanities (MH)

Clinical Health Psychology

Concentrations: philosophy and theory

Health and Behavioral Sciences

and visual studies

Integrative Biology

Certificate Programs

The college offers undergraduate and graduate certificate programs that demonstrate proficiency in a specialized field of study. These programs differ from minor programs in that certificates may cross traditional disciplinary boundaries and are awarded independently of formal graduation.

Certificate programs are open to degree-seeking students as well as those who aren't seeking a degree but want to enhance their professional expertise, and require the completion of three to six related courses (9-19 semester hours). The list of certificate programs below has been approved by the college and will appear on the student's official University of Colorado transcript upon completion of all certificate requirements.

Information about certificate programs can be found in the coordinating department section of this catalog and the departmental Web sites, or by contacting the department directly.

Graduate Certificates

Applied Statistics (Mathematical and Statistical Sciences)

Biotechnology (Biology)

Democracy and Social Movements (Political Science)

Geographic Information Science (Geography/Environmental Sciences)

Environmental Sciences

Six options: air quality, ecosystems, environmental health, geospatial analysis, hazardous waste and water quality

Historic Preservation (History)

Public, Nonprofit and Community Leadership

Public Relations (Communication)

Scientific Foundations of Technical Innovation (Physics)

Sustainable Urban Agriculture (Geography/ Environmental Sciences)

Teaching English Language Learners (English)

Women's and Gender Studies (WGST Program)

Continuing and Professional Education (CPE)

The College of Liberal Arts and Sciences (CLAS) participates in the University's Continuing and Professional Education (CPE) programs, which include credit courses offered through extended studies during evenings, weekends and at off-campus sites. CPE also includes non-credit courses offered for continuing education units (C.E.U.s) or for professional development and personal enrichment. Information about the CLAS CPE program can be found at.

A full degree program, the MA in political science (politics and public policy option), is available as part of the CLAS CPE. This weekend program is offered by the Center for New Directions in Politics and Public Policy at two off-campus locations: Durango, CO and the University Center at Chaparral in Douglas County. See the [New Directions Program](#) page for further information.

Graduate Policies and Procedures

Admission to Graduate Programs

Each CLAS graduate program handles admissions to its master's or doctoral programs, and defines its own admission standards and procedures based upon the general [Graduate School guidelines](#). CedarCrestone, the CU online application system, is used for all graduate admissions; go

to https://soaprod.cusys.edu/degreeprog/applyDEGREEPROG_CUDEN/login.action to begin your online application. This system allows students to submit online their application essays, letters of recommendation, application fee and other materials, in addition to their online application form.

The criteria for admission shall be based on a combination of the following: minimum 3.0 GPA, standardized examinations, prior professional experience, portfolios or other indicators. Regular

admission to master's programs requires the completion of a bachelor's degree or master's degree from an accredited college or university at the time of matriculation or demonstration of the completion of work equivalent to that required of these degrees as specified by CU Denver.

Students are admitted as regular or provisional students (not all programs offer provisional admission, please see individual programs). Students receiving provisional admission are subject to certain requirements set out by their programs for a probationary period, not to exceed two years. The requirements may be more stringent, but provisional students must complete each semester's course work with a GPA of 3.0 or higher on all work taken.

International students must meet all requirements for regular admission as well as the requirements of the CU Denver Office of International Affairs. These include: documentation in English or a certified English translation of the completion of a bachelor's degree, master's degree or the equivalent at the time of matriculation as evaluated by International Admissions; financial documents required by the CU Denver Office of Admissions; a certified English translation of all records and references not in English; TOEFL scores at the level specified by the program to which the student is applying. See the [Information for International Students](#) chapter for more information.

Transfer Credits

Up to 12 semester hours can be transferred in from another graduate program (including hours taken at CU Denver as a nondegree student with a grade of B- or better) and applied toward a CLAS master's degree and p to 30 transfer semester hours or semester hours taken as a nondegree student may be applied toward a PhD degree; however, some programs allow fewer credits to be transferred. Courses taken while still an undergraduate student may not exceed the 12-semester-hour transfer limit and cannot have been applied toward the undergraduate degree. Only courses numbered 5000 and above or classified as graduate level can be transferred. Courses taken more than 5 years prior to admission must be revalidated by the department or program.

Readmission

If less than one calendar year has passed since a student in good standing was last enrolled in courses at CU Denver, a student must only notify the program they wish to re-enter. If a student does not register for three consecutive terms, he/she needs to be readmitted. This requires the student to submit Part I of the graduate admission form to their department or program; they must also pay the application fee. Those who have not been active for more than four years must complete the full application process.

PhD students may apply for a leave of absence as long as the total time to complete the degree does not exceed 8 years. Up to one year of an approved leave of absence may be taken without reapplying to the program upon return.

Changing Degree Programs

Students changing degree programs need to be admitted by the new department. They must provide all items required of students applying for the first time, but may petition the program to which they were originally admitted to release their initial application materials to the new department. Any transfer of courses to the new degree program is at the discretion of the new department or program.

Advisors

Students should consult with their graduate program advisors at least once a year following admission to the program. Each graduate program has a faculty coordinator who should be consulted about program requirements. This may be the same person as a student's faculty advisor. While students are strongly encouraged to meet with their faculty advisor every semester, they *must* meet with their faculty advisor and/or faculty coordinator at the beginning of their last semester to verify that all degree requirements have been met and to have their candidacy form approved and signed.

Graduate Courses

All courses that count toward a graduate degree must be approved by the degree-granting graduate program. At least 30 hours must be considered graduate rank (taught by graduate faculty). Eighty percent (80%) of the total hours required for a graduate degree must be taken at 5000-level or above, with the remainder subject to departmental approval.

Students may use courses offered through the continuing and professional education program (website: www.ucdenver.edu/academics/continuing-education/Pages/index.aspx) in the pursuit of graduate study only if they obtain proper academic approval from the graduate program.

Graduate students may take up to a total of 6 independent study semester hours (in a 30-hour program), or 20 percent of the total program hours, under the direct supervision of a faculty member and with the approval of the CLAS graduate coordinator. However, it is important that students check with their programs concerning the maximum number of independent study credit hours that may count toward their degree, as this number may vary. The minimum CU Denver GPA required to register for independent study credits is 3.0, and students must be admitted to a CLAS degree program. Each independent study project may be taken for 1-3 semester hours. Students use the special processing form to outline the project and how the grade is determined, which then must be approved by the supervising faculty member and CLAS graduate coordinator.

Graduate-level internship credit may be earned in some programs. Students must be admitted to a CLAS degree program, have completed a minimum of 6 semester hours and have a minimum 3.0 GPA. A maximum of 6 hours of internship credit is allowed, except where specified by the program (i.e., clinical psychology). Students should contact the Experiential Learning Center (website: www.ucdenver.edu/life/services/ExperientialLearning/Pages/default.aspx) for details about the internship contract and faculty sponsorship requirements.

Minimum GPA

Students are required to maintain a minimum cumulative GPA of 3.00 for all graduate courses taken while in Graduate School, including any undergraduate (i.e., 4000 level) courses that may be required for the graduate degree. Courses in which grades below “B-” (2.7) are received may not be applied toward fulfillment of the requirements for any graduate (PhD or Master’s) degree. Courses applied to a graduate degree may not be taken pass/fail.

Probation

A student whose cumulative GPA falls below 3.0 or who receives a grade lower than a *B-* will be placed on academic probation by the Graduate School. A registration stop will be placed on students at the time they are placed on probation.

In the two semesters following placement on probation, the student is allowed to take only courses applicable to the degree and all grades must be at or above a *B*, or the student will be suspended. At the end of two semesters after being placed on probation, the student must raise his/her cumulative GPA to 3.0 or he/she will be suspended from the University, and will not be able to register for any courses.

Incomplete Grades

When a student has special circumstances that make it impossible to complete course assignments during the semester, faculty members have discretion to assign a grade of Incomplete (*I*). Incomplete grades are *not* awarded for poor academic performance or as a way of extending assignment deadlines. While not required, a CLAS course completion agreement form (available from the CLAS Advising Office) is strongly suggested when faculty and student agree on an incomplete grade.

To be eligible for an incomplete grade, students must:

- have successfully completed 75 percent of the course
- have special circumstances (verification may be required) that preclude the student from attending class and completing graded assignments
- make arrangements to complete missing assignments with the original instructor within one academic year

Students are allowed three semesters (one year) to complete the requirements for the incomplete, after which the *I* reverts to an *F* grade on the student’s transcript. Any request to allow a grade change after the one-year period must be petitioned to the CLAS Academic Standards Committee.

Thesis/Project/Dissertation

Master’s programs can be either thesis plan or non-thesis plan; non-thesis plans may include a project or report. Three to six *thesis* semester hours can be applied toward a master’s program.

Three to six *project* semester hours can be applied toward a master's program. Students may register for one or more thesis or project credits each semester up to the maximum.

For doctoral programs, a minimum of 5 hours and maximum of 10 hours of dissertation credit may be registered for in any semester. Students must receive approval from the CLAS graduate dean and the dean of the Graduate School to register for fewer than 5 dissertation hours.

Doctoral candidates must be registered for dissertation credit each fall and spring semester following successful completion of the comprehensive examination. Students on leave of absence, approved by the program and filed with the Graduate School, do not have to register for dissertation credits.

Thesis/Dissertation Procedures

The thesis/dissertation must comply with specifications outlined in the Thesis and Dissertation Style and Policy Manual and have received a preliminary thesis format approval from the Graduate School. The student's faculty committee must approve the final draft of the thesis before it is approved for electronic submission and publication.

Research Protocol

Students doing research that involves gathering data from human subjects must have their research protocol approved by the Human Research Committee (website: www.ucdenver.edu/academics/research/AboutUs/comirb/Pages/comirb-home.aspx). Students doing research that uses animals in any form must have their research protocol approved by the Animal Care and Use Program (website: www.ucdenver.edu/academics/research/AboutUs/animal/Pages/index.aspx).

Graduation Application

Master's and doctoral graduate students complete the graduation process through the CLAS Graduate Coordinator in the Graduate School, Lawrence Street Center, Suite 1251. Both master's and doctoral candidates must follow deadline dates published online by the Graduate School (website: www.ucdenver.edu/academics/colleges/Graduate-School/program-resources/Pages/forms.aspx) and on sheets available from departmental graduate advisors or the Graduate School.

All graduate students must complete the online Apply for Graduation process in their UCD Access Portal the semester they intend to graduate, plus submit the application for admission to candidacy and a request for graduate examination/thesis defense to the Graduate School. The deadline for completing the graduation application online is the published last day to add courses in each semester. After the last day to add courses, the CLAS Graduate Coordinator will approve or deny students' application to graduate in the student information system. If the degree is not completed, students must resubmit the application to graduate each subsequent semester/term until graduation. Failure to submit the online application to graduate will result in delayed graduation.

Admission to Candidacy

The application for admission to candidacy form is available in the Graduate School, the student's program office or online (website: www.ucdenver.edu/academics/colleges/Graduate-School/program-resources/Pages/forms.aspx). This application must be signed by the student's advisor and the program coordinator, certifying that the student's work is satisfactory and that the program outlined in the application meets the requirements set for the student.

A student on probation is not eligible to be awarded a degree until s/he is removed from probation. A student with provisional admission status must be changed to regular admission status before admission to candidacy.

Deadlines

The Graduate School deadlines (to file the application for admission to candidacy and intent to graduate, schedule and hold the comprehensive exam or thesis/project defense, submit thesis for format review, and turn in the final thesis) are published each semester and are available from departmental graduate advisors and the Graduate School. Deadlines and forms are also posted online by the Graduate School. (Website: www.ucdenver.edu/academics/colleges/Graduate-School/program-resources/Pages/forms.aspx) It is the student's responsibility to know and to adhere to these deadlines.

Comprehensive Examination or Thesis/Project/Dissertation Defense

Students must be registered when they take the comprehensive examination or defend the thesis or project. This can be accomplished by registering to take a regular course, independent study/thesis/project credits or through candidate for degree registration. The examination may be oral, written or both.

The master's examination must be given by a committee of three members of the graduate faculty, all of whom sign an exam report form signifying that the student has passed the exam or defense. The committee chair must be a regular member of the Denver campus graduate faculty, and the other members must hold at least a special graduate faculty appointment. PhD dissertation defense committees include four graduate faculty members, one of whom is from outside the primary department, and must unanimously approve the examination.

The record of the thesis defense must be approved by the student's faculty committee and filed with the CLAS Graduate Coordinator before graduation. In programs where the project/report defense counts as the comprehensive exam, this requirement applies to projects/reports as well. A student who fails the comprehensive final examination or defense may retake the examination only once.

Time Limits

Master's degree students have seven years to complete their master's degree.

Doctoral students have eight years from the date of the start of course work after admission to complete all degree requirements for a PhD.

Note: Individual graduate programs may have time limits that are more stringent.

Residency Requirements

A minimum of two semesters of work must be completed at CU Denver.

Academic Ethics and Petitions

Academic Ethics

[This information applies to both undergraduate and graduate students in the College of Liberal Arts and Sciences.]

As members of the CU Denver academic community, faculty and students accept the responsibility to maintain the highest standards of intellectual honesty and ethical conduct in all forms of academic work. While most violations center around cheating or plagiarism, the CU Denver Academic Honor Code is more comprehensive and includes the following categories: plagiarism, cheating, fabrication and falsification, multiple submission, misuse of academic materials and complicity in academic dishonesty.

The CLAS Academic Ethics Committee, composed of faculty, students and staff, is charged with establishing academic ethics policies and, when necessary, evaluating ethics charges against students. Faculty and students should be familiar with the Academic Honor Code for the Denver campus (see the [University Policies](#) chapter) and the CLAS Academic Ethics Policies, available from the CLAS Academic Advising Office, North Classroom, 4002, and online.

(Website: www.ucdenver.edu/academics/colleges/CLAS/clas-advising/Pages/CLASAdvising.aspx)

Faculty who charge student(s) with a violation of the Academic Honor Code may lower a student's grade without review. If the faculty decision concerning the alleged violation affects the student's assignment or course grade, a letter to the student is required with copies to the Department Chair and the CLAS Associate Dean for Student Affairs. Students charged with an ethics violation are required to continue to participate in the class and may appeal the faculty decision to the CLAS Academic Ethics Committee. Students charged with a violation of the Academic Honor Code are encouraged to meet with an advisor in the CLAS Academic Advising Office to review their rights and obtain assistance with procedures.

Petitioning for Exceptions to Standing Academic Policy

The CLAS Academic Standards Committee is responsible for the administration of the academic policies of the college as established by the faculty. This committee constitutes the bridge between the faculty in its legislative capacity and the students upon whom the legislation comes to bear. The committee is empowered to grant waivers of exemptions from and exceptions to the

academic policies of the college. Students wishing to submit a petition to the committee should meet with an advisor in the CLAS Academic Advising Office first to discuss the petition. The Graduate Council reviews grievances related to procedural issues for graduate students that cannot be resolved at the college level.

Students in the College of Liberal Arts and Sciences may appeal a grade. Every attempt is made to resolve grade disputes at the department level. However, unresolved grade issues may be appealed to the CLAS Academic Standards Committee and initiated through the CLAS Academic Advising Office, North Classroom, 4002, 303-556-2555. Details of the grade appeal policies are available in the CLAS Academic Advising Office.

Drop and Add Deadlines

The Office of the Registrar establishes deadlines each semester for registering, adding courses, dropping courses, selecting the pass/fail option and withdrawing from the university. These deadlines are clearly identified online (website: www.ucdenver.edu/student-services/resources/registrar/Pages/AcademicCalendar.aspx). Students seeking to waive these deadlines must petition the assistant/associate dean of the college. Instructions for deadline petitions are available from the CLAS Academic Advising Office, or the Graduate School for graduate students.

Retroactive Drop/Withdrawal

In the event of circumstances that preclude a student from attending class, it is the student's responsibility to carry out drop procedures before the end of the semester. It is against normal college policy to allow a student to drop after the completion of the semester for which grades are already posted.

Students who must stop attending one or more of the classes in which they are enrolled for a term, but who fail to properly drop, may be eligible for a retroactive drop or withdrawal. Courses must have occurred no more than seven years prior to the date of the retroactive drop/withdrawal petition to be eligible.

It is the responsibility of the student seeking a retroactive drop/withdrawal to submit a complete written petition. Detailed instructions can be obtained from the CLAS Academic Advising Office, or the Graduate School for graduate students.

College-wide Interdisciplinary Programs

Click [here](#) to learn about the College of Liberal Arts and Sciences' Interdisciplinary Programs.

Joint Degree Programs BA/MPA

The College of Liberal Arts and Sciences, in cooperation with the School of Public Affairs, offers students the opportunity to complete both a bachelor's degree and master's degree in five

years rather than the usual six years. The program combines undergraduate general education and major studies with a specialized curriculum in public affairs and strives to develop intellectual and professional skills in a coordinated manner. Participating major programs in CLAS include communication, economics, political science and sociology, as well as others.

Students in the BA/MPA program must fulfill all of the graduation requirements for the College of Liberal Arts and Sciences; maintain a 3.5 undergraduate GPA in CLAS and have completed 75 percent of their undergraduate program to be eligible for admission; and enroll formally in the programs through the CLAS Academic Advising Office. Students admitted to the program begin taking graduate-level courses in public administration during their senior year. These courses will count toward the bachelor's degree as electives. For further information, contact the CLAS Academic Advising Office, 303-556-2555.

Centers and Institutes

Center for Computational Mathematics

Director: Jan Mandel

Telephone: 303-556-4475

E-mail: Jan.Mandel@ucdenver.edu

Website: <http://math.ucdenver.edu/ccm>

The Center for Computational Mathematics was established to foster research in one of the discipline's most exciting new field. Through extensive ties with industry along the Front Range and government laboratories across the country, the center provides outstanding opportunities for motivated students to receive additional training and experience.

Center for New Directions in Politics and Public Policy

Director: Kathryn Cheever

Telephone: 303-556-5950

E-mail: Kathryn.Cheever@ucdenver.edu

Website: clas.ucdenver.edu/newdirections/

The center's programs are based on the notion that effectively addressing the public priorities of the 21st century requires that those working on matters of public interest possess a keen understanding of the political forces that guide or thwart the successful mobilization of resources and the achievement of constituent goals consistent with the public interest. Similarly, the need and opportunity for the active engagement—or leadership—of concerned citizens in the policymaking process is greater than ever before. Accordingly, students in any of the center's academic programs will be representative of not only those working professionals in the public and nonprofit sectors, but also elected officials; community activists; interest-group stakeholders; educators from a wide range of demographic, occupational and personal backgrounds; and simply concerned citizens.

Center for Research in the Health and Behavioral Sciences

Director: Susan Dreisbach

Telephone: 303-556-6796

E-mail: Susan.Dreisbach@ucdenver.edu

The Center for Research in the Health and Behavioral Sciences (CRHBS) is dedicated to promoting research and community service in health issues facing the local Denver area, Colorado, the nation and beyond. Research conducted by the allied CRHBS faculty is unique in integrating biomedical, public health and social science perspectives. Current external funding of research through CRHBS is focused on such topics as preventing HIV and STD transmission program evaluation. Research assistant and internship positions for students in the health and behavioral sciences doctoral program are commonly available through CRHBS.

Colorado Center for Public Humanities

Director: Philip Joseph

Telephone: 303-556-4648

E-mail: Philip.Joseph@ucdenver.edu

Website:

<http://www.ucdenver.edu/academics/colleges/CLAS/Centers/publichumanities/Pages/index.aspx>

The work of this center is oriented around two primary goals. First, as a think-tank, the center investigates the public value of the humanities disciplines in relation to historical change by sponsoring programs that help to clarify the roles that humanities-based scholarship can play within the region, the nation and the world more generally. Our second goal is to direct the engagements of humanities scholars toward extra-academic communities. In pursuing this objective, the center will support scholars whose research programs are designed to reach civic groups outside the university walls and to benefit from the involvement of these groups.

Fourth World Center for the Study of Indigenous Law and Politics

Director: Glenn T. Morris

Telephone: 303-556-2850

E-mail: Glenn.Morris@ucdenver.edu

The Fourth World Center for the Study of Indigenous Law and Politics was founded in 1984 as a resource commons of authoritative information on indigenous peoples' affairs. The major components of the center's educational project are:

- the creation and presentation of a university-level multidisciplinary curriculum focused on the study of indigenous peoples
- the publication of the *Fourth World Bulletin*, a journal on indigenous politics with a global concentration
- the development of university textbooks for the study of indigenous politics

- the presentation of public forums
- the presentation of testimony before international legal organizations

The center features a library, periodicals, audio and visual equipment and online news archives on current development issues surrounding “the Fourth World.”

Shared Analytical Services Laboratory

Lab Manager: Jeff Boon

Telephone: 303-556-4520

E-mail: Jeffery.Boon@ucdenver.edu

Website: clas.ucdenver.edu/sasl/

The Shared Analytical Services Laboratory fosters and promotes disciplinary and interdisciplinary research in the environmental sciences. Faculty represent disciplines within the College of Liberal Arts and Sciences, as well as civil engineering. Services provided by the laboratory are available to all members of the university community, as well as to members of the public and private sectors through joint projects.

Smart-Girl Leadership Institute

Telephone: 303-556-2557

Website: <http://www.ucdenver.edu/academics/colleges/CLAS/FacultyProjects/Pages/community-programs.aspx>

The Smart-Girl Leadership Institute is a prevention and enrichment program that trains college students to lead and inspire adolescent girls to make smart choices and become confident, capable and self-reliant women. CU Denver students earn credit while they build the skills to lead small groups of girls through a fun and effective curriculum.

Writing Center

Director: Justin J. Bain

Office: North Classroom, 4014

Telephone: 303-556-4845

Website: writingcenter.ucdenver.edu

The Writing Center provides free writing assistance to all students. Professional writing consultants assist writers of all levels and in all disciplines on any type of written work. All consultations are by appointment; to schedule an appointment please visit our website.

In addition, the center hosts professional development workshops for graduate students and faculty; maintains a library of grammar handbooks, citation manuals and composition texts; and conducts informational class visits. For additional information on our services for students, see the listing in the [Student Services](#) chapter.

Complete course list for the College of Liberal Arts and Sciences

Click [here](#) to see a complete list of courses offered by the College of Liberal Arts and Sciences.

Departments and Programs

Programs

Certificate

- [Graduate Public, Non-Profit, and Community Leadership Certificate](#)
- [Public, Nonprofit and Community Leadership Graduate Certificate](#)

Anthropology

[Go to information for Anthropology.](#)

Programs

Master of Arts

- [Anthropology, MA](#)

Chemistry

[Go to information for Chemistry.](#)

Programs

Bachelor of Science/Master of Science

- [Chemistry BS/MS](#)

Certificate

- [Biochemistry Certificate](#)

Master of Science

- [Chemistry MS](#)

Communication

[Go to information for Communication.](#)

Programs

Certificate

- [Public Relations Graduate Certificate](#)

Master of Arts

- [Communication MA](#)

Economics

[Go to information for Economics.](#)

Programs

Master of Arts

- [Economics MA](#)
- [Economics MA/Public Administration MPA Dual Degree](#)

Master of Science/Master of Arts

- [Economics MA/Applied Mathematics MS Dual Degree, with a focus in Applied Statistics](#)

Master of Science in Finance/Master of Arts in Economics

- [Economics MA/Finance MS Dual Degree](#)

English

[Go to information for English.](#)

Programs

Certificate

- [Teaching English Language Learners Graduate Certificate \(CTELL\)](#)

Master of Arts

- [English MA](#)

Geography and Environmental Sciences

[Go to information for Geography and Environmental Sciences.](#)

Programs

Certificate

- [Environmental Sciences Graduate Certificate](#)
- [Geographic Information Science Graduate Certificate](#)

Master of Science

- [Environmental Sciences MS](#)

Health and Behavioral Sciences

[Go to information for Health and Behavioral Sciences.](#)

Programs

Doctor of Philosophy

- [Health and Behavioral Sciences PhD](#)

History

[Go to information for History.](#)

Programs

Master of Arts

- [History MA](#)
- [Public History, MA in History](#)

Humanities, Master of

[Go to information for Humanities, Master of.](#)

Programs

Master of Humanities

- [Humanities MH](#)

Integrated Sciences, Master of

[Go to information for Integrated Sciences, Master of.](#)

Programs

Master of Science

- [Integrated Sciences MIS](#)

Integrative Biology

[Go to information for Integrative Biology.](#)

Programs

Master of Science

- [Biology MS](#)

Doctor of Philosophy

- [Integrative and Systems Biology, PhD](#)

Interdisciplinary Programs

[Go to information for Interdisciplinary Programs.](#)

Mathematical and Statistical Sciences

[Go to information for Mathematical and Statistical Sciences.](#)

Programs

Certificate

- [Applied Statistics Graduate Certificate](#)

Master of Science

- [Applied Mathematics, MS](#)

Doctor of Philosophy

- [Applied Mathematics, PhD](#)

Modern Languages

[Go to information for Modern Languages.](#)

Programs

Master of Arts

- [Spanish MA](#)

Philosophy

[Go to information for Philosophy.](#)

Physics

[Go to information for Physics.](#)

Programs

Certificate

- [Scientific Foundations of Technical Innovation Certificate](#)

Political Science

[Go to information for Political Science.](#)

Programs

Certificate

- [Democracy and Social Movements Graduate Certificate](#)

Master of Arts

- [New Directions, Political Science MA](#)
- [Political Science MA](#)
- [Political Science MA / Master of Business Administration \(MBA\) Dual Degree](#)

Psychology

[Go to information for Psychology.](#)

Programs

Doctor of Philosophy

- [Psychology, Clinical Health Psychology PhD](#)

Social Science, Master of

[Go to information for Social Science, Master of.](#)

Programs

Master of Social Science

- [Social Science MSS](#)

Sociology

[Go to information for Sociology.](#)

Programs

Master of Arts

- [Sociology MA](#)

Women's and Gender Studies

[Go to information for Women's and Gender Studies.](#)

Programs

Certificate

- [Women's and Gender Studies Graduate Certificate](#)

School of Public Affairs

Click on the following to go right to that information:

- [Course list for the School of Public Affairs](#)
- [Departments and Programs](#)

Dean: Paul Teske

Associate Dean: Kelly Hupfeld

Associate Dean, Colorado Springs: Teresa Schwartz

Assistant Dean, Denver: Jeanne Paradeis

Contact

Office:

Lawrence Street Center, Fifth Floor

1380 Lawrence Street

Telephone: 303-315-2228

Fax: 303-315-2229

E-mail: spa@ucdenver.edu

Website: www.spa.ucdenver.edu

Mailing Address

School of Public Affairs

Campus Box 142

P.O. Box 173364

Denver, CO 80217

Current Student Inquiries

General Inquiries: 303-315-2228

Graduate Students Last Name A–L:

Dawn Savage, Student Services Coordinator
303-315-2743
Dawn.Savage@ucdenver.edu

Graduate Students Last Name M–Z:

Antoinette Sandoval, Student Services Coordinator
303-315-2487
Antoinette.Sandoval@ucdenver.edu

Prospective Student Inquiries

Graduate

Brendan Hardy, Director of Student Recruitment and Career Services
303-315-2227
spa@ucdenver.edu

Application Deadlines

Masters Program Deadlines

	Preferred Deadline	Final Deadline
<i>Fall</i>	March 15	August 1
<i>Spring</i>	October 15	December 1
<i>Summer</i>	March 15	May 1

PhD Program Deadlines

Fall admission only – **February 1**

Please note: deadlines for international students may vary. Check with the [Office of International Admissions](#) for more information.

The School of Public Affairs - *Lead. Solve. Change.*

The mission of the School of Public Affairs is to prepare the next generation of leaders in public service and criminal justice professions to solve society's most pressing problems. Working together, faculty, staff and students also conduct research that improves the quality of life and informs policy making and management in the public and nonprofit sectors.

Graduates of the School of Public Affairs (SPA) are prepared to **lead** the field, **solve** pressing social issues and **change** communities for the better. Our graduates include legislators, policy analysts and advocates, state agency directors, police chiefs, city and county managers, nonprofit leaders, and university faculty and administrators.

Nationally ranked for excellence, SPA offers programs in multiple locations: on the CU Denver campus, at the CU Colorado Springs campus, on the Western Slope (Grand Junction) and online. The school offers four degrees: the bachelor of arts in criminal justice (BACJ), the master of public administration (MPA), the master of criminal justice (MCJ) and the PhD in public affairs. Qualified senior managers may elect to participate in the school's executive MPA option. SPA offers an accelerated MPA option as well as a variety of concentrations and certificates for students with diverse interests. Dual degrees are available in law, economics, public health, and urban and regional planning.

The School of Public Affairs is accredited by the National Association of Schools of Public Affairs and Administration.

SPA Students

The School of Public Affairs attracts a dynamic mix of students, from undergraduates just beginning their public service careers to well-seasoned professionals already immersed in public or nonprofit management and policy. Students encompass a range of age and experience, and they represent the diversity of the Denver metropolitan area and our state. SPA classrooms promote interaction among students, and the variety of backgrounds – including domestic, international, pre-career and mid-career students – enriches learning enormously.

A Commitment to Community, to Public Service and to Problem Solving

The School of Public Affairs seeks students committed to public service. We prepare those students through a rigorous course of study that combines scholarship and theory while building practical analytical, management and policy making skills. As a school of public affairs, we believe we have a responsibility to engage with our community and serve the public good. SPA students have a wide variety of ways to get involved with and learn from the community, including working on community-centered research projects with faculty, learning from distinguished local practitioners in classes, serving in internships in government and nonprofit offices, working with our applied research centers, and participating in the numerous public affairs-related events SPA holds every semester.

The Buechner Institute for Governance, named for former University of Colorado president John Buechner, was created to strengthen the longstanding bond between the School of Public Affairs and our community. Staff and affiliated faculty are dedicated to serving the Colorado community through research, evaluation, policy analysis, leadership development programs, and specialized workforce training. Leadership and workforce training programs include the Denver Community Leadership Forum, the Rocky Mountain Leadership Program, and Colorado's only accredited Certified Public Manager program.

The Buechner Institute's specialized research programs include the Center for Education Policy Analysis, the Center on Reinventing Public Education-Denver, the Criminology and Criminal Justice Research Initiative, and the Center for Local Government Research and Training. Other projects at SPA devoted to bridging the gap between academia and the community include the Center on Domestic Violence, the Wirth Chair in Sustainable Development, and HealthNewsColorado, an online health policy journalism site.

[Complete Course list for the School of Public Affairs](#)

Click [here](#) to see a complete list of courses offered by the School of Public Affairs.

Departments and Programs

Programs

Bachelor of Arts/Master of Criminal Justice

- [Criminal Justice BA/MCJ](#)

Bachelor of Arts/Master of Public Administration

- [Public Affairs BA/MPA](#)

Certificate

- [Emergency Management and Homeland Security Concentration/Graduate Certificate](#)
- [Environmental Policy, Management and Law Concentration/Graduate Certificate](#)
- [Gender-Based Violence Concentration/Graduate Certificate](#)
- [Interpersonal Violence and Health Care Graduate Certificate](#)
- [Local Government Concentration and Graduate Certificate](#)
- [Nonprofit Organizations Graduate Concentration/Certificate](#)

Master of Criminal Justice

- [Criminal Justice MCJ](#)

Master of Public Administration

- [Public Administration MPA](#)

Master of Public Administration/Dual Degree

- [Public Administration MPA/JD](#)
- [Public Administration/Criminal Justice MPA/MCJ](#)
- [Public Administration/Economics MPA/MA](#)
- [Public Administration/Public Health MPA/MPH](#)
- [Public Administration/Urban and Regional Planning MPA/MURP](#)

Doctor of Philosophy

- [Public Affairs PhD](#)

Graduate Degree Programs

- [Accounting MS](#)
- [Administrative Leadership and Policy Studies EdS](#)
- [Administrative Leadership and Policy Studies MA](#)
- [Anthropology, MA](#)
- [Applied Mathematics, MS](#)
- [Architecture MArch](#)
- [Bioengineering MS](#)
- [Biology MS](#)
- [Business Administration – Health Administration MBA](#)
- [Business Administration MBA](#)
- [Business Administration: 11–Month MBA](#)
- [Business Analytics MS](#)
- [Chemistry MS](#)
- [Civil Engineering MS and MEng](#)
- [Communication MA](#)
- [Computer Science MS](#)
- [Counseling MA](#)
- [Criminal Justice MCJ](#)
- [Culturally and Linguistically Diverse Education, MA Curriculum and Instruction](#)
- [Curriculum and Instruction MA - STEM](#)
- [Early Childhood Education MA](#)
- [Economics MA](#)
- [Educational Psychology MA](#)
- [Electrical Engineering MEng](#)
- [Electrical Engineering MS](#)
- [English MA](#)
- [Environmental Sciences MS](#)
- [Executive MBA in Health Administration](#)
- [Finance and Risk Management MS](#)
- [Global Energy Management MS](#)
- [Health Administration MS](#)
- [Historic Preservation MS](#)
- [History MA](#)
- [Humanities MH](#)
- [Information and Learning Technologies MA](#)
- [Information Systems MS](#)
- [Integrated Sciences MIS](#)
- [International Business MS](#)

- [Landscape Architecture MLA](#)
- [Management and Organization MS](#)
- [Marketing MS](#)
- [Master in Business Administration for Executives, MBA](#)
- [Mathematics Education Master of Science in Education MSED](#)
- [MBA/MS in Bioengineering](#)
- [Mechanical Engineering MEng](#)
- [Mechanical Engineering MS](#)
- [Media Forensics Emphasis, Recording Arts MS](#)
- [New Directions, Political Science MA](#)
- [Political Science MA](#)
- [Public Administration MPA](#)
- [Public History, MA in History](#)
- [Reading and Writing Option, MA Curriculum and Instruction](#)
- [Recording Arts, Master of Science \(MSRA\)](#)
- [School Library and Instructional Leadership MA](#)
- [School Psychology PsyD/Licensure](#)
- [Secondary English Education Option, MA Curriculum and Instruction](#)
- [Social Science MSS](#)
- [Sociology MA](#)
- [Spanish MA](#)
- [Special Education MA](#)
- [Urban and Regional Planning MURP](#)
- [Urban Design MUD](#)

Dual Degree Programs

- [Bioengineering Dual MS](#)
- [Bioengineering MD/PhD](#)
- [Business Administration/Business MBA/MS](#)
- [Business Administration/Global Management MBA/MGM](#)
- [Business Administration/Medicine MBA/MD](#)
- [Business Administration/Urban and Regional Planning MBA/MURP](#)
- [Business/Business MS/MS](#)
- [Chemistry BS/MS](#)
- [Criminal Justice BA/MCJ](#)
- [Economics MA/Applied Mathematics MS Dual Degree, with a focus in Applied Statistics](#)
- [Economics MA/Finance MS Dual Degree](#)
- [Economics MA/Public Administration MPA Dual Degree](#)
- [Finance/Economics MS/MA](#)
- [Political Science MA / Master of Business Administration \(MBA\) Dual Degree](#)
- [Public Administration MPA/JD](#)
- [Public Administration/Criminal Justice MPA/MCJ](#)
- [Public Administration/Economics MPA/MA](#)
- [Public Administration/Public Health MPA/MPH](#)
- [Public Administration/Urban and Regional Planning MPA/MURP](#)

- [Public Affairs BA/MPA](#)

Doctoral Programs

- [Applied Mathematics, PhD](#)
- [Bioengineering PhD](#)
- [Civil Engineering PhD](#)
- [Computer Science and Information Systems PhD](#)
- [Computer Science and Information Systems PhD \(Business School\)](#)
- [Design and Planning PhD](#)
- [Educational Studies and Research PhD](#)
- [Engineering and Applied Science PhD](#)
- [Health and Behavioral Sciences PhD](#)
- [Integrative and Systems Biology, PhD](#)
- [Leadership for Educational Equity EdD](#)
- [Psychology, Clinical Health Psychology PhD](#)
- [Public Affairs PhD](#)

Licensure

- [Administrator License - Executive Leadership Program](#)
- [Early Childhood Special Education Specialist Licensure](#)
- [Elementary/Secondary Education Licensure](#)
- [Principal Licensure](#)
- [Special Education](#)

Endorsement Programs

- [Culturally and Linguistically Diverse Education Endorsement](#)
- [Early Childhood Special Education Specialist Endorsement](#)
- [Instructional Technology Endorsement](#)
- [Reading Teaching Endorsement](#)
- [School Library Endorsement](#)

Undergraduate Certificate Programs

- [Biochemistry Certificate](#)

Graduate Certificate Programs

- [Applied Statistics Graduate Certificate](#)
- [Culturally Responsive Urban Education \(CRUE\) Graduate Certificate](#)
- [Democracy and Social Movements Graduate Certificate](#)
- [Design Build Graduate Certificate](#)
- [Designing E-learning Environments Graduate Certificate](#)
- [Digital Storytelling Graduate Certificate](#)

- [Early and Adolescent Literacy Certificates](#)
- [Emergency Management and Homeland Security Concentration/Graduate Certificate](#)
- [Environmental Policy, Management and Law Concentration/Graduate Certificate](#)
- [Environmental Sciences Graduate Certificate](#)
- [Gender-Based Violence Concentration/Graduate Certificate](#)
- [Geographic Information Science Graduate Certificate](#)
- [Geographic Information Systems Graduate Certificate](#)
- [Geospatial Information Science Graduate Certificate](#)
- [Graduate Public, Non-Profit, and Community Leadership Certificate](#)
- [Interpersonal Violence and Health Care Graduate Certificate](#)
- [Local Government Concentration and Graduate Certificate](#)
- [Nonprofit Organizations Graduate Concentration/Certificate](#)
- [Public Relations Graduate Certificate](#)
- [Public, Nonprofit and Community Leadership Graduate Certificate](#)
- [Scientific Foundations of Technical Innovation Certificate](#)
- [Sustainable Urban Infrastructure Graduate Certificate](#)
- [Teaching English Language Learners Graduate Certificate \(CTELL\)](#)
- [Teaching English to Speakers of Other Languages \(TESOL\) Graduate Certificate](#)
- [Teaching for Cultural and Linguistic Diversity \(TCLD\) Certificate](#)
- [Water Resources Graduate Certificate](#)
- [Women's and Gender Studies Graduate Certificate](#)

Requirements

- [SEHD Degree Programs and Associated State Licenses](#)

Programs

Graduate Degree Programs

ACCOUNTING MS

Program Director: Michael Roberts

Telephone: 303-315-8460

E-mail: Michael.Roberts@ucdenver.edu

The master of science in accounting offers four specializations plus a flexible program which allows students to design individualized courses of study.

The program provides students the opportunity to acquire a thorough understanding of financial and managerial accounting, auditing and taxation in preparation for successful careers in public or private accounting, as well as government or nonprofit accounting.

The MS accounting degree consists of 30 hours + 9 hours prerequisite + 6 hours of Common Body of Knowledge (CBK):

Accounting Prerequisites: (9 hours)

The MS in accounting requires completion of the following accounting prerequisites. If prerequisites are completed at the undergraduate level, course equivalents must be completed with a grade of "C" or better. If taking the course at the graduate level, a grade of "C" or better is required, but students must also maintain a cumulative GPA of 3.0 as students with grades below a B may be subject to probation.

Required Courses (advisor will evaluate transcript for possible waivers):

- BUSN 6550 - Analyzing and Interpreting Accounting Information
undergraduate equivalent: ACCT 2200 and ACCT 2220
- ACCT 6030 - Financial Accounting
undergraduate equivalent: ACCT 3220 and ACCT 3230
- ACCT 6070 - Management Accounting
undergraduate equivalent: ACCT 3320

Common Body of Knowledge (CBK): (6 hours)

Depending on prior coursework, students may be required to take up to two background courses (advisor will evaluate transcript for possible waivers in the CBK):

- BUSN 6530 - Data Analysis for Managers
- BUSN 6620 - Applied Economics for Managers

Accounting Core: (12 hours)

Students may not receive graduate credit for undergraduate coursework and may not retake any course successfully completed at the undergraduate level with a grade of "C" or better. An advisor will evaluate prior coursework to determine substitutions.

- BUSN 6540 - Legal and Ethical Environment of Business
- ACCT 6020 - Auditing Theory
- ACCT 6054 - Accounting Systems and Data Processing
- ACCT 6140 - Tax Planning for Managers

Accounting Capstone: (6 hours)

- ACCT 6250 - Seminar: Financial Accounting
- ACCT 6260 - Seminar: Managerial Accounting

Accounting Electives: (6 hours)

ACCT courses numbered 6000 or higher excluding ACCT 6030 or ACCT 6070. **Or, courses contributing to one of the specializations may be used to meet this elective requirement.**

Free Electives: (6 hours)

Accounting is increasingly diverse and linked to many business decisions. Accountants may eventually work as systems designers, chief financial officers, cost analysts, budget officers or chief executive officers. Students will be better prepared for their careers if they develop competencies in a related field, which may be chosen from a single discipline such as finance, information systems, decision sciences, entrepreneurship, international business, marketing, or management.

Free electives may consist of any course numbered 6800 or higher with BUSN prefix or any course numbered 6000 or higher with a prefix of ACCT, BANA, CMDT, ENTP, FNCE, INTB, ISMG, MGMT, MKTG, or RISK excluding ACCT 6030 and ACCT 6070.

Total: 30 hours

Accounting Specializations

Students may use a combination of accounting and free electives to complete one of the following specialization options:

Auditing and Forensic Accounting Specialization

If planning to complete an AFA specialization, select 4 of the following courses:

- ACCT 6024 - Advanced Financial Accounting
- ACCT 6025 - Auditing Practice
- ACCT 6280 - Professional Judgment and Ethical Decisions in Accounting
- ACCT 6340 - Financial Statement Analysis
- ACCT 6360 - Fraud Examination
- ACCT 6370 - International Accounting
- ACCT 6380 - Forensic Accounting
- ACCT 6470 - Internal Auditing
- ACCT 6510 - Accounting and Information Systems Processes and Controls
- ACCT 6620 - Advanced Auditing

Controllership and Financial Leadership Specialization

If planning to complete a CFO specialization, select 4 of the following:

- ACCT 6024 - Advanced Financial Accounting
- ACCT 6033 - Advanced Managerial Accounting
- ACCT 6080 - Accounting for Government and Nonprofit Organizations
- ACCT 6280 - Professional Judgment and Ethical Decisions in Accounting
- ACCT 6285 - Accounting and Finance for Sustainability
- ACCT 6340 - Financial Statement Analysis
- ACCT 6350 - Current Issues in Professional Accounting
- ACCT 6370 - International Accounting
- ACCT 6520 - Issues in Oil and Gas Accounting

Taxation Specialization

If planning to complete the TAX specialization, select 4 of the following:

- ACCT 6400 - Taxation of Corporations and Shareholders
- ACCT 6410 - Advanced Tax For Individuals
- ACCT 6420 - Taxation of Estates and Gifts
- ACCT 6430 - International Taxation
- ACCT 6440 - Tax Practice and Procedures
- ACCT 6450 - Research Problems In Taxation
- ACCT 6460 - Advance Topics in Taxation
- ACCT 6480 - Partnership Taxation
- ACCT 6482 - Advanced Partnership Taxation
- ACCT 6500 - Advanced Corporate Taxation

Accounting and Information Systems Audit and Control (AISAAC) Specialization

Recently, new regulatory environments have required companies to provide better documentation of their accounting and IT systems to improve the management and disclosure of their business processes for better financial and regulatory controls. Accounting and IT professionals have significant roles in audit and control activities, since they control the systems that monitor and report on finance, planning and operations. The courses within this specialization cover business-process management and financial controls; the emerging trends and practices in privacy and security; the strategies for integrating governance and compliance; and the IT organization's financial and business intelligence services. These courses will focus on how to leverage the existing IT infrastructure to establish quality in financial and internal audit processes and address the regulatory issues associated with reporting, consolidation and document/content management more effectively and completely.

As you will note, this degree plan is 30 hours + 12 hours prerequisite hours + 9 hours in Common Body of Knowledge (CBK) as listed below.

Accounting Prerequisites: (12 hours)

Undergraduate course equivalents must be completed with a "C" or better. Advisor will evaluate transcript for possible waivers.

- BUSN 6550 - Analyzing and Interpreting Accounting Information
- ACCT 6030 - Financial Accounting
- ACCT 6070 - Management Accounting
- ACCT 6054 - Accounting Systems and Data Processing

Common Body of Knowledge (CBK): (9 hours)

Advisor will evaluate transcript for possible waivers in the CBK.

- BUSN 6530 - Data Analysis for Managers
- BUSN 6620 - Applied Economics for Managers
- BUSN 6540 - Legal and Ethical Environment of Business

AISAAC Common Courses: (12 hours)

- ACCT 6020 - Auditing Theory
- ACCT 6510 - Accounting and Information Systems Processes and Controls
- ISMG 6040 - Business Process Management
- ISMG 6830 - IT Governance and Service Management

Accounting Core: (9 hours)

- ACCT 6620 - Advanced Auditing
- ACCT 6250 - Seminar: Financial Accounting
- ACCT 6260 - Seminar: Managerial Accounting

Additional Degree Requirements: (9 hours)

Select 3 of the following:

- ACCT 6340 - Financial Statement Analysis
- ACCT 6360 - Fraud Examination
- ACCT 6470 - Internal Auditing
- ISMG 6080 - Database Management Systems
- ISMG 6180 - Information Systems Management and Strategy
- ISMG 6220 - Business Intelligence Systems
- ISMG 6430 - Information Systems Security and Privacy

ADMINISTRATIVE LEADERSHIP AND POLICY STUDIES EdS

Administrative Leadership and Policy Studies

Requirements for Principal Licensure, the MA and EdS degrees, and Executive Leadership Administrator Licensure Program

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Web site: www.ucdenver.edu/education/alps

Click on any of the following to go right to that information:

- [Principal Licensure](#)
- [Master of Arts Degree](#)
- [Education Specialist Degree](#)
- [Executive Leadership Administrator Licensure Program](#)
- [EdD Leadership for Educational Equity with Principal or Administrator License](#)

Faculty

For information about faculty in this area, visit www.ucdenver.edu/education/alps.

The primary responsibility of the administrative leadership and policy studies (ALPS) faculty is to prepare leaders for public education in Colorado and the nation. Currently, the principal license is required for people seeking building-level administrative positions in Colorado.

Principal Licensure Program

ALPS offers course work that leads to the initial license for principal. Having earned an initial license, those who have obtained a master's degree and who go on to complete a district sponsored induction program may then be awarded a professional license by the Colorado Department of Education.

ALPS's 32 semester-hour principal licensure program is project-based, requiring students to present evidence of meeting both state and national standards through performance based assessments. A 400-hour clinical-practice experience is integrated throughout the four-semester program.

Students interested in pursuing a 12 semester hour principal license at the doctoral level should instead apply to the EdD Leadership for Educational Equity instead of to the MA or EdS Administrative Leadership & Policy Studies. Melissa – this sentence might need some work, but something like this to keep it simple and then link to the EdD.

Students develop a portfolio during the principal licensure program. Portfolios not finalized by the end of the fourth semester must be completed within the two subsequent semesters (not including summer).

Note: Those already holding a master's degree and 5 years of leadership in education should also see the Executive Leadership Program (below) for pursuing administrator (superintendent) licensure.

Denver Metro-Area Cohorts

Denver metro-area cohorts are delivered in four 8-semester-hour courses over four consecutive semesters. Cohorts start at one or more locations each semester and involve a combination of regular in-person meetings (up to 15 times per semester) and online work.

EDUC 5751 - Principal/Administrator Licensing I Semester Hours: 5 to 9

EDUC 5752 - Principal Administrator Licensing II. Semester Hours: 5 to 9

EDUC 5753 - Principal/Administrator Licensing III. Semester Hours: 5 to 9

EDUC 5754 - Principal or Administrator Licensing IV. Semester Hours: 5 to 9

Total: 32 Hours

Distance-Learning Cohorts

Distance-learning cohorts start each summer in June with a week long boot camp in Denver, meet over several intensive weekends during the subsequent fall and spring semesters and end with a weekend the following summer. Online work is completed in between the in-person sessions. Distance-learning cohorts are delivered in **three 9-semester-hour courses and one 5-semester-hour course:**

EDUC 5751 - Principal/Administrator Licensing I. Semester Hours: 5 to 9

EDUC 5752 - Principal Administrator Licensing II. Semester Hours: 5 to 9

EDUC 5753 - Principal/Administrator Licensing III. Semester Hours: 5 to 9

EDUC 5754 - Principal or Administrator Licensing IV. Semester Hours: 5 to 9

Total: 32 Hours

MA Program

The MA is designed for those who do not already hold a graduate degree. Usually master's students will complete 9 semester hours beyond the 32 required in the licensure program, for a total of 41 semester hours of course work after the bachelor's degree.

For the MA degree, students must select at least one course in each of the following three areas:

Section A: Educational Research

RSEM 5100 - Basic Statistics Semester Hours: 3

RSEM 5120 - Introduction to Research Methods Semester Hours: 3

RSEM 5110 - Introduction to Measurement Semester Hours: 3

Section B: Educational Foundations/Multicultural Education

FNDS 5050 - Critical Issues in American Education. Semester Hours: 3

FNDS 5500 - Contemporary Philosophies of Education. Semester Hours: 3

FNDS 5410 - History and Philosophy of Modern Education. Semester Hours: 3

LCRT 5140 or CLDE 5140 - Multicultural Education Semester Hours: 3

LCRT 5150 or CLDE 5150 - Culture of the Classroom Semester Hours: 3

CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn Semester Hours: 3

Section C: Educational Psychology/Special Education

EDUC 5400 - Special Education Seminar for Principals. Semester Hours: 3

EPSY 5100 - Advanced Child Growth and Development. Semester Hours: 3

EPSY 5110 - Human Learning. Semester Hours: 3
EPSY 5140 - Advanced Adolescent Growth and Development. Semester Hours: 3
EPSY 5160 - Behavior Disorders in Exceptional Children. Semester Hours: 3
EPSY 5200 - Social Psychology of Learning. Semester Hours: 3
SPED 5140 - Advanced Assessment in Special Education. Semester Hours: 3
SPED 5180 - Curriculum Planning for Students with Special Needs. Semester Hours: 3
SPED 5400 - Advanced Seminar in Special Education. Semester Hours: 3
SPED 5600 - Special Education for School Professionals. Semester Hours: 3

Candidates must also successfully complete a comprehensive exam paper, reflecting on how the three MA classes will help them in the role of principal.

[EdS Program](#)

The EdS degree program affords the opportunity for advanced graduate study and is available to those who already hold a master's degree. Generally, for the specialist degree students will complete 9 semester hours that constitute an area of focus, in addition to the 32 required in the licensure program. Candidates must also successfully complete a comprehensive exam paper, reflecting on how the three EdS classes will help them in the role of principal.

[Administrator Licensure - Executive Leadership Program](#)

Designed for the professional educator who, already holding a master's degree and 5 years leadership experience in education, wishes to obtain an initial administrator license in Colorado and prepare for a career as a superintendent or other district leader. This one-year, 12-semester-hour certificate program combines weekend meetings with online work and hands-on clinical practice—usually completed in participants' home districts. Learn more at www.ucdenver.edu/education/elp.

[EdD Leadership for Educational Equity with Principal or Administrator License](#)

Students interested in pursuing the administrator license along with a doctorate should instead apply to the EdD Leadership for Educational Equity instead of to the Executive Leadership Administrator Licensure Program.

[Additional Program Information](#)

Individuals interested in any of these programs are encouraged to contact ALPS faculty. Conferences prior to application are encouraged and welcomed. Following admission, students are expected to maintain frequent contact with assigned advisors to plan, develop and complete their programs of study.

ADMINISTRATIVE LEADERSHIP AND POLICY STUDIES MA

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LCRT 5150 or CLDE 5150 - Culture of the Classroom Semester Hours: 3

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SPED 5140 - Advanced Assessment in Special Education. Semester Hours: 3
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EdD Leadership for Educational Equity with Principal or Administrator License

Students interested in pursuing the administrator license along with a doctorate should instead apply to the EdD Leadership for Educational Equity instead of to the Executive Leadership Administrator Licensure Program.

Additional Program Information

Individuals interested in any of these programs are encouraged to contact ALPS faculty. Conferences prior to application are encouraged and welcomed. Following admission, students are expected to maintain frequent contact with assigned advisors to plan, develop and complete their programs of study.

ANTHROPOLOGY, MA

► Graduate School Rules apply to this program.

Plans of Study

MA students may pursue the thesis or non-thesis option.

- **Thesis Option:** A thesis is characterized by three factors: 1) it is based in a research question or problem; 2) it involves original research; 3) there is a fully developed research proposal. A thesis can also encompass a range of format alternatives to the traditional thesis (e.g. article submitted for publication to a peer-reviewed journal, or a video production, internship or museum exhibit, each generally accompanied by a companion paper developing a theoretical or problem-oriented question). The thesis option requires 30 semester hours, including 4-6 hours of thesis.
- **Non-Thesis Option:** This track is defined by additional course work in lieu of a thesis. The non-thesis option requires 36 semester hours of course work.

Thesis Option

The thesis is a major requirement for those in the MA in anthropology thesis track. The thesis should demonstrate the student's ability to apply knowledge and skills gained from the anthropology department's curriculum. A desirable goal for an excellent thesis would be a work of sufficient rigor and quality that it could be considered for publication. Original data collection ("fieldwork") is recommended but not required for the thesis. Analysis of secondary data—whether quantitative, qualitative, visual or other formats—is perfectly acceptable as long as the research is informed by a clearly articulated research question and under-girded by a research proposal.

The traditional thesis is a single document that often incorporates a literature review, definition of a problem, discussion of methods to address the problem, the subsequent research activity and results. However, the student may design a thesis with different emphases, in consultation with their advisor. For example, the goal may instead be a more compact paper submitted to a peer-reviewed journal. Other thesis plans may combine some research activity such as a video production, museum exhibit or an internship, with an accompanying paper. Students pursuing the thesis option must develop a topic and research proposal that specifies their plans in the semester after their completion of 18 credit hours.

The thesis must be defended before a committee of three faculty, at least two of whom need to be on the Department of Anthropology faculty (which includes senior instructors and research faculty). The structure of the thesis is largely determined by the University of Colorado Denver Graduate School Rules; i.e., a thesis must conform to the rules.

1. For the thesis, students must prepare a full research proposal which must be approved by their thesis chair before beginning their research. This proposal must be completed by the semester after the student has completed 18 credit hours. Sections of the proposal should include, at a minimum:
 - a. Introduction and statement of the problem: Should include a one sentence statement of the problem on the first page, and a discussion of its significance (i.e., why is it important that this topic be researched).
 - b. Literature review covering theoretical and topical material.
 - c. Research design and methods including a data analysis plan.

Note: Wenner-Gren and National Science Foundation both provide good models and templates for the research proposal. Those in the medical anthropology track might want

to consider following the NIH model, depending the nature of their research questions and career goals.

2. All students proposing to work with humans or data on modern humans must apply for and receive approval from the Human Subjects Research Committee before they begin their research. Note: most of the material for the application will be drawn from the research proposal.
3. The draft thesis must be reviewed and approved as "defensible" by the student's thesis committee faculty chair before a thesis defense date can be set. Defensible means the chair has reviewed the draft and suggested changes have been made.
 - a. The draft sent to the student's committee must be substantively complete: All references must be in the text and properly formatted in a references cited section; there should be no "track changes" comments in the text; the text should be formatted according to Graduate School requirements.
 - b. Given the complexity of faculty and student schedules, consultation on a defense date should be done as far in advance as possible.
 - c. There must be a minimum of three weeks between the agreed-upon date for the defense and distribution of the draft thesis defined as defensible by the student's chair. If you would like feedback from your committee members before the defense, you should plan to distribute the thesis at least 4 weeks before the defense date.

Note: If you intend to graduate the same semester you defend your thesis, you must schedule, successfully defend, and complete all recommended changes in accordance with CU Denver Thesis and Dissertation Guidelines. This effectively translates to having the thesis completed and "defensible" before the middle of the semester.

Non-Thesis Option

The non-thesis option allows students to pursue their own educational goals through the selection of additional courses that fit their interests. We strongly encourage students who choose this option to consider an internship position arranged around an area of expertise or the development of a skill-set. The internship may be in a governmental agency or non-governmental organization in Colorado, the U.S. or internationally. Successful completion of an internship will be acknowledged on the transcript of the MA program. The decision to pursue the non-thesis option should be made by the semester following the completion of 18 credit hours.

Additional Information

Students must maintain an overall GPA of 3.0 to remain in good standing and receive a grade of *B-* or better in a course to have it count toward graduation. The Graduate School on the Downtown Campus allows up to five years to complete a master's degree, but students are strongly discouraged from spending more than four years. While it is possible to finish the MA in two years, most of our students work part-time, which limits the time they can dedicate to the program; most finish within three years. Four semesters must be taken in residence at CU Denver. All students are required to pass a written comprehensive examination, taken after core course work has been completed.

Some students may benefit from adding a specific skills-based certificate program onto their graduate program. For example: archeology students may wish to gain expertise in Geographic Information Systems through the GIS certificate offered through the Department of Geography and Environmental Sciences, while medical anthropology students may benefit from the certificate in public health offered through the School of Public Health or the environmental health certificate through the Master of Science in Environmental Sciences program. Graduate-level courses in certificate programs can often fulfill elective requirements in the anthropology program.

One doctoral program at the CU Denver campus that may be of particular interest to graduates of the anthropology MA program is the PhD in Health and Behavioral Sciences . It is highly interdisciplinary and a natural extension of a master's degree in medical anthropology.

Course Requirements

Your graduate anthropology education begins by taking ANTH 5810, Integrating Anthropology, plus two core courses each from two subdisciplines of Anthropology. After completing this core, you will select from among the specialized elective courses in the research concentrations described in more detail below. You will work closely with an advisor in selecting the range of courses appropriate both to a problem orientation and to your career objectives.

Required core courses (18 semester hours)

Required in fall of first year:

- ANTH 5810 - Integrating Anthropology

All students must complete or demonstrate competence in the following:

- ANTH 5053 - Quantitative Methods in Anthropology

Choose two of the following three sets of core courses (Students are not required to take these courses sequentially)

Archaeology

- ANTH 6307 - Contemporary Perspectives in Archaeology
- ANTH 6317 - Archaeological Research Design and Analysis

Biological

- ANTH 6503 - Biological Anthropology Core: The Fossil Record
- ANTH 6513 - Biological Anthropology Core: Modern Human Variation

Cultural

- ANTH 6063 - Qualitative Research Design and Methods
- ANTH 6103 - Current Theory in Ethnography

Research Concentrations (8-18 semester hours)

You will round out your program by selecting from the diverse range of courses offered in the department according to your particular interests in anthropology, your career goals and your plans for future graduate study. You may take courses in one or more concentrations. The courses listed are suggestions only; you must work closely with your advisor in constructing your particular program of study.

ANTHROPOLOGY OF HEALTH AND THE ENVIRONMENT

Our MA program in cultural anthropology offers a unique focus on the Anthropology of Health and the Environment. The Anthropology of Health and the Environment blends insights from medical anthropology and political ecology to offer students a holistic understanding of relationships among health, illness, poverty, development and the environment. It includes the study of all aspects of health, illness, and disease in human communities, populations, and ecosystems across the globe.

The Anthropology of Health and the Environment takes as its subject matter a broad range of specific topics, including the study of health policymaking, global public health advocacy, health care systems, health disparities, maternal and child health, nutrition and food habits, the anthropology of substance use, migration and health, environmental justice, and digital health storytelling. We also examine resource management systems and environmental knowledges and their relationships to particular ecosystems and environmental justice initiatives; as well as the culture of the global and local institutions – ranging from small-scale non-governmental organizations to the World Bank – that design and implement development activities in non-dominant countries.

Faculty take a variety of theoretical approaches to the topic, but our program is distinguished by its applied and engaged perspectives. A particular strength of our program is its integration of theoretical knowledge with field-based training opportunities and challenges. We prepare students for careers in nonprofit and community groups, non-governmental organizations, advocacy, public health, health care institutions, and health sciences research; our graduates also attend doctoral programs at selective institutions. Courses in the department are complemented by electives in other departments (sociology, biology, psychology, history, geography, political science) and programs on the CU Denver campus (public affairs, education, health administration) and at the Anschutz Medical Campus (Schools of Medicine, Public Health, Pharmacy and Nursing)

Courses

As part of the MA degree, students may take between 6 and 18 credits of electives in this track, choosing from:

- ANTH 5000 - Special Topics in Anthropology
- ANTH 5014 - Medical Anthropology: Global Health
- ANTH 5040 - Anthropology of Food and Nutrition
- ANTH 5060 - Evolutionary Medicine
- ANTH 5080 - Global Health Practice
- ANTH 5090 - Political Economy of Drugs
- ANTH 5150 - Human Biocultural Adaptability

- ANTH 5180 - The Nature of Power
- ANTH 5290 - Anthropology and Public Health
- ANTH 5300 - Migrant Health
- ANTH 5350 - Anthropology of Globalization
- ANTH 5450 - Development and Conservation: Contemporary Issues
- ANTH 5460 - Development and Conservation: Theory and Practice
- ANTH 5600 - Medical Anthropology
- ANTH 5800 - Special Topics in Medical Anthropology
- ANTH 5200 - Gender in Cross-Cultural Perspective

Note: Students are encouraged to take elective courses in GIS mapping (geography), ecology (biology/anthropology), public policy, public health, epidemiology and biostatistics as it is relevant to their course of study.

ARCHAEOLOGY

The archaeological studies program concentrates on the study of past human societies using archaeological data collected in field and museum settings. While a quantitative and scientific approach is emphasized, the theoretical perspectives employed draw heavily from political economy and cultural ecology. The department offers a variety of theoretical, methodological and area courses, which may be supplemented by others in the geography and environmental sciences and history departments. Internships are available in local museums and historic preservation offices in the Denver metropolitan area.

Courses

- ANTH 5320 - Archaeology of Mexico and Central America
- ANTH 5330 - Lithic Analysis
- ANTH 5380 - Archaeology of Hunters-Gatherers
- ANTH 5400 - Archaeology of Power and Inequality
- ANTH 5570 - Landscape Archaeology
- ANTH 5580 - Neanderthals and the Origin of Modern Humans
- ANTH 5910 - Field Experience in Archaeology
- GEOG 5060 - Remote Sensing I: Introduction to Environmental Remote Sensing
- GEOG 5080 - Introduction to GIS
- GEOG 5220 - Environmental Impact Assessment
- HIST 5231 - History in Museums
- HIST 5232 - Historic Preservation
- HIST 5234 - Introduction to Public History

BIOLOGICAL ANTHROPOLOGY

The biological anthropology concentration is concerned with modern human biological diversity and the past evolutionary history that has led to such diversity. Students in this concentration develop a firm understanding of the evolutionary processes that lead to physical and behavioral variation in humans and nonhuman primates. The concentration also emphasizes the theoretical and quantitative methods

used to explore and explain this variation. Students may take courses in diverse areas including evolutionary biology, genetics, ecology, ethnobiology, epidemiology, nutrition, medical anthropology, paleoanthropology, paleontology and primatology. Because biological anthropology is multidisciplinary in nature, students are encouraged to consider courses offered outside the department.

Courses

- ANTH 5014 - Medical Anthropology: Global Health
- ANTH 5030 - Ethnobiology
- ANTH 5040 - Anthropology of Food and Nutrition
- ANTH 5060 - Evolutionary Medicine
- ANTH 5150 - Human Biocultural Adaptability
- ANTH 5500 - Advanced Issues in Human Evolution
- ANTH 5530 - Anthropological Genetics
- ANTH 5550 - Primate Comparative Anatomy
- ANTH 5560 - Human Ecology
- ANTH 5580 - Neanderthals and the Origin of Modern Humans
- ANTH 5640 - Darwinian Approach to Human Behavior
- BIOL 5074 - Human Reproductive Biology
- BIOL 5134 - Human Genetics
- BIOL 5494 - Population and Evolutionary Genetics
- HBSC 7031 - Human Ecology and Environmental Adaptation
- HBSC 7310 - Environmental Epidemiology

DEGREE TOTAL HOURS

Thesis Option: 30 Hours (including 4-6 hours of thesis)

Non-Thesis Option: 36 Hours

APPLIED MATHEMATICS, MS

- ▶ Graduate School Rules apply to this program.

Program Requirements

Students must present 30 hours of course work and maintain a 3.0 GPA or above for the MS degree. At least 24 of these hours must consist of graduate-level (numbered 5000 or higher) mathematics courses. The remaining 6 hours must be either mathematics courses numbered 5000 or above or approved courses outside the department numbered 4000 or above.

Up to 9 semester hours of prior course work may be transferred in (subject to approval); these must be at the 5000 level or above with a B- or better grade. Courses already applied toward another degree (graduate or undergraduate) cannot be used toward the MS degree in applied mathematics. Additionally, the following MATH courses will NOT count toward a graduate degree: MATH 5000-5009, 5010, 5012-5015, 5017, 5198, 5250, and 5830.

A student may devote from 4 to 6 hours (of the 30 required hours) to the writing of a thesis. Following completion of course work, all candidates must make a one-hour oral presentation before a committee consisting of three graduate faculty members.

Students must take either applied analysis or real analysis and applied linear algebra. Additionally, students must either complete the degree requirements for an MS without concentration area or must fulfill specific course work requirements for one of the following areas of specialization:

- Applied Probability
- Applied Statistics
- Discrete Mathematics
- Mathematics of Science and Engineering
- Numerical Analysis
- Operations Research

All master's degree students are encouraged to participate in the Math Clinic, a unique program in which students have an opportunity to work on real-world problems supplied by local businesses, research firms and government agencies.

For more detailed information about the applied mathematics MS, see www.math.ucdenver.edu/ms

ARCHITECTURE MARCH

The MArch is the college's accredited professional degree for students intending to seek licensure as architects. It is a three-and-one-half-year plan of study on the Denver campus that has been fully accredited by the National Architectural Accrediting Board (NAAB).

Prerequisites

- Students must complete the prerequisites of college-level trigonometry and physics before enrolling in ARCH 5310, Introduction to Building Technology. Since this class should be taken in

the first semester in order to stay on track for graduation, students are strongly encouraged to complete the trigonometry and physics requirements before beginning the MArch program.

- ARCH 5000, Math and Physics for Architects, is offered in the summer on a pass/fail basis. This class meets the prerequisite requirements. This class does not count toward the number of credits required for the MArch degree.
- A graphics workshop is recommended for students who do not have a background in architectural drawing and model building. This class is offered each year before the beginning of the fall semester.
- Students are also expected to have achieved a basic level of computer literacy and should be familiar with PC or Mac operating systems.

Program Requirements

Students with a bachelor's or master's degree unrelated to architecture must complete a sequence of course work and accumulate a minimum of 105 semester hours of credit. Students who have completed the college's BSArch or other preprofessional degree in architecture, or foreign non-NAAB-accredited professional degree, will be evaluated individually for advanced standing. These students will be advised and provided with an individualized plan of study commensurate with their previous degrees and experience, and will have to complete at least 60 semester hours of credit in residence within the College of Architecture and Planning.

Course Sequence

The MArch program is divided into six major components:

- studio design studies and seminars, 39 semester hours
- representational studies, 3 semester hours
- cultural studies including required elective, 15 semester hours
- technology studies including required elective, 21 semester hours
- professional studies including elective, 12 semester hours
- electives, 15 semester hours

A wide array of electives in these areas allows students to tailor their graduate studies to their own interests.

First Year

Fall

- ARCH 5010 - Introduction to Architectural Representation
- ARCH 5110 - Design Studio I
- ARCH 5111 - Architectural Graphics I
- ARCH 5210 - Introduction to Architecture
- ARCH 5310 - Building Construction I
- ARCH 5350 - Structures I

Total: 18 Hours

Spring

- ARCH 5120 - Design Studio II
- ARCH 5121 - Design Seminar II
- ARCH 5220 - History and Theory Architecture I
- ARCH 5360 - Structures II
- LDAR 6632 - Site Planning

Total: 18 Hours

Second Year

Fall

- ARCH 5130 - Design Studio III
- ARCH 5131 - Design Seminar III
- ARCH 5230 - History and Theory Architecture II
- ARCH 5330 - Sustainable Systems I
- ARCH 5420 - Digital Project Delivery
Elective* (3 semester hours)

Total: 18 Hours

Spring

- ARCH 5140 - Design Studio IV
- ARCH 5141 - Design Seminar IV
- ARCH 5240 - Human Factors in Design
- ARCH 5340 - Sustainable Systems II
- ARCH 5410 - Professional Practice
Elective* (3 semester hours)

Total: 18 Hours

Third Year

Fall

- ARCH 6151 - Design Seminar V
- ARCH 6172 - Capstone Preparatory Seminar
Electives* (9 semester hours)

Total: 18 Hours

Spring

- ARCH 6170 - Capstone Design Studio
 - ARCH 6171 - Capstone Design Seminar
- Electives* (9 semester hours)

Total: 15 Hours

* Students must take 3 elective semester hours in cultural studies, 3 elective semester hours in professional studies, 3 elective semester hours in technology studies and 15 elective semester hours, 9 of which must be taken in the Architecture department.

BIOENGINEERING MS

- ▶ Graduate School Rules apply to this program.

Master of Science (MS) Degree Program

The master of science degree is offered to students with an undergraduate degree in the life sciences or engineering. Students complete the degree in one to two years with the choice of a project or thesis, either of which may be completed in academia or industry. Program details are available on the Department of Bioengineering website at ucdenver.edu/bioengineering.

BIOLOGY MS

- ▶ Graduate School Rules apply to this program.

Graduate MS Program Director: Michael Wunder

Office: Science, 4124

Telephone: 303-556-8870

E-mail: michael.wunder@ucdenver.edu

Website: clas.ucdenver.edu/biology/grad.html

Requirements for Admission

Applicants must hold a baccalaureate degree from an accredited college or university, awarded within the preceding ten years. Students whose biology degree was awarded more than 10 years prior to entrance to the CU Denver program will be expected to retake or show competence in the biology core courses. Successful applicants generally have earned an overall GPA of 3.0 or better. Most applicants have an undergraduate major in biology or a related field. Students entering the master's program in biology must have completed 2 semesters of general biology (lecture and laboratory); 2 semesters of any combination of chemical, physical, or mathematical sciences; and one semester of applied or biological statistics. Additional prerequisite requirements may be set by individual faculty. Please contact an individual faculty member to learn of any additional requirements to join their program. Although a deficit of one prerequisite course may be allowed, this must be completed within the first semester of entering the master's program and will not apply toward the degree. The general

GRE is required of all applicants, with scores above the 50th percentile required on each of the three sections (verbal, quantitative and analytical writing).

Applicants to the master's in biology program must have a declared area of specialization that aligns with the research focus of a biology graduate faculty member. Faculty expertise can be found under Graduate Faculty Profiles on the Department of Integrative Biology website. Students must contact prospective faculty advisors to determine if openings are available within the faculty member's program.

Application deadline is February 1 for domestic U.S. and international students. Applications submitted after the deadline date WILL NOT be considered. Before submitting an application, students must refer to the Biology MS Program website for additional application criteria. Application to the master's in biology program is through CU Denver Admissions.

Degree Requirements

All course work taken within the Department of Integrative Biology and applied toward the degree must be at the 5000 level or above. A course plan is developed jointly by the student and faculty advisor and is approved by the student's graduate committee. In addition to regular meetings throughout the semester, all students must meet with their faculty advisor at the beginning of each semester to determine course schedules and upcoming deadlines. A pre-registration agreement form is signed by the student and advisor, and then filed with the associate chair for graduate studies in biology to ensure that degree requirements are met, and that selected courses will be applicable toward the MS degree.

With the advisor's and/or graduate committee's approval, a maximum of 6 semester hours of course work at the 4000 level taken outside the department may be applied toward the degree. At least 18 semester hours must be taken from faculty in the Department of Integrative Biology at CU Denver. Upon approval of the master's program, as many as 12 semester hours may be transferred into the program.

Students must form a three-person committee consisting of members of the graduate faculty, with at least two from the rostered CU Denver graduate faculty. Committee membership must be approved by the faculty advisor. The master's degree requires 30 semester hours, including a minimum of 4 and no more than 6 thesis hours. Students may also count a maximum of 7 hours (total) of graduate-level independent study and/or internship. Graduate internship or independent study projects must be research-based. In addition, two semesters of graduate seminar (BIOL 6655), one semester of Biological Data Analysis (BIOL 6764), and one semester of Principles of Biological Research (BIOL 5705) are required. The Biology MS also requires a research proposal defense and a research thesis defense.

Required Courses:

- BIOL 6655 - Seminar
- BIOL 6764 - Biological Data Analysis
- BIOL 5705 - Principles of Biological Research

Financial Assistance

Financial aid for graduate students may be available from university and/or state fellowships, research assistantships sponsored by individual faculty members and teaching assistantships. Teaching assistantships are available on a competitive basis through application. Students should refer to the department web site for information on how to apply for a teaching assistantship.

Contact the Office of Financial Aid for information about fellowships, or the Graduate MS Program Director for information about research and teaching assistantships.

Return to the Department of Integrative Biology

BUSINESS ADMINISTRATION -- HEALTH ADMINISTRATION MBA

Program Director: Errol L. Biggs

Telephone: 303-315-8851

E-mail: errol.biggs@ucdenver.edu

[Graduate Program in Health Administration](#)

The graduate program in health administration is consistently ranked as a top program in the United States and attracts students with a variety of backgrounds and experience levels, which further enriches the classroom experience. The HA program is accredited by the Commission on Accreditation of Healthcare Management Education. The program is the only such program in the Rocky Mountain region and was started in 1968. Full-time faculty with distinguished research records and a select group of practicing managers provide students with the latest thinking on the most important health issues.

[Degree Requirements](#)

The curriculum of the MBA with an emphasis in Health Administration is a synthesis of management concepts and techniques that are applicable to any economic organization, and tools that can be specifically applied to health services systems. The program emphasizes skills that strengthen basic analytic and decision-making processes used by top level managers in selecting broad strategies and by junior managers in administering sub-units in healthcare organizations.

Students enrolled in the Master of Business Administration with an emphasis in Health Administration must complete a minimum of 51 semester hours of graduate-level course work to receive their degree. The curriculum is based on a series of structured learning sequences. Most of the courses are available in the evening to enable working students to pursue the degree on a part-time basis. The specific course requirements are as follows:

MBA Core: (27 hours)

- BUSN 6521 - Leading Individuals and Teams
- BUSN 6530 - Data Analysis for Managers
- BUSN 6541 - Legal and Ethical Environment of Business (Health Section)
- BUSN 6550 - Analyzing and Interpreting Accounting Information

- BUSN 6561 - Marketing Management (Health Section)
- BUSN 6620 - Applied Economics for Managers
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management
- BUSN 6711 - Strategic Management (Health Section) *This course is intended to be taken in your last Spring semester.

Health Administration Core: (15 hours)

- HLTH 6010 - Health Care Systems
- HLTH 6040 - Healthcare Economics
- HLTH 6070 - International Health Policy and Management
- HLTH 6911 - Health Field Studies *This course is intended to be taken in your last Spring semester. Prereq: HLTH 6010 or consent of instructor, minimum 3.0 cumulative GPA.
- HLTH 6770 - Healthcare Quality and Outcomes

Health Administration Information Technology Elective: (3 hours)

Select 1 of the following courses:

- HLTH 6071 - Introduction To Health Information Technology
- HLTH 6072 - Management of Healthcare Information Technology

The 2nd Health Administration Information Technology Elective may be used as Health Administration Elective.

Health Administration Electives: (6 hours)

Select 2 of the following courses:

- ENTP 6801 - Building Biotechnology
- ENTP 6848 - Leadership in New Ventures
- HLTH 6075 - International Health Travel Study
- HLTH 6740 - Profiles in Health Care

*HLTH 6071 or HLTH 6072 can be selected if not used as Health Administration Information Technology Elective.

Specialized Tracks in the MBA with an Emphasis in Health Administration

Each track carries its own specific course requirements. To provide a variety of perspectives and experiences within a specific area of health administration, each track includes courses that span various departments within the Business School, other schools at CU Denver, and other University of Colorado campuses.

- International Health Management and Policy Track
- Financial Management Track
- Health Information Technology Management Track

Notes and Restrictions

Administrative Residency. An administrative residency is optional but recommended for students with limited healthcare experience. The program faculty provide assistance to students in securing the residency, as well as regular consultation during the residency period. The program has been very successful in placing graduates in administrative residencies.

Length of program. A maximum of five years and one semester is allowed to complete the Health Administration program.

BUSINESS ADMINISTRATION MBA

Program Director: Woodrow Eckard

Telephone: 303-315-8470

E-mail: Woody.Eckard@ucdenver.edu

The Master of Business Administration (MBA) program provides a general background in management and administration. This background enables the student to have the breadth of exposure and depth of knowledge required for an advanced-level management career. The program is devoted to developing the concepts, analytical tools and communication skills required for competent and responsible administration of an enterprise viewed in its entirety, within its social, political and economic environment.

The professional MBA program allows the scheduling of classes with maximum flexibility so students can progress through the program at their own pace, by taking as little as one class per semester or as many as five classes per semester, at times that are convenient with their work schedule. The program can be completed in as little as 16 months or as long as five years plus one semester.

Online courses add additional flexibility. Students may complete all degree requirements online, or combine online and campus courses to broaden the choice of electives or to fit a business travel schedule or personal learning style. Choice of online electives is limited.

The MBA program is also available in different configurations: 11-Month MBA (full time, see relevant section), Health Administration and the Executive MBA (see relevant section). All MBAs have the same curriculum requirements; they differ only in their focus, the flexibility of course scheduling, and the time required to complete the program. The 11-Month and Executive MBAs are lockstep programs (no open electives, no specialized tracks), where students form a cohort and complete all program requirements together. No course transfers, waivers or substitutions are permitted.

Program Requirements

Core Requirements: (30 hours)

- BUSN 6520 - Leading Individuals and Teams
- BUSN 6530 - Data Analysis for Managers
- BUSN 6540 - Legal and Ethical Environment of Business

- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6560 - Marketing Management
- BUSN 6610 - Information Systems Management and Strategy
- BUSN 6620 - Applied Economics for Managers
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management
- BUSN 6710 - Strategic Management

Core Substitution: Students with extensive and comparable course work in a particular core subject area may petition to substitute a higher-level graduate course on the basis of prior undergraduate or graduate course work taken at a regionally accredited college or university for the corresponding core class. This does not waive the 48-hour requirement. If a core course is substituted, another graduate level course in the same functional area must be used as a substitute so that the student completes a total of 48 semester hours.

International Elective: (3 hours)

Any course numbered 6000 or higher with INTB prefix or any graduate level business course that is cross-listed with an INTB prefix. May also include the following: ACCT 6430 International Taxation, ENTP 6826 International Entrepreneurship or ENTP 6827 Global Action Projects for International Entrepreneurship. Travel studies offered by Business School will also apply.

Free Electives: (15 hours)

Any course numbered 6800 or higher with BUSN prefix or any course numbered 6000 or higher with prefix of ACCT, BANA, CMDT, ENTP, FNCE, INTB, ISMG, MGMT, MKTG or RISK. Students may also select a MBA Specialization.

Total: 48 Hours

MBA Specializations

Graduate students will have an opportunity to take specialized tracks within the professional MBA program by completing a pre-specified program of elective courses. The following 15 specializations are available:

- Bioinnovation and Entrepreneurship
- Business Intelligence
- Business Strategy
- Change Management
- Enterprise Technology Management
- Entrepreneurship
- Finance
- Human Resources Management
- Leadership
- Information Systems
- International Business
- Managing for Sustainability

Marketing
Risk Management and Insurance
Sports and Entertainment Management

Bioinnovation and Entrepreneurship

The Jake Jobs Center for Entrepreneurship is pleased to offer a in Bioinnovation and Entrepreneurship specialization, the first of its kind to be offered by an AACSB accredited graduate business school in the country. Taking advantage of the incredible Colorado biocluster, in collaboration with faculty at Anschutz Medical Campus, this specialization is one-of-a-kind, and is geared to helping bioentrepreneurs achieve commercial success. Additionally, you have opportunities to participate in a number of Jake Jobs Center programs; including the annual business plan competition, internships in area businesses, speaker programs with local entrepreneurs, and connection with new ventures.

Select 1 of the following:

- ENTP 6801 - Building Biotechnology
- ENTP 6802 - Regulatory Environment of Life Science Innovation

Select 1 of the following:

- ENTP 6620 - New Venture Operations and Project Management
- ENTP 6642 - Exploring Social Entrepreneurship
- ENTP 6644 - Social Entrepreneurship in the Developing World
- ENTP 6807 - Small Business Marketing and Personal Branding
- ENTP 6822 - Legal and Ethical Issues of Entrepreneurship
- ENTP 6824 - Entrepreneurial Financial Management
- ENTP 6826 - International Entrepreneurship
- ENTP 6838 - Real Estate for the Entrepreneur
- ENTP 6842 - New Concept Development
- ENTP 6848 - Leadership in New Ventures
- ENTP 6862 - Strategic Web Development

Select 1 of the following:

- ENTP 6020 - The Business Plan
- ENTP 6021 - Corporate Entrepreneurship

Select 1 of the following:

ENTP 6000 or higher excluding ENTP 6801 and 6802

Business Intelligence

Modern business runs on information. Success may depend on the quality of the collection and analysis. Business Intelligence (BI) systems combine operational data with analytical tools to present complex and competitive information to planners and decision makers. This improves the timeliness and quality of inputs to the decision process.

Select 4 of the following:

- ISMG 6080 - Database Management Systems
- ISMG 6220 - Business Intelligence Systems
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6480 - Data Warehouse and Administration
- ISMG 6810 - Business Intelligence in Healthcare
- ISMG 6820 - Business Intelligence and Financial Modeling

Business Strategy

Business Strategy examines the development of firm strategic plans and implementation including careful resource allocation and leadership skills essential for organizations to effectively meet their objectives. With this specialization, you get the necessary skills and knowledge used to develop and implement business strategy.

Select 4 of the following:

- ENTP 6021 - Corporate Entrepreneurship
 - ENTP 6826 - International Entrepreneurship
- OR
- INTB 6200 - International Business Policy
 - INTB 6022 - International Business Negotiations
- OR
- INTB 6800 - Special Topics in International Business
 - MGMT 6320 - Leading Organizational Change
 - MGMT 6360 - Designing Effective Organizations
 - MGMT 6730 - Human Resources Management: Performance Management
 - MGMT 6803 - Visionary Leadership
 - MKTG 6010 - Marketing Strategy, Evaluation and Development

May select up to 2 of the following FNCE courses:

- FNCE 6310 - Financial Decisions and Policies
 - FNCE 6340 - Business Firm Valuation
 - FNCE 6410 - Real Options and Decisions Under Uncertainty
 - FNCE 6411 - International Corporate Governance
 - FNCE 6420 - Mergers and Acquisitions
 - FNCE 6480 - Financial Modeling
 - FNCE 6909 - Corporate Risk Management
- OR
- RISK 6909 - Corporate Risk Management

Change Management

Change is inevitable. Even when it is advantageous it can be difficult for organizations and people. Add the Change Management specialization to your degree and gain the necessary tools to help an organization understand the stages and benefits of change.

Required courses:

- MGMT 6320 - Leading Organizational Change
- MGMT 6360 - Designing Effective Organizations

Select 2 of the following:

- MGMT 6380 - Managing People for Competitive Advantage
- MGMT 6730 - Human Resources Management: Performance Management
- MGMT 6803 - Visionary Leadership
- MGMT 6804 - Bargaining and Negotiation
- MGMT 6808 - Leadership Development

Enterprise Technology Management

Gain a better understanding of business driven technology management. Add the Enterprise Technology Management specialization to your degree and focus on Information Technology as a prime driver and enabler of business strategy. To specialize in ETM you do not have to have a background in business programming however you should take Information Systems Management (BUSN6610) from the core MBA prior to taking the courses in this specialization.

Select four of the following:

- ISMG 6040 - Business Process Management
- ISMG 6120 - Internet and Mobile Technologies
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6450 - IT Project Management
- ISMG 6460 - Emerging Technologies
- ISMG 6830 - IT Governance and Service Management

Entrepreneurship

The Entrepreneurship specialization provides a range of focused courses geared towards individuals looking to start their own business. All courses are taught at the Jake Jobs Center for Entrepreneurship located in the heart of downtown Denver. Complete four entrepreneurship courses to receive a specialization in Entrepreneurship. Additionally, you have opportunities to participate in a number of Jake Jobs Center programs; including the annual business plan competition, internships in area businesses, speaker programs with local entrepreneurs, and connection with new ventures.

Select 2 of the following courses:

- ENTP 6642 - Exploring Social Entrepreneurship
- ENTP 6807 - Small Business Marketing and Personal Branding
- ENTP 6824 - Entrepreneurial Financial Management
- ENTP 6826 - International Entrepreneurship
- ENTP 6834 - Entrepreneurial Marketing
- ENTP 6842 - New Concept Development
- ENTP 6620 - New Venture Operations and Project Management
- ENTP 6644 - Social Entrepreneurship in the Developing World
- ENTP 6800 - Special Topics in Entrepreneurship
- ENTP 6822 - Legal and Ethical Issues of Entrepreneurship
- ENTP 6838 - Real Estate for the Entrepreneur
- ENTP 6848 - Leadership in New Ventures

Select 1 of the following courses:

- ENTP 6020 - The Business Plan
- ENTP 6021 - Corporate Entrepreneurship

Select 1: Any ENTP 6000 or higher except for ENTP 6801 or ENTP 6802

Finance

Adding the finance specialization to your degree gives you skills in different financial functional areas including corporate, investments, and financial institutions. You get the tools and skill sets you need for finance decision making and investment.

Required course:

- FNCE 6330 - Investment Management Analysis
- Select 3 FNCE/CMDT/RISK 6*** courses

Human Resources Management

A company is a group of people working toward a common goal. Add the Human Resources Management specialization to your degree, and get advanced knowledge and tools and techniques you can use in recruiting, hiring, developing, motivating and rewarding managerial and non-managerial employees. Also learn about technology solutions such as designing and delivering online training and performance management programs.

- MGMT 6380 - Managing People for Competitive Advantage
- Select 3 of the following:
- MGMT 6040 - Managing Global Talent
- OR
- INTB 6040 - Managing Global Talent
 - MGMT 6710 - Human Resources Management: Staffing
 - MGMT 6720 - Human Resources Management: Training
 - MGMT 6730 - Human Resources Management: Performance Management
 - MGMT 6740 - Human Resources Management: Compensation
 - MGMT 6750 - HRM: Investing in People: HR Analytics
 - MGMT 6808 - Leadership Development

Information Systems

You want to be sure you are learning skills relevant to business now. Information systems have become ubiquitous. Managers now understand the need for IS and the benefits that provide an edge on the competition. Information systems impact accounting, financing, marketing, management; in fact every area of business has been changed by technology.

Select 4 of the following:

- ISMG 6040 - Business Process Management
- ISMG 6060 - Analysis, Modeling and Design
- ISMG 6080 - Database Management Systems
- ISMG 6120 - Internet and Mobile Technologies
- ISMG 6450 - IT Project Management

International Business

International Business is quickly becoming simply business. Adding a specialization in International Business to your degree will help you to work internationally, and with international companies. From cross cultural management to legal aspects to marketing internationally. Prepare yourself for how business works today.

Required course:

- INTB 6000 - Introduction to International Business
- OR
- ENTP 6826 - International Entrepreneurship

Select 3 of the following:

Any INTB 6*** course excluding INTB 6000 and INTB 6200. May include the following courses that are not INTB: ACCT 6430 (International Taxation), MGMT 6834 (London Calling: Global Sports and Entertainment-Travel Study)

Leadership

Become a more effective leader with this specialization as you concentrate on developing key leadership skills and learn about areas where leadership matters most.

Select 4 of the following:

- ENTP 6848 - Leadership in New Ventures
- BANA 6650 - Project Management
- INTB 6000 - Introduction to International Business
- MGMT 6803 - Visionary Leadership
- MGMT 6804 - Bargaining and Negotiation
- MGMT 6808 - Leadership Development
- MGMT 6821 - Managing for Sustainability
- MGMT 6822 - Business Ethics and Corporate Social Responsibility
- MGMT 6823 - The Sustainable Business Opportunity
- MGMT 6824 - Sustainable Business/CSR Field Study (prereq: one sustainable business elective)

Managing for Sustainability

More than ever before, major companies and entrepreneurial ventures are seeking competitive advantage and success by embracing sustainability — social and environmental responsibility — as a core business strategy. Farsighted leaders recognize that this new way of doing business requires skills in sustainable management including social entrepreneurialism, eco-efficiency, inter-disciplinary problem solving and a triple bottom line approach of economics, environment and society. Make your degree a green MBA by adding the Managing for Sustainability specialization and learn what businesses are facing in a world where resources are scarce, social safety nets are declining, and customers and commentators are concerned about a company's investment in corporate responsibility.

Select 4 of the following:

- ACCT 6285 - Accounting and Finance for Sustainability
- BANA 6730 - Supply Chain Management
- ENTP 6642 - Exploring Social Entrepreneurship
- ENTP 6644 - Social Entrepreneurship in the Developing World

- ENTP 6800 - Special Topics in Entrepreneurship
 - INTB 6870 - Global Climate Change
 - OR
 - BUSN 6870 - Global Climate Change
 - MGMT 6821 - Managing for Sustainability
 - MGMT 6822 - Business Ethics and Corporate Social Responsibility
 - MGMT 6823 - The Sustainable Business Opportunity
 - MGMT 6824 - Sustainable Business/CSR Field Study
 - MKTG 6830 - Marketing & Global Sustainability
 - MGMT 6840 - Independent Study (by petition only)
 - MGMT 5939 - Internship (by petition only)
 - OR
 - MKTG 5939 - Internship (by petition only)
- Students may take 1 sustainability course outside the Business School from another CU Denver school/college/department (by petition only).

Marketing

Marketing is about building long-term relationships between your firm and those who buy its offerings. Just how important is marketing to a firm's success? Well without it there would be no way to communicate with current or potential customers and no revenues. That's right, all of a firm's revenues flow through the marketing function and the way a firm communicates with its markets is through its offerings. Given its critical roles in the success of any firm you might want to develop a deeper understanding of the issues it addresses and a more complete toolkit for analyzing its impact. This is what an MBA degree with a Marketing specialization from the University of Colorado Denver is designed to do. Your MBA-based Marketing specialization will give you the skills and confidence needed to effectively manage a firm and in particular those aspects associated with building profitable, long-term, business relationships. Since Marketing is such a broad area that affects many aspects of business we provide you considerable flexibility to select courses that are appropriate for your chosen career. In fact, we recommend that before selecting your marketing electives you speak with one of our marketing professors for additional insights on which courses are better suited to your situation.

Required Courses:

- MKTG 6010 - Marketing Strategy, Evaluation and Development
 - MKTG 6050 - Marketing Research
- Select 2 of the following:
MKTG 6*** courses MKTG 5939 (by petition only)

Risk Management and Insurance

The specialization in Risk Management and Insurance is designed for students who are interested in pursuing or advancing a career in the insurance industry, or other areas of risk management.

Required:

- FNCE 6809 - Principles of Risk and Insurance
- OR
- RISK 6809 - Principles of Risk Management & Insurance

- FNCE 6909 - Corporate Risk Management
OR
- RISK 6909 - Corporate Risk Management
Select 1 of the following:
- FNCE 6129 - Practical Enterprise Risk Management
OR
- RISK 6129 - Practical Enterprise Risk Management
- FNCE 6330 - Investment Management Analysis
- FNCE 6350 - Financial Innovations
- FNCE 6360 - Management of Financial Institutions
- FNCE 6380 - Futures and Options
- FNCE 6382 - Survey of Financial and Commodity Derivatives
- FNCE 6410 - Real Options and Decisions Under Uncertainty
- FNCE 6480 - Financial Modeling
- FNCE 6482 - Advanced Portfolio Management
OR
- CMDT 6482 - Advanced Portofolio Management
Select 1 of the following:
- BUSN 6830 - Business and the Natural Environment
- INTB 6870 - Global Climate Change
OR
- BUSN 6870 - Global Climate Change
- BANA 6650 - Project Management
- ENTP 6824 - Entrepreneurial Financial Management
- HLTH 6040 - Healthcare Economics (by petition only-based on space availability)
- FNCE 6802 - Foundations of Commodities
OR
- CMDT 6802 - Foundations of Commodities
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6450 - IT Project Management
- MGMT 6823 - The Sustainable Business Opportunity
- FNCE 6509 - Global Risk Management
OR
- RISK 6509 - Global Risk Management

Sports and Entertainment Management

The Sports industry is the sixth largest industry in the United States and the Sports and Entertainment industries are converging. To become a professional in these industries, you need special skills. Through this specialization, you gain the tools to get ahead in both the sports management and entertainment management industries.

Select 4 of the following:

- BUSN 6860 - Finance in the Sports Entertainment Industries
- MGMT 6830 - Sports and Entertainment Management
- MGMT 6832 - Law and Negotiation in the Sports/ Entertainment Industries
- MGMT 6820 - Management Field Studies

- MGMT 5939 - Internship (in Sports and Entertainment field; by petition only)
- MGMT 6834 - London Calling: Global Sports and Entertainment Management (Travel Study)

BUSINESS ADMINISTRATION: 11-MONTH MBA

Program Director: Gary Colbert

Operations Director: Debbie Capaldi Follenweider

E-mail: 11-monthMBA@ucdenver.edu

Telephone: 303-315-8800

Website: www.business.ucdenver.edu/11-MonthMBA

The 11-Month MBA is an accelerated full-time program that brings academically superior students together with select research and teaching faculty. The program enables students to focus their energies in a concentrated, total-immersion program of study earning a nationally accredited, 48-semester-hour MBA degree in just under a year.

The 11-Month MBA consists of five eight-week terms, three courses per term, plus a two-week international business course abroad. In addition to a minimum of 18 hours of class time each week, the 11-Month MBA students spend an average of 30 hours a week on homework. Students should expect a minimum time commitment of 48 hours per week to successfully complete this program.

Admission and Application Process

The admissions committee considers each candidate's entire record of achievement demonstrated through academic transcripts, GMAT scores, essays, letters of recommendation, personal interviews (if needed, will be scheduled at the discretion of the admission committee), work experience and extracurricular and community activities.

Previous Education

Applicants' complete academic records, including GPAs and previous course work are considered. Undergraduate degrees do not have to be in business, but they must be from regionally accredited colleges or universities.

Testing

The GMAT is a requirement for application to the 11-Month MBA Program. If you take the GMAT more than once, we will evaluate your application using the highest GMAT score. The GMAT score for students admitted into the 11-Month MBA Program has averaged around 600. Students must score a minimum 500 to be considered for admission to the 11-Month MBA Program. The GMAT website is www.mba.com.

The 11-Month MBA also requires a highly developed proficiency in written and oral English. International applicants whose first language is not English must take the TOEFL or IELTS exam and earn a minimum score of 575 (PBT)/ 232 (CBT)/ 90 (IBT) TOEFL or 6.5 IELTS to be considered for admission to the 11-Month MBA Program. Information on taking the TOEFL or IELTS can be obtained by visiting www.ets.org and www.ielts.org.

Work Experience

Students in the 11-Month MBA Program have an average of six years of work experience. However, experience ranges from the recently graduated to more than 30 years in business. Professional experience strengthens the application, since it adds relevance and depth to the learning process and enables candidates to contribute to and benefit from the knowledge of fellow classmates in the accelerated time frame of the program.

Applications

The following are required for consideration of admission to the program.

- application fee (domestic or international as appropriate)
- online application for graduate admission
- two (2) letters of recommendation from professional or academic acquaintances who are familiar with the applicant's academic/professional competence
- GMAT scores taken in the last five years sent directly to the graduate admissions office from the Educational Testing Service. When registering for the GMAT, use code MPB-OG-65
- two (2) official transcripts from each school, college or university previously attended past high school, sent directly to the graduate admissions office. A minimum baccalaureate degree is required
- include answers to the four essay questions demonstrating commitment to an accelerated MBA program
- a resumé outlining work experience
- for international students, a minimum official score of 575/232/90 TOEFL (TOEFL school code: 4875) or 6.5 IELTS is required to apply -- test scores are valid for two years after test date

The priority date for domestic applications is June 15 (May 15 for international students). Applications (for domestic students) and current fee information are available at www.business.ucdenver.edu/11-monthMBA.

All of the required admission materials should be sent to:

University of Colorado Denver
The Business School
Graduate Admissions
Campus Box 165, P.O. Box 173364
Denver, CO 80127-3364

For further information, brochures and application materials, contact the 11-Month MBA Program at 303-315-8800 or 11-monthMBA@ucdenver.edu.

The 11-Month MBA uses a rolling admission system. The committee reviews applications when they are complete in all respects, including transcripts, GMAT scores and letters of recommendation. Candidates are encouraged to submit their application as early in the process as possible. Completed applications are reviewed until early August; applications received after June 15 will be reviewed on a space-available basis. International applicants should have their completed applications in by May 15, to leave them sufficient time for visa and travel arrangements if they are admitted.

A personal interview may also be required for admission to the 11-Month MBA.

11-Month MBA Award/Loans

General financial assistance is available for qualified students. Students should apply directly to the Denver campus Office of Financial Aid. Call 303-556-2886 for information and forms. In addition, an 11-Month MBA merit-based award is available only to students in the 11-Month MBA. Other Business School scholarships are also available to all MBA students. Information available at www.business.ucdenver.edu/11-monthMBA.

Degree Requirements

Students in the 11-month MBA complete 10 MBA core courses, one international business course (conducted abroad) and five special topics courses. All courses require that students work in teams. Due to the program's cohort structure, individual elective options are not available to 11-month MBA students. **No courses may be waived, substituted or transferred into the program.** If a student finds it necessary to leave the accelerated program, credits already earned may be transferred to the professional MBA program on campus.

MBA Core Courses

- BUSN 6520 - Leading Individuals and Teams
- BUSN 6530 - Data Analysis for Managers
- BUSN 6540 - Legal and Ethical Environment of Business
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6560 - Marketing Management
- BUSN 6610 - Information Systems Management and Strategy
- BUSN 6620 - Applied Economics for Managers
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management
- BUSN 6710 - Strategic Management

Total: 30 Hours

International Course Abroad

The international course, which involves travel abroad, is completed as an all-day, two-week intensive course.

Special Topics Courses

The special topics courses, revised each year, are selected to create a broad understanding of the most current business issues. These requirements are subject to change.

BUSINESS ANALYTICS MS

Program Director: Marlene A. Smith

Telephone: 303-315-8421

E-mail: Ma.Smith@ucdenver.edu

The MS in Business Analytics focuses on modeling and applications which prepares you for a career as a decision sciences specialist in industry or government. Today, companies in every conceivable industry are reaping the benefits of using formal mathematical models to assist them in addressing complex business problems. Business Analytics graduates hold positions that bridge the gap between operations research/statistics specialists and management.

Learn to apply quantitative methods to real-world problems using modern methodologies adopted from statistics, operations research, and management science. The MS in Business Analytics focuses on applications of mathematical models in the workplace rather than the development of new research techniques. The managerial emphasis of our degree is accomplished through a comprehensive set of elective and required coursework such as data analysis, operations management, forecasting, project management, simulation, data mining (predictive analytics), and supply chain management. A required practicum course provides students with the opportunity (under the direction of faculty) to solve a real, complex workplace problem for a local Denver organization.

Requirements for the MS degree in Business Analytics are met by the following courses and options:

Core Required Courses: (21 hours)

- BUSN 6630 - Management of Operations
- BANA 6610 - Statistics for Business Analytics
- BANA 6620 - Computing for Business Analytics
- BANA 6630 - Business Forecasting
- BANA 6640 - Decision Analysis
- BANA 6650 - Project Management
- BANA 6910 - Business Analytics Practicum

*BANA 6910 is the capstone course and is intended to be taken near the end of your program.

Electives: (9 hours)

Select 3 courses: these electives must be BANA courses numbered 6000 or higher or MKTG 6050, Marketing Research.

Total: 30 Hours

Notes and Restrictions

Students are not required to take a comprehensive examination or complete a thesis in the major field.

Note: Business School MS degrees typically allow students to transfer in 9 semester hours from another university. However, the MS in Business Analytics (BANA) allows students to petition to have a maximum of 6 semester hours transfer from another university. The transfer of *required* courses must closely reflect the educational objectives of the Master's degree in Business Analytics. The evaluation of substitute courses will include syllabi evaluation and the accreditation of the transferring institution.

Prerequisite course work:

Useable knowledge of spreadsheets.

CHEMISTRY MS

- ▶ Graduate School Rules apply to this program

Program Director: Xiaotai Wang

Email: Xiaotai.Wang@ucdenver.edu

Office: SI 4129A

Phone: 303-556-6711

Requirements for Admission

Students must meet the Downtown Campus Graduate School admission requirements with specific chemistry requirements as follows:

- Undergraduate GPA of at least 3.0.
- Undergraduate major in chemistry essentially equivalent to the one offered at CU Denver (see the undergraduate requirements), including two semesters of organic, analytical and physical chemistry with laboratories and one semester of inorganic chemistry. No student will be admitted to the graduate program who is not within two classes of meeting the undergraduate requirements.
- GRE examination is recommended, as is the advanced chemistry GRE examination.
- International students have additional admission requirements concerning immigration status, proof of financial responsibility and acceptable TOEFL scores.
- Applicants who fail to meet the full admission standards may be offered provisional admission.

Prospective students are encouraged to contact the graduate program director or visit the chemistry department website for additional details concerning the chemistry program, admission procedures, financial assistance and faculty research interests.

General Program Requirements

At the heart of the graduate program is a set of four core graduate courses in the fields of analytical, inorganic, organic and physical chemistry. A student must qualify in order to register for any core graduate class, either by passing a qualifying examination in that field or by passing the equivalent undergraduate class in that area at CU Denver with a grade of *B* (3.0) or better. The qualifying

examinations are administered each fall and spring during the week before classes begin. They are required for all entering students. The purpose of these examinations is to evaluate a student's background in the basic areas of chemistry. The examinations are American Chemical Society standardized tests in the four core areas. All entering students are required to qualify in all four core fields during their first year in the graduate program. Individual core classes may have additional prerequisites.

Depending on the program option that she/he selects, a student will be required to pass either three (Plan I) or all four (Plan II) of the graduate core courses with no grade in a core course below *B-* (2.7).

The remaining course work for the degree will consist of regular graduate offerings in chemistry, a limited number of which may be substituted by approved classes in related fields. In particular, students interested in interdisciplinary areas, such as biochemistry or environmental chemistry, are encouraged to take cognate courses outside the chemistry department. The chemistry graduate program director must approve in advance any graduate class taken outside the department that is to count toward the degree. All students are required to annually submit an updated program plan for approval and to have their progress evaluated by the graduate program director.

Specific Degree Requirements

There are two options for obtaining a master's degree from the Department of Chemistry: Plan I, the thesis option, and Plan II, the course work emphasis option. All students must complete at least 3 semester hours of master's report (CHEM 6960). A student is allowed to participate in the thesis option only after the successful completion of the master's report with the proposed advisor, and upon the mutual agreement of both the student and advisor that the student is prepared to work on a master's thesis. Students who select the course work emphasis option may petition to have up to 3 additional semester hours of master's report research substitute for an equivalent number of course work hours.

Plan I. Thesis Option

Plan I is a research-oriented program involving a minimum of 30 semester hours with the following requirements:

- 21-23 semester hours of formal course work, including three of the four graduate core courses
- 4-6 semester hours of CHEM 6950, Master's Thesis research; successful completion of the thesis research includes the presentation of the results at a departmental seminar
- 3 semester hours of CHEM 6960, Master's Report research
- a grade of *B-* (2.7) or better in all courses completed: *B-* (2.7) or better in all core courses
- a cumulative GPA of 3.0 or better in all courses taken as a graduate student
- an acceptable formal thesis consistent with the guidelines of the Graduate School
- successful oral defense of the master's thesis before a committee of at least three graduate faculty members, two of whom must be tenure track faculty members in the chemistry department
- compliance with all Graduate School Rules
- all work must be completed within five years of completion of the first graduate class in the department

Plan I thesis research must be conducted under the direct supervision of a tenure-track faculty member of the Downtown Campus Department of Chemistry. Plan I students must take a minimum of 15 semester hours of formal course work in chemistry at the 5000 level or above. Students may petition the graduate program director in advance for permission to take one or two courses at the graduate level outside of chemistry that would count toward the requirements for an MS in chemistry.

Plan II. Course Work Emphasis Option

Plan II is a course work-oriented program involving a minimum of 33 semester hours with the following requirements:

- 27-30 semester hours of formal course work, including all four graduate core courses
- at least 3 (but not more than 6) semester hours of CHEM 6960, Master's Report, research
- a grade of *B-* (2.7 or better in all courses completed; *B-* (2.7) or better in all core courses
- a cumulative GPA of 3.0 or better in all courses taken as a graduate student
- a final research report
- presentation of the research project in a final seminar
- successful defense of the project before a committee of at least three graduate faculty members, one of whom must be a tenure-track faculty member in the chemistry department
- compliance with all Graduate School Rules
- all work must be completed within five years of completion of the first graduate class in the department

A Plan II student may petition the graduate program director to substitute up to 3 semester hours of master's report (CHEM 6960) research, beyond the required minimum, for an equivalent number of semester hours of formal course work. Approval will be perfunctory for research performed with the support and under the direct supervision of a faculty member in the Department of Chemistry. Plan II students must take a minimum of 24 semester hours of formal course work in chemistry at the 5000 level or above. Students may petition the graduate program director in advance for permission to take up to two courses at the graduate level outside of chemistry that would count toward the requirements for an MS in chemistry.

CIVIL ENGINEERING MS AND MENG

- ▶ Graduate School Rules apply to these programs

Graduate Degree Programs

The civil engineering graduate program is designed for both full-time and part-time students who want to advance their academic and professional skills in civil engineering and related areas. Many students are full time, while many also work full-time jobs and complete evening classes. Depending on a student's pace, the master's program takes 2-4 years to complete (on average). All graduate courses are offered in the afternoons, evenings or on Saturdays. Some courses, including all GIS classes, are offered online.

Specialty Areas:

Master of Science (MS)

- Environmental and Sustainability Engineering
- Geographic Information Systems (GIS)
- Geotechnical Engineering
- Hydrologic and Hydraulic Engineering
- Structural Engineering
- Transportation Engineering

Master of Engineering (MEng)

- Construction Engineering and Management
- Geomatics Engineering and Geographic Information Systems (GIS)
- Sustainable Infrastructure
- Transportation Systems

Degree Requirements

Two MS degree programs are available.

Plan I - Master's Thesis: This plan requires 24 semester hours of graduate-level course work and 6 semester hours of master's thesis credit.

Plan II - Master's Report: This plan requires 27 semester hours of graduate-level course work and 3 semester hours master's report credits.

Master of engineering students must follow Plan 2 above. Additionally, of those 30 semester hours, at least 15 hours must be completed with CE classes, including the master's report. The remaining hours may be completed in related disciplines that supplement the chosen area of study. Both the MS and MEng degrees require satisfactory completion of a written comprehensive exam and an oral defense of the master's thesis or master's report to a committee of at least three graduate faculty. Every graduate student must also satisfy the degree requirements of the Graduate School on the Denver campus, specified in the Information for Graduate Students chapter of this catalog. Both the MS and the MEng degree programs must be completed within seven years of the date the student begins the degree program.

Courses for both the MS and MEng degree programs are selected by mutual agreement of the student and his/her faculty advisor after admission to the degree program. The advisor may also specify undergraduate courses that must be completed before starting graduate course work, but these will not count toward the semester hour requirements for the degree. The student's thesis or report topic must also be approved by the faculty advisor.

Requirements for Admission

GPA and GRE

Students with GPA's between 3.0 and 2.75 may be admitted provisionally, but are encouraged to submit official GRE scores to support their applications. Non-international applicants not wishing to take the GRE may gain admittance by registering as a nondegree student and completing three classes with a GPA of 3.25.

Transfer Credit:

Master's students may transfer up to 9 semester hours from another institution toward their master's degree, if approved by their advisor.

Program Prerequisites:

Prerequisite classes are in addition to the 30 semester hours needed to complete a master's degree, as they are necessary background information that is usually included in an engineering bachelor's program. Students must receive a grade of C-minus or better for the prerequisite class to apply to the program.

Students may complete prerequisite classes either before or after being admitted to a degree program. However, applicants with too many prerequisites may not gain admission. For applicants completing prerequisites after admission, all prerequisite courses must be completed before 12 of the 30 master's semester hours are complete.

If prerequisites are taken while admitted to the master's program, students must maintain a 3.0 overall GPA, per Graduate School rules.

Requests for applications for graduate study in civil engineering should be addressed to

CU Denver Department of Civil Engineering
Campus Box 113
P.O. Box 173364
Denver, CO 80217-3364

Applicants who are not citizens or permanent residents of the United States must apply through the Office of International Admissions, Campus Box 185, P.O. Box 173364, Denver, CO 80217-3364. All applicants for admission must submit complete credentials as outlined in the instructions that accompany the application materials. Learn more in the Information for International Students section of the catalog.

COMMUNICATION MA

- ▶ Graduate School Rules apply to this program

The master of arts in communication is a generalist degree designed to enhance students' intellectual and professional growth through the understanding and practice of effective communication. The degree is structured both to build a solid foundation and to allow students to blend research, theory and practice to meet the challenges of the twenty-first century.

Degree Requirements

The MA degree in communication requires the completion of 33 hours of graduate course work (5000 level or above). As explained below, students have the option of taking 6 hours of 4000-level courses outside of Communication. In this situation, a student will take 27 hours of graduate credit and 6 hours of 4000-level (undergraduate) course work. The requirements for course work are as follows:

Required Course

- COMM 6013 - Introduction to Graduate Work in Communication
(recommended to be taken the first semester of graduate course work; offered only in the fall semester)

Total: 3 Hours

Methods Courses

Most methods courses are offered every other year. Students also wish to pursue a PhD may elect to take additional methods classes in or outside the department.

Choose one:

- COMM 5011 - Research Methods: Quantitative
- COMM 5022 - Critical Analysis of Communication
- COMM 5205 - Empirical Research Methods for Communication
- COMM 5221 - Research Methods: Qualitative
- COMM 5710 - Topics in Communication
The topics courses that may be used toward the methods requirement are Media Criticism and Film Criticism

Total: 3 Hours

Graduate Seminars

In addition to the above core requirements, students must take five graduate seminars from the Department of Communication. Graduate seminars are 5000- or 6000-level courses.

- COMM 5240 - Organizational Communication
- COMM 5600 - Media Theory
- COMM 5710 - Topics in Communication
Topics include but are not limited to: Critical Theory; Communication, Globalization, and Social Justice, Organizational Discourse; and Communication and Security

Total: 15 Hours

Electives

Students must complete four electives. A minimum of two of these electives must be at the 5000 or 6000 level; the remaining two may be at the 4000 level. At least two of the four electives must be communication courses; the remaining two electives may be taken from outside of the Department of Communication.

- COMM 5040 - Communication, Prisons, and Social Justice
- COMM 5250 - Difference Matters and Organizational Communication
- COMM 5255 - Negotiations and Bargaining
- COMM 5265 - Gender and Communication
- COMM 5270 - Intercultural Communication
- COMM 5282 - Environmental Communication
- COMM 5710 - Topics in Communication
Special topics include but are not limited to: Communication, Democracy, and Civil Engagement; New Media, and Organizational Discourse
- COMM 5500 - Health Communication
- COMM 5550 - Rhetorics of Medicine & Health
- COMM 5620 - Health Risk Communication
- COMM 5621 - Visual Communication
- COMM 5635 - Principles of Public Relations
- COMM 5640 - Advanced Public Relations
- COMM 5665 - Principles of Advertising
- COMM 5840 - Independent Study
- COMM 5939 - Internship
- COMM 5995 - Travel Study
- COMM 6950 - Master's Thesis
You need 3-6 credits if you elect the thesis option.

Total: 12 Hours

Thesis

Students wishing to complete a thesis must register for between 3-6 semester hours of thesis work, and will need 33 credits to graduate. Credit for a thesis may substitute for one or two elective course requirements.

Total: 3-6 Hours

Students must receive a grade of *B* or higher in all courses that are applied to the MA degree.

All students must pass a comprehensive examination at the end of course work.

Degree Total: 33 Hours

COMPUTER SCIENCE MS

► Graduate School Rules apply to this program

General MS Degree Requirements

In addition to the basic requirements of the university, the Department of Computer Science and Engineering requires master's degree candidates to complete a program of study consisting of at least 30 semester hours of graduate level computer science courses while maintaining a grade point average of at least 3.0. According to the Graduate School Rules, graduate courses with grades below B- cannot be applied toward the completion of the graduate degree. With prior approval by the Graduate Committee a student may substitute up to nine semester hours with graduate mathematics or other engineering courses.

Student need to submit an approved Plan of Study to the department during the first semester of their admission. An academic advisor will consult with students to develop a Plan of Study. Students may choose **Plan I** (Thesis), **Plan II** (MS Project), or **Plan III** (Course Only). Both Plan I and II require successful defense of thesis or project in student's graduating semester.

- **Plan I-Thesis:** Students take 24 hours of graduate course work, and additionally write and defend a thesis, which counts for 6 hours of graduate thesis work.
- **Plan II-MS Project:** Students take 27 hours of graduate course work, and additionally write and defend a MS project report, which counts for 3 hours of graduate MS project work.
- **Plan III-Course Only:** Students take 30 hours of graduate course work consisting of a minimum of four out of five Category A courses, and four category B courses. In the final semester, graduating students must submit a final written research report on a subject specified by the CSE Faculty Committee.

Students are allowed a maximum of 3 credit hours of CS Independent Study (except in Plan II, course-only option).

Students may only take graduate engineering or graduate mathematics courses that are offered toward an MS degree in a degree-granting department, while at least 21 hours must be CS. It is advisable that students get prior approval of a graduate CS advisor before taking any course that does not have a CSCI prefix. For example, courses offered through Continuing Education are not counted toward an MS degree in Computer Science.

The only exception for a student to take a graduate course from any other department is when the course satisfies all of the following conditions:

1. It appears in a graduate program.
2. It is taken instead of 3 hours of CS Independent Study.
3. It is approved by the CS Graduate Committee.

No more than 6 credit hours may be in the form of on-line courses.

[Adequate Progress toward MS in Computer Science Degree](#)

Students are expected to finish the MS degree program within five years. Candidates for the MS degree may not get credit for a course taken longer than five years before the date on which the degree is to be granted.

Students who do not enroll for any course work relevant to computer science in a given semester (summer semesters excluded) must supply the Department of Computer Science and Engineering with a written statement describing the reason for the inactivity. Students who are inactive for three consecutive semesters (summer semesters excluded) will be removed from the program, and must re-apply for admission.

Students may choose either Plan I (thesis) or Plan II (MS project) or Plan III (course only option).

For up-to-date information, please refer to the current graduate handbook from the CSE department website at engineering.ucdenver.edu/cse, under Degree Programs.

COUNSELING MA

- Degree
- Admission Requirements
- Matriculation Requirements

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: www.ucdenver.edu/counseling

[Faculty](#)

Information about faculty in the Counseling program is available online at www.ucdenver.edu/education.

Degree

The Master of Arts degree in Counseling program prepares professionals for community/mental health agencies, private practice and public schools. Students should obtain faculty advising regarding professional requirements.

All programs consist of 63 semester hours (66 for the multicultural/diversity strand). Core requirements that are common to all areas of study are followed by courses specific to each program. All programs require a practicum (150 clock hours) and an internship (600 clock hours). For most students, the master's degree is a three-year program with course work for two years followed by a year of practicum and internship. All beginning students enroll in CPCE 5010 and CPCE 5810 .

The clinical mental health counseling, school counseling and couple and family therapy programs are nationally accredited by CACREP, the Council for the Accreditation of Counseling and Related Educational Programs.

All students are expected to have online computer capability for communication and instructional purposes. For students in off-campus programs, some courses may be offered via computer technology.

Admission Requirements

Successful applicants to the Counseling program will have obtained a minimum 2.75 undergraduate GPA and will score at least 290 (combined) on the verbal and quantitative sections of the Graduate Record Exam (GRE) or at least 396 on the Miller Analogy Test (MAT). Also, applicants will submit a current resume, a letter of intent, three letters of recommendation (at least 2 academic letters are strongly advised) and additional required materials. Applicants meeting these minimum standards will be invited to a half-day group interview that involves program orientation, small group interviews, a writing assignment and a group exercise.

A prerequisite course in basic statistics (undergraduate level) is required prior to enrollment in the program.

Application materials are available at

https://soa.prod.cu.edu/degreeprog/applyDEGREEPROG_CUDEN/login.action. All materials must be submitted online by the appropriate deadline: September 15 for spring semester; January 15 for summer and fall semesters.

Matriculation Requirements

Counseling students must earn at least a B in skills-oriented courses (CPCE 5100, 5160, 6140, 7100, 5910, 5930) or must repeat these courses until they do so. In addition, all students must make a formal case presentation in CPCE 5930 (internship) to demonstrate their clinical knowledge. Students must also take a national comprehensive examination (after 30 semester hours). Students may choose to conduct research and submit a thesis (research conducted under faculty advisement) instead of taking the national comprehensive examination.

Program Areas

Students accepted into the Counseling program follow one of the three concentration areas. The clinical mental health counseling program follows state licensure requirements for licensed professional

counselor; the couple and family therapy program follows licensure requirements designated by the state of Colorado of licensure as a marriage and family therapist; and the school program follows both the licensed professional counselor licensure and state department of education certificate as a school counselor requirements.

Program Areas

Counseling Core

(required in all program areas)

- CPCE 5010 - Counseling Theories
 - CPCE 5100 - Techniques of Counseling
 - CPCE 5110 - Group Counseling
 - CPCE 5150 - Family Therapy Theory
 - CPCE 5330 - Counseling Issues and Ethics
 - CPCE 5400 - Career Development
 - CPCE 5810 - Multicultural Counseling Issues for Individuals and Families
 - EPSY 6200 - Human Development Over the Life Span
 - RSEM 5110 - Introduction to Measurement
 - RSEM 5120 - Introduction to Research Methods
- National Comprehensive Exam to be taken after the CPCE core classes are completed.

Total: 30 Hours

Additional Requirements for Program Area One: Clinical Mental Health Counseling (MA)

- CPCE 5160 - Techniques in Family Therapy
 - CPCE 5280 - Addictions Counseling
 - CPCE 5820 - Strategies of Agency Counseling
 - CPCE 6250 - Mental Health Diagnosis
 - CPCE 7100 - Advanced Theories and Techniques in Psychotherapy
- Two Additional Electives (6 semester hours)

Total: 21 Hours

Additional Requirements for Multicultural/Diversity Strand in Clinical Mental Health Counseling

- CPCE 5160 - Techniques in Family Therapy
- CPCE 5280 - Addictions Counseling
- CPCE 5820 - Strategies of Agency Counseling
- CPCE 5830 - Special Topics Gender & Sexual Orientation
- CPCE 6100 - Spiritual Dimensions of Counseling
- CPCE 6250 - Mental Health Diagnosis
- CPCE 6810 - Advanced Multicultural Counseling

- CPCE 7100 - Advanced Theories and Techniques in Psychotherapy

Total: 24 Hours

Additional Requirements for Program Area Two: Public School Counseling Certificate (MA)*

- CPCE 5280 - Addictions Counseling
 - CPCE 5425 - Developing & Implementing a School Counseling Program: ASCA
 - CPCE 5815 - Introduction to School Counseling
 - CPCE 5915 - Practicum in School Counseling
 - CPCE 6140 - Counseling Children, Adolescents and Their Parents
 - CPCE 6230 - Developmental Counseling in Schools: Prevention & Intervention
 - CPCE 6250 - Mental Health Diagnosis
- Place Test is required for the Colorado Department of Education Certification for school counselors.

Total: 21 Hours

* 100 hour practicum is required in the schools (CPCE 5915). Three hundred of the 600 hours of internship must be in a concentrated environment. Full time experience consisting of at least a four-hour block of time each day is required. Students may not do their internship in their primary employment (agency or school setting). For school counseling, three hundred (300) hours of internship are needed at the middle and secondary level for a K–12 program. CPCE 5150, 6140 and 7100 are necessary for students to work with school-related family issues, individual counseling and children’s counseling in practicum and internship.

Additional Requirements for Program Area Three: Couple and Family Therapy (MA)

- CPCE 5160 - Techniques in Family Therapy
- CPCE 5170 - Issues In Family Studies
- CPCE 5180 - Counseling Couples
- CPCE 6000 - Introduction to Sex Therapy
- CPCE 6140 - Counseling Children, Adolescents and Their Parents
- CPCE 6160 - Advanced Assessment: Theory and Treatment in Family Systems
- CPCE 6250 - Mental Health Diagnosis

Total: 21 Hours

*CPCE 5160 is necessary prior to internship in couple and family therapy; this course requires 10 hours of laboratory experiences working with youth.

Counseling Clinical Experiences

- CPCE 5910 - Practicum in CPCE
- CPCE 5930 - Internship in Counseling

Total: 12 Hours

CRIMINAL JUSTICE MCJ

- ▶ Graduate School Rules apply to this program

Program Director: Callie Rennison, PhD

Faculty

Professors:

Mary Dodge, PhD, University of California Irvine

Angela Gover, PhD, University of Maryland

Mark Pogrebin, PhD, University of Iowa

Eric Poole, PhD, Washington State University

Paul Stretesky, PhD, Florida State University

Associate Professors:

Callie Rennison, PhD, University of Houston

Assistant Professor:

Lonnie Schaible, PhD, Washington State University

Senior Instructor:

Lucy Dwight, PhD, Pennsylvania State University

The master of criminal justice (MCJ) program is designed for students interested in comprehensive professional graduate education in the field of criminal justice. It is intended to develop in the student an in-depth understanding of the fields within criminal justice and criminology and of background material from supporting disciplines, which enables the student to adapt to many operational specializations.

As an academic and professional field of study, this program is dedicated to preparing men and women not only to administer the system as it presently exists—but also to evaluate, to analyze and to change—to become pioneers in accelerating the shaping of a rational and responsive criminal justice system.

To deal with this system effectively, research design capability must be developed along with the skills required for the ordering and analysis of empirical data. This course of study prepares the student to be an innovator in crime control and prevention through course work dealing with strategies and skills for promoting individual, organizational and social change.

MPA AND MCJ—General Information

Admission Requirements

1. Applicants must have a baccalaureate degree from a college or university of accredited standing, with a minimum GPA of 3.0. Two sets of official transcripts are required from all higher education institutions attended.
2. Applicants must provide three recommendations from qualified references. Recommendations may be from professors, employers and/or others acquainted with the prospective student's professional and/or academic work.
3. Applicants are required to take the GRE, the GMAT or the LSAT unless they meet the requirements for waiver. Standard graduate admission test scores are normally waived when the candidate already has a graduate degree in another field from an accredited institution. Other applicants may have test scores waived if they have an undergraduate GPA of 3.0 or better *and* they have *significant* post-baccalaureate professional employment in management or policymaking positions for a minimum of 10 years or the equivalent.
4. A current resume highlighting professional accomplishments and community involvement, a short essay stating educational and career goals, a declaration of program form, and an application fee are also required.
5. International applicants may have different admission requirements and should check with the Office of International Affairs. In particular, international students whose first language is not English are required to take the TOEFL or IELTS. A composite score of 6.5 on the IELTS, or a composite score of 80 on the TOEFL, with accompanying minimum IELTS or TOEFL subscore results, is required.

All application material and test scores should be sent to SPA, University of Colorado Denver, Campus Box 142, P.O. Box 173364, Denver, CO 80217-3364.

SPA will review applications as soon as they are complete. Master-level applicants generally receive notification of their admission status three weeks after all materials have been received in the office. The preferred deadlines listed below allow students to receive best consideration for scholarships, financial aid and course selection. *Students who do not meet the preferred deadline may still submit application materials until approximately one month before the start of classes and will be considered on a space-available basis.*

<i>Semester</i>	<i>Preferred Application Deadline</i>	<i>Final Deadline*</i>
Fall	March 15	August 1
Spring	October 15	December 1
Summer	March 15	May 1

*Final deadline does not apply to international students who should contact the Office of International Affairs for deadline information.

Provisional Admission

In exceptional cases, a student who does not otherwise meet the minimum requirements for admission may be admitted on provisional status if elements of their application suggest they may be able to succeed in the program. Students admitted on a provisional basis take two core courses in their first semester, and must earn at least a B in each course. MPA students may select two of the following:

- PUAD 5001
- 5003 or
- 5004

MCJ students may select two of the following:

- CRJU 5001
- 5002 or
- 5005

Based on their performance in these courses, a formal decision will be made concerning their admission into the program. Provisionally-admitted students may not take any other courses at SPA until they have been formally admitted to the program.

Nondegree Admissions

Students may register as nondegree students while developing their application packet. However, students are discouraged from taking multiple courses as a nondegree student if they hope to pursue a degree. No more than nine semester hours taken in the program as a nondegree student may be applied to the master's degree programs, with approval of an advisor. Nondegree student application forms are available in the Office of Admissions or online.

Transfer of Credit to SPA

Up to 9 semester hours of appropriate graduate work from an accredited college or university may transfer, if such credit was not applied to a completed degree.

Limitation of Course Load

The normal course load for a full-time student is 9 semester hours. A student who is employed full time may not carry more than 9 hours unless an excess load has been approved in advance by the faculty advisor.

Financial Assistance

Students in the master's degree programs are eligible for several types of financial assistance. Educational loans require application to the CU Denver Office of Financial Aid and completion of the FAFSA. A number of students secure internships or other part-time positions with local, state and federal agencies in the Denver metropolitan area. Scholarship assistance is available on a limited basis.

The school receives announcements for fellowships from various government organizations and actively seeks additional funding for student support in the form of internship positions and research assistantships.

Persons interested in applying for financial assistance should inquire in the SPA office. The deadline for current students is March 15 for the fall term. Prospective students seeking scholarship funds should

have complete scholarship applications on file at the SPA office by the preferred application deadline for the semester they are requesting funds.

The Internship Program

An internship for the MPA and MCJ programs is required for students who have not had significant public, nonprofit or private-sector experience. The purpose of the internship is to continue the linkage between theory and practice that is the philosophical basis of SPA. The internships generally involve part-time work. A maximum of three semester hours will be awarded for internship service. Great care is taken by the SPA to ensure that the internship experience meets the intellectual needs of the student. Placements have included the Governor's Office, Colorado General Assembly, Denver Mayor's Office, City of Denver, Denver Police Department, Boulder Crime Lab, Western Governor's Association, the National Conference of State Legislatures, the Colorado Department of Public Health and Environment and the Denver Center for the Performing Arts.

Time Limit for Master's Degree

Master's degree students must complete all course work and degree requirements within six years of registration in their first course.

Degree Requirements

1. Graduate Study

The program leading to the MCJ degree requires a minimum of 36 semester hours of appropriate graduate study with an average of B (3.0) or better. No grade below C will be accepted for graduate credit. No more than 6 semester hours of independent study can be applied toward the degree.

2. Core Courses

The completion of the following core courses is required with a grade of B- or better:

- CRJU 5001 - CJ Systems, Policies/Practice
- CRJU 5002 - Criminological Theory
- CRJU 5003 - Research Methods
- CRJU 5004 - Statistics
- CRJU 5005 - Law & Society

Total: 15 Hours

3. Course Work

Students must complete a minimum of 27 semester hours of course work in criminal justice.

4. Criminal Justice Experience

Students who have not had criminal justice experience are required to complete CRJU 6910 (field study). A minimum of 240 hours of supervised work is required to earn 3 hours of credit. Students must have completed 18 credit hours with a GPA of 3.0 prior to enrolling in the internship course.

5. Capstone

All MCJ students, except those pursuing the thesis option, must complete the capstone course (CRJU 5361) during the last semester of their degree program. All core classes must be completed before taking the capstone. Students admitted before spring 2009 may opt to take a written comprehensive exam in lieu of CRJU 5361.

- CRJU 5361 - Capstone Seminar

Students must receive the approval of both a faculty advisor and the director of the criminal justice program to complete a thesis for 3–6 semester hours in lieu of the advanced seminar.

Elective Courses

The courses listed below may be taken as electives for the MCJ degree:

- CRJU 5200 - Wrongful Convictions
- CRJU 5210 - Prisoner Reentry
- CRJU 5220 - The American Jury System
- CRJU 5250 - Criminal Offenders
- CRJU 5260 - Crime and Literature
- CRJU 5270 - Case Studies in Crim Justice
- CRJU 5280 - Computer Crime
- CRJU 5301 - Crime and Media
- CRJU 5320 - Police Administration
- CRJU 5325 - Qualitative Methods for Criminal Justice
- CRJU 5330 - Gangs and Criminal Organizations
- CRJU 5391 - Sex Offenders and Offenses
- CRJU 5410 - Victimology
- CRJU 5420 - Violence in Society
- CRJU 5430 - Drugs, Alcohol and Crime
- CRJU 5510 - Contemporary Issues in Law Enforcement
- CRJU 5520 - Corrections
- CRJU 5530 - Community Corrections
- CRJU 5540 - Juvenile Justice Administration
- CRJU 5550 - Criminal Justice Policy and Planning
- CRJU 5551 - Courts, Law & Justice
- CRJU 5552 - Criminal Justice Ethics
- CRJU 5553 - Women and Crime
- CRJU 5555 - Profiling Criminal Behavior
- CRJU 5571 - The Social Organization of Crime
- CRJU 5572 - Race, Crime and Justice
- CRJU 5574 - White Collar Crime
- CRJU 5575 - The Mentally Disordered Offender

- CRJU 5576 - Social Science in the Criminal Justice System
- CRJU 6600 - Special Topics in Criminal Justice

MCJ Options

Gender-Based Violence Concentration/Graduate Certificate

A student may choose to complete a concentration in gender-based violence studies as part of the MCJ or MPA degree, or the gender-based violence program can be completed by non-degree students as a stand-alone graduate certificate. The program on gender-based violence provides an interdisciplinary perspective on crime, the formulation of laws and codes, the criminal legal system and its intersection with gender and violence. Students seeking a gender-based violence concentration must complete 15 semester hours related to gender-based violence, which are completed via intensive workshops that meet periodically throughout a two-year period.

Requirements

Students take the four specified courses below and one elective.

- PUAD 5910 - Nature and Scope of Interpersonal Violence
- PUAD 5920 - The Psychology of Interpersonal Violence
- PUAD 5930 - Interpersonal Violence Law and Public Policy
- PUAD 5940 - Interpersonal Violence Advocacy and Social Change
-

Total: 15 Hours

EMERGENCY MANAGEMENT AND HOMELAND SECURITY CONCENTRATION/GRADUATE CERTIFICATE

The graduate concentration in Emergency Management and Homeland Security is available as a concentration within the MPA and MCJ programs, or as a stand-alone certificate for non-degree students. This concentration, which requires 15 credit hours (5 courses), provides advanced education in the management of emergencies, hazards, disasters, and homeland security. Students completing this sequence will have the knowledge and skills necessary to assess and manage a broad range of hazards and disasters, and to understand the policy environment in which emergency management occurs.

Requirements

Students take two of the following three required courses as well as three elective courses approved by their advisor. The three elective courses may be drawn from the student's particular area of interest, such as policy and management, spatial analysis and quantitative assessment, or public safety.

- GEOG 5230 - Hazard Mitigation and Vulnerability Assessment
- PUAD 5650 - Disaster and Emergency Management Policies

- PUAD 5450 - Law of All-Hazards Management

Online Option

The master of criminal justice degree may be earned in the online format. Designed to serve students who are looking for a high-quality education, but who need an alternative to traditional classroom instruction, students may elect to do one or all of their courses online. This option allows students to complete the entire degree at a distance or to choose to come to campus for some courses while using an interactive online format for others.

CULTURALLY AND LINGUISTICALLY DIVERSE EDUCATION, MA CURRICULUM AND INSTRUCTION

Culturally and Linguistically Diverse Education

Requirements for CLDE Program

(Degree/Endorsement or Certificates - TESOL, CRUE, TCLD)

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Faculty

Information about faculty in this program is available at our website

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/OurFaculty.aspx>. The faculty of linguistically diverse education (CLDE) believe that effective teaching requires an awareness of and the ability to respond to individual differences. CLDE faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Program Options

The CLDE program offers options leading to the following:

- a Master of Arts in Curriculum and Instruction
- the Colorado Endorsement for Culturally and Linguistically Diverse Education
- a Teaching English to Speakers of Other Languages (TESOL) certificate
- a Culturally Responsive Urban Education (CRUE) certificate

- a Teaching for Cultural and Linguistic Diversity (TCLD) certificate

The program is intended for:

- novice teachers who have completed their Colorado teaching credentials in CU Denver's graduate teacher education licensure program and are enrolled in the MA in curriculum and instruction with an emphasis in CLDE (see 27 semester-hour option)
- veteran elementary and secondary teachers returning to graduate studies for the master's degree (36 semester hours)
- veteran elementary and secondary teachers returning to acquire Colorado endorsement credentials (24 semester hours)
- individuals interested in teaching English abroad (TESOL: 15 semester hours)
- elementary and secondary teachers who desire preparation in better meeting the needs of culturally diverse learners (CRUE: 9 semester hours)
- veteran elementary and secondary teachers returning to graduate studies for a certificate to aid them in helping their English language learners succeed (TCLD: 9 semester hours)
- individuals interested in teaching adults (MA: 36 semester hours)

The MA is a field-based professional development program involving university faculty and practicing CLDE instructors in public school and intensive English settings. Courses, laboratories and practica emphasize scholarly approaches to complex problems of practice and feature interactive, collaborative and practical approaches to working with English language learners.

We advocate a sociocultural approach to issues of language and learning, acknowledging the legitimacy of linguistic and cultural differences and recognizing that academic settings represent important socializing forces in students' lives. Because of this, we emphasize the "whole learner" in our teaching and in teacher education and teacher development, understanding that individuals do not merely add a language to their repertoire of communication but make fundamental identity adjustments as they progress in their studies. For this reason, all our course work, laboratories and practica experiences are field-based, putting our program participants in contact with veteran teachers and English language learners. We draw heavily on recent scholarship in collaborative approaches to school-university partnerships and systemic school change in developing classroom methods and materials, curricula and teacher development experiences.

The MA program also provides a foundation in teaching English in a variety of contexts in the United States and abroad. Teachers who work in CLDE programs or in other content areas (such as art, language arts, math, music, science, social studies or technology), but who wish to integrate CLDE principles and strategies into their instruction for their English language learners, will find the MA program relevant to their interests and goals.

Course work includes language teaching methodology, language acquisition, linguistic analysis of English, multicultural foundations, assessment, literacy and other areas. This program has been developed as an advanced course of study for practicing teachers or individuals with some teaching experience.

Applicants who are new to teaching, and who wish to teach in U.S. K–12 public school settings, should inquire about the teacher education licensure program. Applicants who are new to teaching, but who do

not need a teaching license (certification) because they do not wish to teach in U.S. public schools, may consider the TESOL certificate to gain initial teaching experiences before applying for the MA.

Program Requirements and Courses

To complete the CLDE program and earn a master's degree and/or endorsement, or to earn a TESOL certificate, students must complete the appropriate course work as outlined in the table below.

Requirements for CLDE Program (Degree/Endorsement or TESOL Certificate)					
Course	MA for Teaching Adults (without CDE Endorsement in CLDE)	MA and CDE Endorsement in CLDE	CDE Endorsement in CLDE Only	MA and CDE Endorsement in CLDE (when added to CU Denver's graduate teacher education licensure program)	TESOL Certificate
CLDE 5010 - Foundations of Language, Literacy and Culture	Required	Required	Required	Required	
CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn	Required	Required	Required	Required	
<i>One course from culture options:</i> CLDE 5140 - Multicultural Education or CLDE 5150 - Culture of the Classroom	Select One	Select One	Not Required	Not Required	
CLDE 5070 - Linguistic Analysis of English: Implications for Teaching	Required	Required	Required	Required	Required
CLDE 5030 - Language & Literacy Acquisition Div Lrn	Required	Required	Required	Required	Required

CLDE 5820 - Techniques in Teaching English as a Second Language	Required	Required	Required	Required	Required
CLDE 5050 - Assessment & Advocacy for Diverse Learners	Required	Required	Required	Required	Required
<p><i>One course from field-based teaching options:</i></p> <p>CLDE 5825 - Methods and Materials of Language Teaching or CLDE 5826 - Language Teaching Lab or LCRT 5770 - Effective Literacy Instruction for Second Language Learners (DPS or APS teachers only)</p> <p>Other courses such as LCRT 5730, LCRT 5020, or SPED 5740 may be used with Faculty Advisor approval only</p>	5826 preferred	<p>Elem: 5825 preferred Sec: 5826 preferred</p>	<p>Elem: 5825 preferred Sec: 5826 preferred</p>	<p>Elem: 5825 preferred Sec: 5826 preferred</p>	5826
CLDE 5035 - Language and Literacy: Acquisition, Processes, and Cognition, Part II	Required	Required	Not Required	Not Required	
CLDE 6912 - Seminar and Practicum in Literacy and Language, ESL and Bilingual Education	Required	Required	Required	Required	
<p><i>One course from research and evaluation methodology:</i></p> <p>RSEM 5050 - Classroom Assessment or RSEM 5080 - Research In Schools or Any other graduate-level RSEM course with advisor approval</p>	Select One	Select One	Not Required	Select One	

<i>One course from educational psychology:</i> EPSY 5110 - Human Learning or EPSY 5220 - Adult Learning and Education or Any other graduate-level EPSY course with advisor approval	Select One	Select One	Not Required	Not Required	
Cumulative Experience: Final Reflection	Required	Required	Required	Required	
LDE PLACE Exam (not required for students beginning Spring 2013 or later)		Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	
Total Semester Hours	36	36	24	27	15

Culturally Responsive Urban Education (CRUE) Certificate Requirements

Those considering the CRUE certificate must complete the following:

CLDE 5170 - Race, Class and Culture in Public Schools Semester Hours: 3

CLDE 5180 - Working with Communities and Families Semester Hours: 3

CLDE 5190 - Culturally Responsive Pedagogy and Practices Semester Hours: 3

Total: 9 Hours

This certificate is only offered as a cohort, through our district partnerships. Additional information about the CRUE certificate can be found at

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/CulturallyResponsiveUrbanEducation.aspx>

Teaching for Cultural and Linguistic Diversity (TCLD) Certificate

The TCLD Certificate (formerly known as Content Instruction for English Learners (CIEL) is a graduate certificate providing a foundation in teaching content to students whose first language is other than English. The program is designed for content-area teachers (math, science, social studies, etc.) who have English language learners in their classes. This certificate is also valuable to content area coaches or administrators who provide support for teachers with English language learners. The certificate is appropriate for public school and community college personnel.

The certificate totals nine credit hours with the specialty area in culturally and linguistically diverse education (CLDE). All courses are three graduate credit hours and may be applied directly toward a full

master's degree in Curriculum and Instruction with an emphasis in LDE while also fulfilling the requirements toward a Colorado Culturally and Linguistically Diverse Education Endorsement. Courses may also be applied toward the Teaching English to Speakers of Other Languages (TESOL) Certificate. Additional courses and applications are required for these programs. Please see our website for additional information on this certificate: <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/TeachingforCulturalandLinguisticDiversityCertificate.aspx>.

The certificate may be completed in one year. Those pursuing the TCLD certificate must complete the following:

CLDE 5030 - Language & Literacy Acquisition Div Lrn

CLDE 5820 - Techniques in Teaching English as a Second Language

LCRT 5770 - Effective Literacy Instruction for Second Language Learners

The TCLD certificate is being offered only through our district partnerships.

Culminating Experience: Final Reflection

The culminating experience project is required for the CLDE endorsement, counts as the comprehensive exam for the master's degree and permits you to document your development over the course of your program. Culminating Experience Projects are reviewed by CLDE faculty members. The process is reviewed in every class as each of the PBAs is completed in the classes, helping students to update their culminating experience projects throughout the program. For more culminating experience project guidelines, visit the website at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LinguisticallyDiverseEducationResources.aspx>.

PLACE Exam for Linguistically Diverse Education Endorsement

To add the endorsement to their teaching license, students beginning the program prior to Spring 2013 must pass the PLACE (Program for Licensing Assessments for Colorado Educators) exam for linguistically diverse education, secure and submit the appropriate paperwork from the Colorado Department of Education, and pay fees required for the PLACE and for the endorsement paperwork. Information about PLACE is online at www.place.nesinc.com. Students beginning Spring 2013 or later will be eligible for the Culturally and Linguistically Diverse Education Endorsement and will not be required to pass the PLACE exam to receive the CLDE endorsement.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the summer semester, three-to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester and up to two courses each summer. Students may simultaneously complete requirements for the MA and the endorsement for culturally and linguistically diverse education (some courses are offered only once per year.)

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

CURRICULUM AND INSTRUCTION MA - STEM

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Web site: www.ucdenver.edu/education

Faculty

Information about faculty is available online at www.ucdenver.edu/education

Areas of Study

- **Master of Arts in Curriculum and Instruction**
- **Concentrations for Elementary Teachers: Science, Mathematics, or Mathematics/Science**
- **Concentrations for Secondary Teachers: Science, Mathematics, and Social Studies**

Curriculum and instruction (C&I) studies lead to an advanced master's degree in curriculum and instruction. All programs require 36 semester hours, including the C&I core or its equivalent. The core courses provide a sound basis in curriculum theory, teacher inquiry, appreciation of diversity and philosophical foundations. The various specializations allow teachers to focus in an area of interest.

Elementary teachers can select from concentrations in mathematics, science, or mathematics/science. Secondary teachers may choose concentrations in mathematics or science.

Education Core

- FNDS 5050 - Critical Issues in American Education
- RSEM 5080 - Research In Schools

Total: 6 Hours

Elementary Mathematics and Science

Mathematics Education core (choose two):

- MTED 5030 - Theories Of Mathematics Learning
- MTED 5040 - Mathematics Teaching - Theory and Practice
- MTED 5050 - Critique Of Mathematics Education Research
- MTED 5060 - Developmental Pathways In Students' Mathematical Thinking

Science Education core:

- SECE 5340 - Multicultural Science Education
- SECE 5500 - The Nature of Science

Elective Courses: Choose six courses in consultation with faculty advisor

Total: 36 Hours

Science (Elementary or Secondary)

- SECE 5340 - Multicultural Science Education
- SECE 5350 - Issues and Problems in Science Education
- SECE 5500 - The Nature of Science
- SECE 6110 - Science and Math Curriculum Studies

Elective Courses: Choose six courses in consultation with faculty advisor.

Total: 36 Hours

Mathematics (Elementary)

Mathematics Education core:

- ELED 5400 - Contemporary Mathematics for Elementary Schools
- MTED 5030 - Theories Of Mathematics Learning
- MTED 5040 - Mathematics Teaching - Theory and Practice
- MTED 5050 - Critique Of Mathematics Education Research
- MTED 5060 - Developmental Pathways In Students' Mathematical Thinking

Elective Courses: Choose five courses in consultation with faculty advisor.

Total: 36 Hours

Mathematics (Secondary)

Mathematics Education core:

- MTED 5030 - Theories Of Mathematics Learning
- MTED 5040 - Mathematics Teaching - Theory and Practice
- MTED 5050 - Critique Of Mathematics Education Research
- MTED 5060 - Developmental Pathways In Students' Mathematical Thinking
- UEDU 5300 - Curriculum and Methods in Secondary Math
- UEDU 5301 - Assessment In Math Education

Elective Courses: Choose four courses in consultation with faculty advisor.

Total: 36 Hours

Comprehensive Experience (COMPS)

C&I programs require each student to complete a master's comprehensive experience, known as COMPS, that consists of a project or research thesis completed in consultation with their faculty advisor. Details may be obtained from your faculty advisor.

EARLY CHILDHOOD EDUCATION MA

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@cudenver.edu

Website: www.ucdenver.edu/education

Faculty:

More information about faculty in this division is available online at www.ucdenver.edu/education

[About the early childhood education program](#)

The early childhood education (ECE) program leads to a master's degree in early childhood education and/or Colorado teacher license in early childhood special education (ECSE) specialist. The program prepares leaders who will enrich the life experience of young children (birth to 8 years) and their families through a variety of professional roles.

The ECE program is interdisciplinary in focus, drawing on university resources and the clinical expertise of various community professionals. There is a strong emphasis on fieldwork and practicum experiences in both regular and special education concentrations. Field experiences are a part of each course and provide an opportunity for each student to gain knowledge, abilities and dispositions while interacting with children, families, program staff and community agencies. Practicum experiences are designed to allow students to apply knowledge and practice skills in a closely supervised environment.

Curriculum and Program Requirements

Semester Hour Requirements

Master's degree in ECE: 39 semester hours

ECSE specialist license: 39 semester hours

Master's degree plus ECSE specialist license: 48 semester hours

Master's degree plus ECSE specialist added endorsement: 39 semester hours

ECSE specialist added endorsement: 24 semester hours

Early childhood education and the early childhood special education focus share course content in:

- language development and disorders
- child growth and development, differences and disorders
- learning approaches with young children
- measurement and evaluation
- basic statistics/research methods
- multicultural education
- research and current issues
- early childhood curriculum and program development for inclusive classrooms
- working collaboratively with parents and families
- program administration/leadership

The early childhood education program provides specialized training in:

- language acquisition and development
- literacy instruction
- infant/toddler development
- early childhood mental health and social competence

The early childhood special education program provides specialized training in:

- screening and assessment of young children
- intervention strategies with infants and preschoolers
- behavior management
- working as a member of the transdisciplinary team
- cognitive and socio-emotional development and disorders
- treatment of children who have neurological impairment and chronic illness
- challenging behaviors and autism

For more information on coursework and plans of study, please contact an advisor in the School of Education and Human Development.

Fieldwork and Practicum Requirements

The master's degree in early childhood education includes a total of 425 hours of required fieldwork/practica. Approximately 200 hours of fieldwork are associated with course assignments; 225 hours of intense, culminating practica occur toward the end of the second year of study. Students completing the MA program take a written comprehensive exam (take home) during the final semester of their program (concurrently with courses at the end of the program sequence).

For the master's degree in early childhood education plus the ECSE specialist initial license, a total of 800 hours of fieldwork/practica is required. Approximately 290 hours of fieldwork are associated with course assignments; 510 hours of intense, culminating practica occur toward the end of the second year of study. Students seeking an added endorsement in ECSE specialist also complete 510 hours of practicum experiences.

ECONOMICS MA

► Graduate School Rules apply to this program

Admissions Advisor: Brian Duncan (brian.duncan@ucdenver.edu)

Schedule Advisor: Hani Mansour (hani.mansour@ucdenver.edu)

The MA program in economics is designed to train students in the quantitative and applied economic skills that will best enhance their future employment opportunities in the private and public sectors, or their pursuit of PhD studies in economics or related fields.

Our MA program emphasizes extensive training in mathematical and quantitative analysis, including the provision of substantial exposure to applied econometrics, working with large and diverse data sets, and a wide range of statistical software. The program gives students the applied skills that employers demand, provides those pursuing advanced degrees an edge in gaining admission to top-flight PhD programs—and enhances the likelihood of the student's ultimate success.

Admission Requirements

- Meet all general admission requirements of the Graduate School (including a 2.50 undergraduate grade-point average).
- Submit three letters of recommendation (at least two letters should come from individuals who are familiar with your scholarly record. The third can be an additional academic reference or professional reference from someone who knows you well and can comment on your potential as a graduate student).
- Submit official transcripts from all colleges attended.
- Have completed 15 credit hours of undergraduate economics, including intermediate microeconomic theory and intermediate macroeconomic theory (upper division courses).
- Have completed courses in calculus and statistics (preferably a year of calculus and a course in econometrics or similar upper division statistics course. A course in linear algebra and/or differential equations is recommended).
- Submit GRE scores. All applicants, international and domestic, must submit GRE scores regardless of prior degrees, course work, or work experience. The institution code for CU Denver is 4875. Most students admitted to the MA program in economics score 154 or above (690 or above using the prior test scale) on the quantitative section of the GRE. However, this is not a minimum GRE cutoff score, nor is it a score above which admission is guaranteed. GRE scores are used in conjunction with other indicators of academic success at the Master's level.

Applicants must show strong evidence of quantitative ability either through high grades in math, statistics, and economic courses, a high quant score on the GRE, or preferably both.

- International students must submit TOEFL scores. The minimum required score is 203 (computer-based TOEFL), 75 (IBT-based TOEFL), 537 (paper-based TOEFL), or 6.5 (IELTS). The institution code for CU Denver is 4875. The minimum TOEFL scores are a requirement of the Graduate School and cannot be waived by the department of economics. The Graduate School may waive the TOEFL requirement for applicants who have attended a college or university in the United States as a full-time student and have completed two semesters of academic work with a "B" average (3.0 GPA or higher). Please contact the International Admissions office if you have questions about this requirement.

Application Deadlines:

Fall June 1

Spring December 1

The Department of Economics accepts late applications after these official deadlines. However, there is no guarantee that a late application will be processed in time for the start of the semester. Students are encouraged to apply well in advance the application deadline.

International students who apply after the June 1 or December 1 deadline may not have time to obtain a student visa. Being admitted to the MA program in economics does not guarantee that a student will receive a student visa in time for the start of the semester. International students who are admitted to the MA program, but fail to obtain a visa in time, may defer admission for up to one year. All questions about student visas should be directed to the Office of International Admissions.

Degree Requirements

The MA degree requires the completion of 30 semester hours of coursework, of which 21 hours are core requirements. Each student's plan will be worked out in conjunction with the graduate advisor.

Students are expected to meet all course prerequisites. A grade of B- or better is required in all courses, with a cumulative grade point average of B (3.0) or above. No course may be taken more than twice.

Core Courses

- ECON 5073 - Microeconomic Theory
- ECON 5083 - Macroeconomic Theory
- ECON 5803 - Mathematical Economics
- ECON 5813 - Econometrics I
- ECON 5823 - Econometrics II
- ECON 6053 - Seminar In Applied Economics
- ECON 6054 - Seminar In Applied Economics II
- ECON 6073 - Research Seminar

Total: 21 hours

Electives

Three courses numbered 5000 or higher with an ECON prefix (9 semester hours). After completing 6 credit hours of ECON 6053/6054 as part of the economics core, additional ECON 6053/6054 courses may be counted as electives.

Total: 9 Hours

Degree Total: 30 Hours

EDUCATIONAL PSYCHOLOGY MA

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: www.ucdenver.edu/education

Faculty

Information about educational psychology faculty is available online at www.ucdenver.edu/education.

Master's Degree

The MA program in educational psychology prepares students to facilitate the teaching/learning process and to lead and work in community-based environments. Thus, many students pursue the degree to enhance their skills as professional classroom teachers. The degree also provides skills necessary for a variety of roles in educational and teaching settings or community environments where knowledge of learning, development, motivation, and research is essential such as teaching at the community college level, teaching adults, consulting, developing assessments, community-based leadership, and conducting program evaluation. Other students seek the MA as preparation for advanced study in educational psychology, human development and family studies, research, or related fields.

Areas of Study

Five major areas of concentration are available—human learning, human development, human development and family relations, research and evaluation, and assessment. Regardless of the concentration area selected, all students must:

- demonstrate competence in educational psychology by successfully completing 36 semester hours of relevant course work;
- complete either a practicum, a master's thesis, or an independent study project in consultation with their faculty advisor based on the students' professional and academic goals; and
- perform satisfactorily on a written comprehensive examination (typically during the last term enrolled in regular courses).

Human Learning

This program concentration provides opportunities for you to develop an in-depth understanding about educational psychology as it relates to human learning by persons of all ages, especially in formal education contexts. Your classes will focus on learning, related process, and teaching.

Human Development

This program concentration provides opportunities for you to develop in-depth understanding about educational psychology as it relates to human development. You'll study developmental characteristics of children, adolescents, and adults - including cognitive, social and emotional, language, and physical development.

Human Development and Family Relations (HDFR)

Students will engage in developing their skills to work in and lead community-based organizations including, but not limited to secular, faith-based, for profit, nonprofit, school-based, and local, state, federal and international organizations. Students can also develop their knowledge in family relations in preparation for doctorate studies in HDFR or related areas. Students who complete the MA in EPSY with HDFR emphasis will also be eligible to complete the bilingual (Spanish) Family and Community Services concentration area in preparation to work with Spanish speaking families and communities. Advisor approval is required for this concentration.

The HDFR area also provides classes to all School of Education and Human Development (SEHD) graduate programs, offering courses in Latino family, school and community systems, family resource management, leadership and organizations, grant writing and program development and fund raising.

Research and Evaluation Methods (RSEM)

RSEM students will acquire skills necessary for a variety of roles that involve data driven decisions. Students who complete the MA will be better prepared to facilitate decision making based on evidence. Some students pursue the degree to enhance their skills as classroom teachers; others move out of the classroom and work in environments where information and data from different sources can be used to make informed decisions.

The RSEM area also provides classes to all education graduate programs, offering courses in research methods, evaluation, statistics, analysis, assessment, and measurement.

Assessment

This program concentration provides opportunities for you to develop an in-depth understanding about educational psychology as it relates to learning-related assessment. You'll address issues in both classroom and large-scale assessment and focus on other forms of assessment, such as portfolios and performance assessments. You also may specialize in assessment in a content area like literacy or mathematics.

ELECTRICAL ENGINEERING MENG

- ▶ Graduate School Rules apply to this program

A minimum of 30 credit semester hour of academic work acceptable to the Advisory Committee (within the rules established by the College of Engineering and Applied Science) will be required for the Master of Engineering degree. In compliance with the Graduate School rules, the minimum grade required for a unit to count toward the 30 semester hours is a B minus (2.7). To couple this degree with electrical engineering, at least 15 of these hours must be 5000-level or above in electrical engineering courses, and must be taken in the CU Denver Department of Electrical Engineering. As many as 15 hours can be taken outside of engineering, included 3 credit hours for the master of engineering project. The project should cover some area of creative investigation performed by the student and may relate directly to his/her professional work. The project must be defended orally before the Advisory Committee.

The student who wishes to enter the master of engineering program should apply to the electrical engineering department in the same manner as a master of science applicant.

ELECTRICAL ENGINEERING MS

- ▶ Graduate School Rules apply to this program

To fulfill the requirements for the master of science in electrical engineering (MSEE), the Electrical Engineering Department at CU Denver requires that within a seven-year period, the candidate completes and approved program in one of two options: (a) a **thesis option** consisting of at least 30 semester hours or (b) a **course-only option** consisting of at least 30 semester hours. It is also required the the MSEE candidate maintain a grade point average of 3.0 or higher. In compliance with the Graduate School rules, the *minimum* grade required for a unit to count toward the required semester hours is B minus (2.7).

ENGLISH MA

- ▶ Graduate School Rules apply to this program

Program Director: Michelle Comstock

Telephone: 303-556-8479

E-mail: Michelle.Comstock@ucdenver.edu

The department offers three programs in the English MA degree: 1) the literature program increases students' knowledge of English and American literature and also their familiarity with a variety of critical methodologies; 2) the rhetoric and teaching of writing program introduces students to the theory, research and pedagogy underlying contemporary instruction in secondary and college composition; 3) the applied linguistics program introduces students to the principles, practices and concerns of teaching English to adults whose first language is not English.

Students concurrently pursuing a master's in education can count up to 6 hours of education courses toward their MA in English with their English advisor's permission.

Contact the graduate program director for more information on these programs.

Requirements for Admission

Applicants for any of the programs described above must submit all application materials by either the spring, summer or fall deadline. The deadline for summer or fall admission is April 1; the deadline for spring is October 1. Complete applications for all three programs must include the following:

- a completed University of Colorado graduate application
- one copy of all graduate and undergraduate transcripts, and for any nondegree courses previously taken
- three letters of recommendation in which the recommender specifically addresses the candidate's ability to pursue successfully the program chosen
- recent scores on the GRE, including the analytical, verbal and quantitative portions. GRE score average should be 155 or higher. Analytical writing score should be 4 or higher.
- evidence of a 3.0 GPA in previous courses
- a one-page statement of purpose
- 10-page critical writing sample

In addition to these requirements, applicants for the literature program must have successfully completed 24 semester hours in English courses (graduate or undergraduate), excluding courses in composition, creative writing or speech. At least 15 of these semester hours must be at the upper-division level.

Transfer of Credits from Other CU Campuses

Students admitted to graduate study in English may complete all of their course requirements for the MA degree at CU Denver. Up to 9 semester hours (total) may be transferred from the University of Colorado Boulder, University of Colorado Colorado Springs or other graduate program; however, such transfer requires the written approval of the specific program coordinator. Only 9 semester hours of courses taken at CU Denver before acceptance into the program can be counted toward the degree. Further, work already applied toward a graduate degree received at the University of Colorado or at another institution cannot be transferred toward another graduate degree of the same level at CU Denver. (For other rules concerning transfer of graduate credits, see the Graduate School Rules .) For more information, contact the graduate program director at 303-556-8479.

Degree Requirements

The literature program requires 31-34 semester hours; the rhetoric and teaching of writing program requires 30-31 hours; the applied linguistics program requires 30-31 hours. Students must receive a *B-* or above in all courses counted toward the MA degree.

Literature Program

This program provides a general knowledge of English and American literature, a familiarity with the range of theoretical approaches and critical methodologies, and an opportunity to take courses in film studies and ethnic and world literature.

GENERAL REQUIREMENTS

- Satisfactory completion of all required course work
- Satisfactory completion of the MA comprehensive exam OR thesis submission and defense
- Demonstrated fourth-semester proficiency in a foreign language. Old English or Latin will also satisfy this requirement
- Compliance with all graduate school policies and requirements

COURSE REQUIREMENTS (30 SEMESTER HOURS MINIMUM)

All courses are 3 credit hours unless otherwise noted. A minimum of 9 semester hours must be taken at the 6000 level.

REQUIRED COURSES

- ENGL 5100 - Literary Research and Writing
- ENGL 6001 - Critical Theory in Literature and Film

Total: 6 Hours

AREA REQUIREMENTS

Choose seven courses at the 5000/6000 level which fulfill seven different areas from the following 9 areas:

1. Classics
2. Medieval literature
3. Renaissance literature
4. Restoration and 18th-century literature
5. Romanticism
6. American literature, pre-1900
7. Victorian literature
8. American literature or film, post-1900
9. British modernism/ 20th-century British literature or film

Any graduate literature/film course will fulfill at least one of these areas. Each area can be satisfied by several different courses periodically offered. Historical surveys count within the most appropriate area based on the syllabus. Courses in film, world literature, ethnic literature and women's literature generally fulfill one of the 20th-century areas.

Total: 21 Hours

ELECTIVES

Choose one of the following:

- ENGL 5093 - Teaching of Writing
- ENGL 5913 - Practicum in Language and Rhetoric
An ENGL 5000- or 6000-level literature or film course

Total: 3 Hours

THESIS OR NON-THESIS OPTIONS

Non-Thesis Option

Students not writing a thesis must take the MA comprehensive exam. Prior to the exam, students may take ENGL 6920. Directed Readings

for 1-3 semester hours to help them prepare for the exam, but this is not required.

Students must be registered during the semester in which they take the MA comprehensive exam, which can be met by signing up for candidate for degree (CAND 5940-900) if all course work is completed.

Thesis Option

Students must submit a proposal for a thesis to the graduate program director for permission to proceed to the thesis.

- ENGL 6950 - Master's Thesis (4-6 hours)
For details about writing, submitting and defending a thesis, see the current thesis guidelines.

Total Thesis Credits: 4-6 Hours

LANGUAGE REQUIREMENT

Students must demonstrate fourth-semester proficiency in a foreign language. Old English or Latin also satisfies this requirement.

Literature Program Total: 31-34 Hours

Rhetoric and Teaching of Writing Program

In this program, you'll study rhetorical and language traditions and apply that knowledge to the teaching of writing. Knowledge of multicultural dimensions of literacy will help you understand the rich cultural complexity of the modern classroom.

COURSE REQUIREMENTS (30 SEMESTER HOURS MINIMUM)

All courses are 3 credit hours unless otherwise noted.

REQUIRED COURSES

- ENGL 5080 - History of the English Language
- -OR- ENGL 5171 - Language Theory
- ENGL 5093 - Teaching of Writing
- ENGL 5150 - Research Methods
- ENGL 5190 - Special Topics in Rhetoric and Writing
- ENGL 5651 - Second Language Writing
- ENGL 6002 - Rhetorical Theory

Total: 18 Hours

AREA OF CONCENTRATION

Chosen by the student and approved by the student's advisor, three courses are taken in an area of concentration which may be in virtually any field that complements the required core and that meets the student's goals in the program. Representative areas include but are not limited to literature, technical communication, reading, English as a second language and communication. ENGL 5913. Practicum in Language and Rhetoric may be included among these nine hours.

Total: 9 Hours

THESIS OR PORTFOLIO EXAM

ENGL 6950. Master's Thesis

For details about writing, submitting and defending a thesis, see the current thesis guidelines.

-OR-

ENGL 6970. Portfolio Examination

Total: 3-6 Hours

Rhetoric and Teaching of Writing Total: 30-31 Hours

Applied Linguistics Program

If you want a thorough grounding in the principles and practice of teaching English to non-native adult users of English with a special focus on the discourses of the classroom and on teaching second-language writers, this program is a good choice.

GENERAL REQUIREMENTS

Foreign Language: Students must demonstrate fourth semester proficiency in a foreign language prior to graduation; assessment of proficiency depends on the language to be demonstrated.

Internship: Those students who are not teaching adult ESL students at the time of their course work will be required to take a 3–6 credit internship in an area language school, workplace or high school/college

ESL program, either through the Experiential Learning Center or by arrangement with the program coordinator.

COURSE REQUIREMENTS (30 SEMESTER HOURS MINIMUM)

All courses are 3 credit hours unless otherwise noted.

REQUIRED CORE COURSES

- ENGL 5093 - Teaching of Writing
- ENGL 5150 - Research Methods
- ENGL 5171 - Language Theory
- ENGL 5601 - Principles and Practices of Second Language Acquisition
- ENGL 5651 - Second Language Writing
- ENGL 5913 - Practicum in Language and Rhetoric
-OR- an ENGL elective approved by the student's advisor

Total: 18 Hours

ELECTIVES: LANGUAGE OR RHETORIC COURSES

Choose two:

- ENGL 5080 - History of the English Language
- ENGL 5190 - Special Topics in Rhetoric and Writing
- ENGL 6002 - Rhetorical Theory

Total: 6 Hours

THESIS OR PORTFOLIO EXAM

ENGL 6950. Master's Thesis (4-6 hours)

For details about writing, submitting and defending a thesis, see the current Graduate Student Handbook .

-OR-

ENGL 6970. Portfolio Examination

Total: 3-6 Hours

Applied Linguistics Total: 30-31 Hours

Additional Information

Candidate for Degree: Graduate students must be registered for at least one credit hour during the semester in which they graduate. Those who have completed all required courses and requirements may register for candidate for degree: CAND 5940; this carries no course credit, but you are billed for one credit of tuition and \$10 in fees.

Teaching Assistantships: Graduate students who receive a teaching assistantship must take the following course in the fall during their first semester as a teaching assistant.

ENGL 5913. Practicum in Language and Rhetoric

Dual Degrees: Students concurrently pursuing a MA in education can count up to six hours of education courses toward their MA in English, with their English graduate advisor's permission.

ENVIRONMENTAL SCIENCES MS

- ▶ Graduate School Rules apply to this program

Program Director: Frederick B. Chambers

Associate Program Director: Jon Barbour

Office: North Classroom, 3622

Telephone: 303-556-4520

Fax: 303-556-6197

E-mail: Jon.Barbour@ucdenver.edu

Web site: clas.ucdenver.edu/ges/mses.html

[Faculty Affiliates to the M.S. in Environmental Sciences Program](#)

Professors:

Larry Anderson, chemistry

Lloyd Burton, School of Public Affairs

N. Y. Chang, civil engineering

Anne Chin, geography and environmental science

James C. Y. Guo, civil engineering

John A. Lanning, chemistry

Diana F. Tomback, integrative biology

Associate Professors:

Leo P. Bruederle, integrative biology

Frederick B. Chambers, geography and environmental science

Greg Cronin, integrative biology

Rafael Moreno-Sanchez, geography and environmental science

Glenn T. Morris, political science

Brian Page, geography and environmental science

Timberly M. Roane, integrative biology

Deborah S. K. Thomas, geography and environmental science

John W. Wyckoff, geography and environmental science

Assistant Professors:

Casey Allen, geography and environmental science

Peter Anthamatten, geography and environmental science

Christy Briles, geography and environmental science

Michael J. Green, integrative biology

Gregory Simon, geography and environmental science

Bryan S. Wee, geography and environmental science

Instructors/Adjunct Faculty:

Jon Barbour, geography and environmental science

Amanda Weaver, geography and environmental science

Environmental sciences is a multidisciplinary study of the environment, housed in the Department of Geography and Environmental Sciences. Academic fields involved in environmental sciences include chemistry, biology and ecology, physics, geology, geography, anthropology, engineering, political science, law, economics and the health sciences. Students planning to pursue the MS in environmental sciences must either have earned a bachelor's degree or have taken significant course work in the natural/physical sciences or engineering and completed several other prerequisites (see the following graduate information). Graduate-level certificates in environmental sciences are also offered. The certificates may be earned stand-alone or as options in the MS in environmental sciences.

Environmental careers encompass a broad range of professions, from those with a strong foundation in the natural/physical sciences or engineering to those based in the social sciences and/or humanities. Students interested in environmental issues and careers should investigate the whole field before deciding which course to follow. At CU Denver, the MS in environmental sciences emphasizes the natural/physical sciences and engineering with the addition of the social sciences and humanities.

The MS in environmental sciences degree is designed to provide training in engineering, natural/physical sciences and socioeconomic analysis. The goals of the program are to (1) enhance the interdisciplinary communication and analytical skills of the student, and (2) provide a multidisciplinary approach for more intensive study of a particular environmental issue. Students will receive instruction in the physical and biological dynamics of various ecosystems, environmental engineering and socioeconomic issues associated with environmental analysis.

Graduates of the environmental sciences program are involved in many different areas, such as reviewing environmental impact statements, monitoring groundwater quality and communicating with the public. Many students have found employment in various agencies (U.S. Environmental Protection Agency, U.S. Geological Survey, Colorado State Department of Public Health and Environment) and private-sector environmental and engineering firms.

Requirements for Admission

The program is for students who either have baccalaureate degrees or significant background in one of the natural/physical sciences or engineering. In addition, minimum undergraduate science and math requirements are:

- one semester of calculus and one semester of upper-division statistics (*if applicant is missing the statistics course, he/she can be admitted but must take ENVS 5600, Applied Statistics, or an approved statistics course as an elective before receiving the MS in environmental sciences degree*)
- two semesters general chemistry with lab
- one semester physics
- two semesters general biology with lab

If only two semesters of the six prerequisite courses are lacking, students may be admitted, but must take them in the first year in the program. Applicants who have fulfilled all prerequisites have a better chance of acceptance. Applicants may be required to take additional prerequisite courses (necessary for completing particular core or elective courses). The prerequisite courses will not count toward the MS in environmental sciences degree. As part of the admission review process, applicants are required to submit a graduate application, a minimum of three letters of recommendation and transcripts from all institutions previously attended. CU Denver has a minimum requirement of a 3.0 undergraduate GPA for applicants to the Graduate School. The program admits new students for the fall semester only, and the number of students admitted to the program depends, in part, on space availability. **Applicants must submit all materials by the April 1 deadline.**

Financial Aid

There are three types of financial aid available: tuition assistance; research assistantship positions funded by grants to specific program faculty; and the regular package of financial aid (primarily loans) available through the financial aid office on the Denver campus. Incoming students will be automatically considered for program-distributed tuition assistance at the time of admission to the program. Continuing students will be regularly apprised of available aid and positions. Students interested in research assistantships should consult individual faculty with whom they wish to work regarding potential assistantship positions. All other aid should be requested through the CU Denver Financial Aid Office, North Classroom, 1030, Campus Box 125, P.O. Box 173364, Denver, CO 80217-3364. Telephone: 303-556-2886.

Internships

Students in the MS in environmental sciences program are strongly encouraged to contact the Experiential Learning Center for internships and paid positions related to environmental sciences. The Experiential Learning Center is located in the Tivoli Student Union, Suite 260. Telephone: 303-556-2250. Many students have had internships in federal agencies, such as the U.S. Environmental Protection Agency and the U.S. Geological Survey.

Program Requirements

The MS in environmental sciences is a 39-hour program that provides students with two alternate plans: Plan I requires a thesis, while Plan II is a nonthesis program. General requirements for the program

include: a set of core courses (18 semester hours), the MS in environmental sciences seminar course (ENVS 6002, 3 semester hours), and elective courses (12 semester hours minimum). Students choosing Plan I must also complete 6 hours of thesis, while those choosing Plan II must complete 6 hours of additional elective course work. Students opting for Plan II are encouraged to enroll in 3 hours of independent study (ENVS 6840) as one of their electives.

The degree is offered through the College of Liberal Arts and Sciences with the cooperation of the College of Engineering and Applied Science. In addition, some courses offered by the College of Architecture and Planning, the School of Public Affairs and the Business School are relevant and applicable to the program.

Required Core Courses

Fall

- CVEN 5401 - Introduction to Environmental Engineering

Seminar Course

Students are required to register for ENVS 6002, Environmental Sciences Seminar, in the first fall semester they are enrolled in the MS in Environmental Sciences program. The seminar serves as an introduction to the program and helps students to develop research skills and further their professional development.

- ENVS 6002 - Environmental Sciences Seminar
- ENVS 6200 - Risk Assessment
- GEOG 5440 - Science, Policy and the Environment

Spring

- BIOL 5445 - Applied Environmental Biology
- CHEM 5700 - Environmental Chemistry
- ENVS 5280 - Environmental Hydrology

Total: 18 Hours

The core courses are to be taken first upon entry into the program. They are the foundation for other courses in environmental sciences.

Elective Courses

(See the MS in Environmental Sciences website for a complete list of elective courses for the MS in environmental sciences program.)

Students, with the coordinator and/or an advisor, will complete a program plan that will include 12-18 semester hours of elective requirements that will meet their interests. Students may choose to use four of the electives to fulfill one of the following options offered in environmental sciences: air quality, ecosystems, environmental health, environmental science education, geospatial analysis, hazardous waste and water quality. Students must have the prerequisites for each course and must meet the

requirements listed in the notes below. Contact the option advisor for the particular option of interest before starting. Upon graduation, the option will be noted on the student's transcript.

Following are the requirements for each environmental sciences option:

AIR QUALITY OPTION

Option Advisor: Jon Barbour

Telephone: 303-556-4520

E-mail: Jon.Barbour@ucdenver.edu

Required Courses

- CHEM 5710 - Air Pollution Chemistry
- ENVS 5730 - Air Quality Modeling and Analysis

Total: 6 Hours

Electives

Choose two:

- CHEM 5720 - Atmospheric Sampling and Analysis
- CVEN 5800 - Special Topics
(when Air Pollution Control is the topic)
- URPL 6800 - Special Topics: Urban and Regional Planning
(when Air Quality Planning and Policy is the topic)

Total: 6 Hours

Option Total: 12 Hours

ECOSYSTEMS OPTION*

Option Advisor: Casey Allen

Telephone: 303-556-6007

E-mail: Casey.Allen@ucdenver.edu

Required Courses

- BIOL 5415 - Microbial Ecology
- ENVS 5010 - Landscape Geochemistry

Total: 6 Hours

Electives

Choose two:

- BIOL 5050 - Advanced Biology Topics
(when Seminar in Aquatic Ecology is the topic)
- BIOL 5154 - Conservation Biology
- ENV5 5500 - Topics in Environmental Sciences
(when Ecological Risk Assessment is the topic) (See Note 2)
- ENV5 6220 - Toxicology
(see Note 2)
- GEOG 5060 - Remote Sensing I: Introduction to Environmental Remote Sensing

Total: 6 Hours

Option Total: 12 Hours

* BIOL 5445, Applied Environmental Biology, is required as a prerequisite for the ecosystems option.

ENVIRONMENTAL HEALTH OPTION*

Option Advisor: Deborah Thomas

Telephone: 303-556-5292

E-mail: Deborah.Thomas@ucdenver.edu

Required Courses

- ENV5 6220 - Toxicology
(see Note 2) (fall, even years)
- ENV5 6230 - Environmental Epidemiology
(spring, even years)

Total: 6 Hours

Electives

Choose two:

- ANTH 4010 - Medical Anthropology: Global Health
- ENV5 5500 - Topics in Environmental Sciences
(when Ecological Risk Assessment is the topic) (See Note 2)
- ENV5 6210 - Human Health and Environmental Pollution
(spring, odd years)
- PUAD 5633 - Seminar in Natural Resource and Environmental Health Law

Total: 6 Hours

Option Total: 12 Hours

* ENV5 6200, Risk Assessment, is required as a prerequisite for the environmental health option.

ENVIRONMENTAL SCIENCE EDUCATION OPTION

Option Advisor: Bryan Wee

Telephone: 303-315-4992

E-mail: bryan.wee@ucdenver.edu

Required Courses

- ENVS 5500 - Topics in Environmental Sciences
(when Survey of Field Methods is the topic)
Choose one from the following:
- ELED 5340 - Multicultural Science Education
- ENVS 5340 - Multicultural Science Education
- SECE 5340 - Multicultural Science Education

Total: 6 Hours

Electives:

Choose two:

- ANTH 5170 - Culture and the Environment
- BIOL 5154 - Conservation Biology
- COMM 5282 - Environmental Communication
- GEOG 5335 - Contemporary Environmental Issues
- GEOG 5350 - Environment and Society in the American Past
Or another elective approved by the option advisor

Total: 6 Hours

Option Total: 12 Hours

GEOSPATIAL ANALYSIS OPTION*

Option Advisor: Rafael Moreno

Telephone: 303-556-3762

E-mail: Rafael.Moreno@ucdenver.edu

Required Courses

- GEOG 5080 - Introduction to GIS
- GEOG 5090 - Environmental Modeling with Geographic Information Systems

Total: 6 Hours

Electives

Choose two:

- CVEN 5382 - GIS Spatial Database Development
- CVEN 5385 - GIS Relational Database Systems
- CVEN 5386 - GIS Laboratory

Total: 6 Hours

Option Total: 12 Hours

* GEOG 3080, Introduction to Mapping and Map Analysis, is required as a prerequisite of the geospatial analysis option.

For more information, contact the option advisor or Jon Barbour at 303-556-4520, Jon.Barbour@ucdenver.edu.

WATER QUALITY OPTION*

Option Advisor: John Wyckoff

Telephone: 303-556-2590

E-mail: John.Wyckoff@ucdenver.edu

Required Courses

Choose two:

- BIOL 5416 - Aquatic Ecology
- ENVS 5280 - Environmental Hydrology
- ENVS 5410 - Aquatic Chemistry

Total: 6 Hours

Electives

Choose two:

- CVEN 5333 - Applied Hydrology
- CVEN 5334 - Groundwater Hydrology
- CVEN 5343 - Open Channel Hydraulics
- CVEN 5393 - Water Resources Development and Management
- ENVS 5280 - Environmental Hydrology (if not selected as one of the required courses)
- ENVS 5403 - Unsaturated Zone Hydrology

Total: 6 Hours

Option Total: 12 Hours

*CHEM 5700, Environmental Chemistry, or appropriate chemistry background is required as a prerequisite of the water quality option.

Notes:

1. Many of the courses have prerequisites; student must check the catalog for prerequisite requirements for these courses. Some options have a prerequisite course requirement.
2. One course may not be used for more than one option, even if it is listed in several options. Other courses may be offered that will be acceptable as electives with approval of the option advisor and the director of the program.
3. No more than three courses may be from any one discipline (excluding ENVS); i.e., chemistry, biology, civil engineering.
4. Courses used by the student to fulfill a core requirement may not be used to fulfill the options.
5. All work submitted for the environmental sciences options must have a grade of *B* (3.0) or better.
6. All courses for the environmental sciences options must be completed at the Denver campus.
7. Courses applied to either a certificate* or an MS degree may later be applied toward the other if all pertinent course work is completed within a five-year time period.

* The above options of the program may be taken to earn a corresponding environmental sciences certificate. However, certificates may be earned without entrance into the MS in environmental sciences program. (See the Environmental Sciences Graduate Certificate description).

EXECUTIVE MBA IN HEALTH ADMINISTRATION

Distinctive Features of the Executive Program in Health Administration

1. Drawing on the expertise represented by the faculties of a consortium of western universities, the program offers high-quality courses taught by instructors that are typically not available from a single university.
2. The executive program facilitates learning for professionals who have continuing career and family responsibilities. The program is especially tailored for working individuals, allowing students to remain on their jobs while completing their educational program.
3. The program employs innovation in the technology of educational delivery. Learning methods include:
 - computer-assisted instruction and self-paced learning packages
 - computer conferencing and electronic case analyses
 - on-campus sessions

For application and additional information, write to:

Executive Program in Health Administration
The Business School

University of Colorado Denver
P.O. Box 480006
Denver, CO 80248-0006
www.colorado.edu/execed

FINANCE AND RISK MANAGEMENT MS

Program Director: Ajeyo Banerjee
Email: Ajeyo.Banerjee@ucdenver.edu
Telephone: 303.315.8456

The master of science in finance and risk management provides the necessary depth and specialized expertise to meet the needs of businesses for financial managers, investment analysts and other finance specialists.

The program emphasizes a familiarity with the institutions in our financial system, an understanding of financial markets and instruments, and the analytical skills and tools necessary to make informed decisions about investment and financing.

The program is suited to students from a wide variety of undergraduate backgrounds and is particularly appropriate to students with strong technical and analytical backgrounds. Admission standards for the MS finance and risk management program are unique to the program. Therefore, admission to other graduate business programs does not guarantee admission into the MS finance and risk management program.

The MS in finance and risk management offers flexibility with on-campus and online courses. The MS finance and risk management degree requirements are met by the following courses and options:

Prerequisites

Prerequisites: BUSN 6550, Analyzing and Interpreting Accounting Information, or the equivalent accounting background. Students are also expected to be knowledgeable in spreadsheet software and have quantitative skills evidenced by a 40% GMAT quantitative score or equivalent.

Finance and Risk Management Core: (18 hours)

- FNCE 6290 - Quantitative Methods for Finance
 - BUSN 6620 - Applied Economics for Managers
 - BUSN 6640 - Financial Management
 - FNCE 6300 - Macroeconomics and Financial Markets
 - FNCE 6330 - Investment Management Analysis
- Select 1 of the following 3 courses:**
- FNCE 6380 - Futures and Options
 - FNCE 6382 - Survey of Financial and Commodity Derivatives
 - FNCE 6410 - Real Options and Decisions Under Uncertainty

Specializations: (12 hours)

Students must complete one of the following **Specializations**:

Finance Specialization

Students must select at least 3 courses with **FNCE/CMDT/RISK** prefix, numbered 6000 or higher. Remaining Finance Elective may be any of the following courses: **FNCE/CMDT/RISK** course numbered 6000 or higher, **ACCT 6140** Tax Planning for Managers, **ACCT 6340** Financial Statement Analysis, **ENTP 6824** Entrepreneurial Financial Management, **ECON 5803** Mathematical Economics, **ECON 5813** Econometrics I, **ECON 5823** Econometrics II, **ECON 6801** Advanced Mathematical Economics, **MATH 5351** Actuarial Models, **MATH 5792** Probabilistic Modeling, or **MATH 5390** Game Theory.

Financial Analysis and Management Specialization

Select 3 or 4:

- FNCE 6129 - Practical Enterprise Risk Management
 - OR**
 - RISK 6129 - Practical Enterprise Risk Management
 - FNCE 6310 - Financial Decisions and Policies
 - FNCE 6340 - Business Firm Valuation
 - FNCE 6360 - Management of Financial Institutions
 - FNCE 6410 - Real Options and Decisions Under Uncertainty *FNCE 6410 cannot be used towards specialization if taken in Finance core.
 - FNCE 6411 - International Corporate Governance
 - FNCE 6420 - Mergers and Acquisitions
 - FNCE 6450 - Short-Term Financial Management
 - FNCE 6460 - Emerging Market Finance
 - FNCE 6480 - Financial Modeling
 - FNCE 6482 - Advanced Portfolio Management
 - OR**
 - CMDT 6482 - Advanced Portfolio Management
 - FNCE 6809 - Principles of Risk and Insurance
 - OR**
 - RISK 6809 - Principles of Risk Management & Insurance
 - FNCE 6909 - Corporate Risk Management
 - OR**
 - RISK 6909 - Corporate Risk Management
 - FNCE 6509 - Global Risk Management
 - OR**
 - RISK 6509 - Global Risk Management
- If 3 courses completed from list above, select 1 course from the list below:**
- ACCT 6140 - Tax Planning for Managers
 - ACCT 6340 - Financial Statement Analysis
 - ENTP 6824 - Entrepreneurial Financial Management

- MATH 5390 - Game Theory
- FNCE 6802 - Foundations of Commodities
- OR**
- CMDT 6802 - Foundations of Commodities

Financial and Commodities Risk Management Specialization

Select 3 or 4 of the following courses:

- FNCE 6129 - Practical Enterprise Risk Management
- OR**
- RISK 6129 - Practical Enterprise Risk Management
- FNCE 6350 - Financial Innovations
- FNCE 6360 - Management of Financial Institutions
- FNCE 6370 - International Financial Management
- FNCE 6380 - Futures and Options *
- FNCE 6382 - Survey of Financial and Commodity Derivatives *
- FNCE 6410 - Real Options and Decisions Under Uncertainty *
- *FNCE 6380, FNCE 6382, or FNCE 6410 cannot be used towards specialization if taken in Finance core.
- FNCE 6460 - Emerging Market Finance
- FNCE 6480 - Financial Modeling
- FNCE 6482 - Advanced Portfolio Management
- OR**
- CMDT 6482 - Advanced Portofolio Management
- FNCE 6509 - Global Risk Management
- OR**
- RISK 6509 - Global Risk Management
- FNCE 6809 - Principles of Risk and Insurance
- OR**
- RISK 6809 - Principles of Risk Management & Insurance
- RISK 6909 - Corporate Risk Management
- OR**
- FNCE 6909 - Corporate Risk Management
- If 3 courses completed from list above, select 1 course from the list below:**
- ECON 5823 - Econometrics II
- ECON 6801 - Advanced Mathematical Economics
- MATH 5351 - Actuarial Models
- MATH 5792 - Probabilistic Modeling
- FNCE 6802 - Foundations of Commodities
- OR**
- CMDT 6802 - Foundations of Commodities

Risk Management and Insurance Specialization

Risk Management and Insurance Core (9 hours)

- FNCE 6129 - Practical Enterprise Risk Management
- OR**
- RISK 6129 - Practical Enterprise Risk Management
- FNCE 6809 - Principles of Risk and Insurance
- OR**
- RISK 6809 - Principles of Risk Management & Insurance
- RISK 6909 - Corporate Risk Management
- OR**
- FNCE 6909 - Corporate Risk Management
- Quantitative Elective** (3 hours)
- Select 1 of the following:
- FNCE 6340 - Business Firm Valuation
- FNCE 6350 - Financial Innovations
- FNCE 6360 - Management of Financial Institutions
- FNCE 6380 - Futures and Options *
- FNCE 6382 - Survey of Financial and Commodity Derivatives *
- FNCE 6410 - Real Options and Decisions Under Uncertainty *
- *FNCE 6380, FNCE 6382, or FNCE 6410 cannot be used toward specializations if taken in the Finance and Risk Management Core.
- FNCE 6411 - International Corporate Governance
- FNCE 6420 - Mergers and Acquisitions
- FNCE 6480 - Financial Modeling
- FNCE 6482 - Advanced Portfolio Management
- OR**
- CMDT 6482 - Advanced Portfolio Management
- FNCE 6802 - Foundations of Commodities
- OR**
- CMDT 6802 - Foundations of Commodities
- FNCE 6509 - Global Risk Management
- OR**
- RISK 6509 - Global Risk Management
- ENTP 6824 - Entrepreneurial Financial Management
- HLTH 6040 - Healthcare Economics
- There may be additional prerequisite courses for the ECON and/or MATH selections. Please check with those departments or the graduate advisors.
- ECON 5823 - Econometrics II
- MATH 5351 - Actuarial Models
- MATH 5792 - Probabilistic Modeling

Economics Specialization

Finance and Risk Management Core (9 hours)

- BUSN 6640 - Financial Management
- FNCE 6330 - Investment Management Analysis
- Select one of the following three FNCE courses:
- FNCE 6380 - Futures and Options
- FNCE 6382 - Survey of Financial and Commodity Derivatives
- FNCE 6410 - Real Options and Decisions Under Uncertainty

Finance and Risk Management Electives (6 hours)

Select any two FNCE/RISK courses numbered 6000 or higher.

Economics Core (12 hours)

- ECON 5073 - Microeconomic Theory
- ECON 5083 - Macroeconomic Theory
- ECON 5803 - Mathematical Economics
- ECON 5813 - Econometrics I

Quantitative Elective (3 hours)

Select one of the following courses:

- ECON 5823 - Econometrics II
- ECON 6801 - Advanced Mathematical Economics
- MATH 5351 - Actuarial Models
- MATH 5390 - Game Theory
- MATH 5792 - Probabilistic Modeling

Total: 30 Hours

GLOBAL ENERGY MANAGEMENT MS

Program Advisor: Sarah Derdowski

Telephone: 303-315-8065

E-mail: Sarah.Derdowski@ucdenver.edu

Faculty

Professors/Instructors

Timothy Antoniuk, MDes, University of Alberta

William Ascher, PhD, Yale University

Stephen Brown, PhD, University of Maryland

Matthew Clarke, PhD, University of Calgary

William Fox, JD, Catholic University of America

Mean Husein, PhD, McGill University

Merrily Kaut, PhD, University of Colorado Denver

L. Ann Martin, PhD, University of Minnesota

The master of science in global energy management (GEM) prepares individuals for leadership careers in the energy industry. This degree is particularly appropriate for individuals seeking to advance their existing careers in the energy field. Prior work experience within the field is preferred, but not required. The program consists of two components: the core curriculum and the more advanced and specialized elective courses. The MS GEM program requires the completion of the following core classes as well as four elective courses from the selection listed below.

Required Courses

- GEMM 6000 - 21st Century Global Energy Issues and Realities
- GEMM 6100 - Global Energy Economics
- GEMM 6200 - Environmental, Regulatory, Legal & Political Environment in the Energy Industry
- GEMM 6300 - Technical Aspects of Energy Science
- GEMM 6400 - Leadership and Decision Making in the Global Energy Environment
- GEMM 6500 - Energy Accounting in the Global Markets
- GEMM 6600 - Introduction To Financial Management In The Energy Industry
- GEMM 6410 - People Management in the Global Energy Environment

Choose four

Choose four of the following courses. These courses are taken during the last two terms of the program and are offered based on enrollment.

- GEMM 6210 - Energy and the Law: Property and Contracts
- GEMM 6430 - Organizational Behavior in the Energy Industry
- GEMM 6450 - Strategic Management of the Energy Industry
- GEMM 6460 - Integrated Information Management for Energy Firms
- GEMM 6470 - Energy Marketing and Communications
- GEMM 6610 - Advanced Financial Management in the Energy Industry
- GEMM 6620 - Energy Asset & Production Management for the Energy Industry
- GEMM 6630 - Commercialization Management of Renewable Energies

Prerequisites

Applicants that do not have a science- or energy-related field undergraduate degree or three-plus years experience in the industry are required to take two prerequisite courses as well as the GMAT.

The prerequisite courses include physical geology and introduction to physical engineering. These courses can be taken at any accredited university, but must be approved by a GEM team staff member before registering. Also the prerequisites may be taken prior or concurrently with GEMM 6000 and GEMM 6100.

Notes and Restrictions

The program is a cohort group, hybrid online, 18-month master of science degree program. As a cohort program, all students start together, progress together and graduate together. Students cannot take time out from the program once it starts and need to plan on remaining in the program for the full 18 months. If it becomes necessary to take a term off, students may not re-enroll until the next cohort group catches up to the point where the student originally dropped out, which is 6 months later. As a hybrid online program, professors and students meet in class face to face for four days (Fridays through Mondays) at the start of each 3-month term with the rest of the term completed online. Please note that the GEM degree program runs on a completely separate schedule from the normal semester terms of the Business School. Please check the Business School Web site for deadlines and dates of each GEM

term. All GEMM courses are restricted to those students who have been admitted to the MS GEM program.

Dual Degrees

In order to participate in the dual degree options offered by the Business School, students in the GEM program must first complete their entire GEM degree before they can begin their second degree.

HEALTH ADMINISTRATION MS

Program Director: Errol L. Biggs

Telephone: 303-315-8851

E-mail: errol.biggs@ucdenver.edu

The goal of the master of science in health administration degree is to prepare men and women who, after appropriate practical experience in responsible managerial positions, are capable of assuming positions as chief executive officers or senior administrators in complex, multi-service healthcare organizations or in organizations' purchasing health services.

The curriculum is a synthesis of management concepts and techniques that are applicable to any economic organization and tools that can be specifically applied to health and health services systems. The program emphasizes skills that heighten basic analytical and decision-making processes used by top-level managers in selecting broad strategies for the institutions and by junior managers in administering subunits of health care organizations. The faculty guide the students in their mastery of theoretical, conceptual and quantitative topics.

The program has enjoyed continuous accreditation by the Commission on Accreditation of Healthcare Management Education since 1970.

A. Common Body of Knowledge (CBK): (18 hours)

Advisor will evaluate transcript for possible waivers in the CBK.

- BUSN 6521 - Leading Individuals and Teams
- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6620 - Applied Economics for Managers
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management

B. Health Administration Core: (21 hours)

- BUSN 6541 - Legal and Ethical Environment of Business (Health Section)
- BUSN 6561 - Marketing Management (Health Section)

- BUSN 6711 - Strategic Management (Health Section) *This course is intended to be taken in your last Spring semester.
- HLTH 6010 - Health Care Systems
- HLTH 6040 - Healthcare Economics
- HLTH 6770 - Healthcare Quality and Outcomes
- HLTH 6911 - Health Field Studies *This course is intended to be taken in your last Spring semester. Pre-req: HLTH 6010 or consent of instructor, minimum 3.0 cumulative GPA.

C. Health Administration Information Technology Elective: (3 hours)

Select one of the following courses:

- HLTH 6071 - Introduction To Health Information Technology
 - HLTH 6072 - Management of Healthcare Information Technology
- Please note: 2nd Health Administration Information Technology course may be used as Health Administration elective

D. Health Administration Electives: (9 hours)

Select three of the following courses:

- ENTP 6801 - Building Biotechnology
 - ENTP 6848 - Leadership in New Ventures
 - HLTH 6740 - Profiles in Health Care
 - HLTH 6070 - International Health Policy and Management
 - HLTH 6075 - International Health Travel Study
- * Students can also select HLTH 6071 or HLTH 6072 if not used as a Health Administration Information Technology Elective.

Notes and Restrictions

Management Residency. A management residency is optional, but recommended for all students, especially those with limited health care experience. The faculty of the program provide assistance to students in securing the residency, as well as regular consultation during the residency period. Information on the full range of local, regional, and national residencies is available in the program office.

Length of Program. The didactic portion of the degree will take at least two academic years, since most HA courses are offered only once each year and many have prerequisites. Part-time study is facilitated by courses being scheduled for late afternoon and evening hours.

HISTORIC PRESERVATION MS

► Graduate School Rules apply to this program

Program Director: Christopher Koziol

Office: CU Denver Building, 3200

Telephone: 303-315-5874

E-mail: christopher.koziol@ucdenver.edu

In a rapidly changing cultural, economic and professional environment, it is valuable to have an understanding of what is worth saving of the built environment. However, appreciation for the past alone is insufficient for making the informed and creative decisions expected and required of cutting-edge professionals. The desire to know can become the opportunity to lead. There is an increasingly urgent need in our professional community and in our society for the skills and knowledge that this effort requires and this degree offers.

As global economies change fewer resources are available for new buildings and we must adaptively reuse our existing structures. This trend will continue beyond short-term economic conditions, because it will always be a more sustainable practice to reuse existing buildings than to tear them down and harvest or manufacture new materials.

The College of Architecture and Planning, and the professional community that it serves, foresee a significant and permanent shift towards more adaptive reuse of existing buildings. The master of science in historic preservation is a program designed to prepare students for a true 21st Century career.

Historic preservationists come from a variety of backgrounds. Some are well-educated in the humanities and desire to increase their technical understanding. Those familiar with the social sciences might be seeking "real world" applications for their expertise. Many already with "first professional degrees" in design and planning disciplines, as well as the law and business, seek to deepen their competence in the vibrant and interesting professional niche of historic preservation.

Prerequisites

The MSHP is fully integrated into a college emphasizing design and graphic excellence. While HP students need not have fully developed skills in advance of matriculation we have found that students have benefitted from some previous exposure to:

1. Mechanical drawing/sketching
2. CAD graphics
3. Graphics software such as Adobe Creative Suite

These competencies can be demonstrated by previous course work or by portfolio/resume submission. Should any of these competencies for an admitted student be judged insufficient by the faculty, the program director may require the student to gain supplemental instruction upon matriculation to the MSHP program. Any credit awarded for such supplemental work will not be counted toward the required number of credit hours for the degree.

Admissions

Application to the master of science in historic preservation program is open to all students holding the bachelor's (undergraduate) degree from an accredited college (or its equivalent from a foreign institution).

Materials required

- A brief statement of interest (500 word max.)

- A compact portfolio (max. 15 pages 8.5" X 11") of writing samples, and optionally, graphic work and professional resume is strongly recommended.
- Submission of Graduate Record Exam (GRE) scores is recommended for applicants without evidence of prior successful graduate level accomplishment. [There is an expedited application procedure for current CU Denver students in another CAP masters program. Please inquire to the MS in historic preservation program director.]

Transfer Credit

Transfer credit of up to 12 semester hours (up to 15 semester hours for those seeking/holding a related master's degree from CU Denver) may be awarded for equivalent graduate (post-bachelor's) course work at the discretion of the program director and in keeping with CU Denver Graduate School rules. Students holding a master's degree in Architecture, Urban Planning or Landscape Architecture are typically awarded 12 to 15 semester hours of advanced standing.

Undergraduate Course Work

Undergraduate course work substantively equivalent to a MSHP required course may be accepted as a substitution for that course at the program director's discretion, but such substitution will not reduce the total number of semester hours required for the degree.

Program Requirements

The course of study is designed to accommodate the background and needs of both those students with substantial experience, and those new to the field. The curriculum is flexible but rigorous, requiring:

- 18 semester hours of core courses in preservation
- 6 hours in approved Design History courses
- 12-15 hours of electives
- 6-9 hours capstone requirement

Students enrolling full-time in the 45 semester hour curriculum typically complete the program in 3 or 4 semesters, or 18 months. However, course work other than the completion of the capstone requirement may be accomplished in a period of residency as short as 15 months. Students receiving significant transfer credit and those with a related degree may further reduce the time required for the MS degree in historic preservation.

Our program is compliant with National Council of Preservation Education Standards.

Required Core Courses

Core Preservation courses (choose at least 6 of 7):

- HIPR 6010 - Preservation Theory and Practice
- HIPR 6110 - Regionalisms & the Vernacular
- HIPR 6210 - Survey, Significance, Recognition
- HIPR 6310 - Documentation, Analysis, Representation
- HIPR 6410 - Urban Conservation: Context for Reuse
- HIPR 6510 - Building Conservation

- HIPR 6610 - Reading the City

Choose 2 approved Design History courses (offerings vary); some examples are:

- ARCH 6210 - History of American Architecture
- ARCH 6212 - History of Modern Architecture
- LDAR 5521 - History of Landscape Architecture
- URBN 6640 - History of the City
- URPL 6350 - Form and Formation of Cities

Total: 24 Hours

Electives

Choose 12-15 semester hours of related electives. These courses can be chosen across the CU Denver campus, but are most frequently selected from within the offerings of the departments in the College of Architecture and Planning. However, students have also benefited from courses offered by the School of Public Affairs, the College of Liberal Arts and Sciences, and the School of Business. Some examples are shown below. (Other courses are eligible as substitutions but should be discussed in advance with the program director or academic advisor.)

Within the College of Architecture and Planning

- ARCH 5210 - Introduction to Architecture
- ARCH 5310 - Building Construction I
- ARCH 6249 - Sketching As Seeing
- ARCH 6450 - Pre-Design
- ARCH 6460 - Architecture Photography
- HIPR 6170 - Preservation Design Studio
- HIPR 6171 - Preservation Design Seminar
- LDAR 6722 - Contested Terrains
- URBN 6633 - Form and Formation of Cities
- URBN 6641 - Design Process/Practice
- URBN 6642 - Design Policy/Regulation
- URPL 5010 - Planning Methods
- URPL 5020 - Planning Law and Institutions
- URPL 5050 - Urban Development
- URPL 6355 - Urban Redevelopment Strategies
- URPL 6400 - Community Development
- URPL 6405 - Urban Housing
- URPL 6450 - Urban Economic Systems
- URPL 6455 - Real Estate Development and Finance
- URPL 6549 - Environmental Impact Assessment
- URPL 6625 - Sustainable Tourism Planning

Additionally, many special topics courses in each of the disciplines will be of interest and relevance to MSHP students.

Elsewhere across the Campus

- GEOG 5350 - Environment and Society in the American Past
- HIST 5228 - Western Art and Architecture
- HIST 5229 - Colorado Historic Places
- HIST 5231 - History in Museums
- HIST 5234 - Introduction to Public History
- HIST 5236 - Colorado Mining and Railroads
- HIST 5240 - National Parks History
- HIST 5242 - Oral History
- HIST 5243 - Public History Administration
- HIST 5244 - Interpretation of History in Museums: Exhibits and Education
- PUAD 5110 - Seminar in Nonprofit Management
- PUAD 5115 - Effective Grant Writing for Nonprofit and Public Sector Managers
- PUAD 5625 - Local Government Management
- PUAD 5626 - Local Government Politics and Policy

Total: 12-15 Hours

Capstone Work

Choose either 1. Professional Project and additional requirements, or 2. Thesis and additional requirements.

1. HIPR 6851 - Professional Project (3 semester hours)

Preceded by **one** of the following:

- Preservation Design Studio + Seminar (HIPR 6170-71)
or
- HIPR 6930 - Internship for 3 semester hours of credit
or
- Pre-approved travel education (may include programs to Italy, Turkey, Scandinavia, or domestic programs, typically Chicago or the rural West)

2. HIPR 6951 - Thesis

Preceded by LDAR 6949 - Research Tools, Strategies, Methods (3 semester hours)

Total: 6-9 hours

HISTORY MA

- ▶ Graduate School Rules apply to this program

The master of arts in history requires 36 semester hours (12 courses). Students applying for admission to the program should have some background in history, though not necessarily a BA in the subject. The department encourages applications from individuals of any age interested in resuming their education.

Graduate students in history develop skills in critical thinking, writing and independent research. Our program prepares students for a wide variety of professions, including teaching, government service, museum and archive management and historic preservation, as well as further degree work in history, law, librarianship and business. The department expects that students graduating with an MA in history will master the following general skills for their degrees:

- The ability to pursue independent historical research projects
- The ability to analyze historiographical arguments
- The ability to analyze primary documents and develop arguments from them
- The ability to create bibliographies using archival, library, and Internet resources
- The ability to write in a variety of formats, including historiographical essays, book reviews, and research papers

Students will also master knowledge of the basic historical content of both their major and minor fields, and an understanding of the historiographies and historical methods in their major and minor fields.

Admission Requirements

- In addition to the general admission requirements of the Graduate School, the Department of History requires an undergraduate GPA of at least 3.25.
- All applicants to the history program must take the GRE. GRE scores form a part of the department's consideration of students' qualifications.
- Applicants are required to submit a sample of written work, usually a term paper or project of similar length.
- All applications must include three letters of recommendation, preferably from college or university faculty.
- Applicants should address any gaps, weaknesses, or special circumstances in their academic records in the statement of purpose portion of the application. In special circumstances, the department may modify its admission standards.

APPLICATION DEADLINES

April 1	Fall admission
October 1	Spring admission

Admission decisions are made by a graduate committee composed of the graduate advisor and faculty representing fields in U.S., European, global, and public history.

Graduate School Policies

All history MA students are subject to Graduate School policies related to graduate study, as well as to all relevant university policies. These policies cover such topics as time limits on degree completion, changing degree programs, incomplete grades, and more. Further information on these policies can be found in the Graduate School section of this online catalog.

Transfer Credits

With approval from the graduate advisor and the appropriate faculty, students may transfer up to nine graduate-level credits accrued before enrollment in the CU Denver MA history degree program,

provided that they earned a grade of *B+* or better in these courses. Students must submit a syllabus for each course they wish to transfer, and faculty may require students to complete additional assignments to meet the expectations of the department. The department will not accept transfer of courses comparable to HIST 6013, Introduction to the Professional Study of History.

Grade Requirements

The history department requires that graduate students maintain a cumulative GPA of 3.0 and will not accept grades lower than *B-* (2.7) toward the completion of course work for the master's degree. Students who earn less than a *B-* in HIST 6013 must retake the class.

Residency Requirements

The history department requires a residency of at least one academic year for the degree.

Graduate Advising

Upon admission, students will sign a check list indicating their understanding and acceptance of the department's expectations. Early in their first semester, students should contact the history department graduate advisor to discuss their path through the program and to receive advice regarding the selection of major and minor fields.

Degree Tracking Responsibility

Although faculty will provide reasonable guidance, it is up to students to monitor their own progress through the program in consultation with the graduate advisor and their major advisor; this includes knowledge and understanding of application and graduate deadlines, degree requirements, comprehensive exam expectations and processes, thesis guidelines, etc.

Choosing Advisors and Fields of Study

All history MA candidates choose a major field and a minor field. Students will take courses in these fields (see Degree Requirements below) and will be tested in these fields (see Comprehensive Examinations). After consulting with the graduate advisor, students are responsible for securing two field advisors, one to oversee their progress in the major field, the other to oversee their minor field. All students should have chosen their fields and advisors by the end of the semester in which they have complete 12 credit hours. Students will also need a third advisor for the comprehensive examinations. This third advisor is typically in their major field and should always be consulted during preparation for the examinations.

Major Fields, Minor Fields, and Concentrations

The MA in history seeks to provide students with a balance of breadth and depth in the study of history. Major fields are broad areas of study within which students gain a general picture of historical processes. Concentrations provide focus for developing expertise within the major, either regionally or thematically. Minor fields provide a complementary or comparative area and must sit outside the major field. *[Please note that only the primary major field will be noted on the student's transcript; it will not include additional concentrations or minors.]*

Advisors and students together will work out Plans of Study, which indicate the courses students intend to take to meet their requirements, based on their selection of major and minor fields. *Students should*

make every effort to enroll in courses which best fit their major field, major concentration and minor field.

Students can choose to major in one of the following four fields:

- European History
- Global History
- Public History
- U.S. History

The department has core readings for the Public History and US History fields. Students will draw on these readings for their comprehensive exams. Students working in all fields will coordinate their readings with their major and minor advisors.

Major Field Concentrations

Students work with advisors to select one of the major field concentrations listed below. Concentrations provide thematic or regional focus to a broad geographical major (e.g. for the global history major, students could concentrate on trade, borders, imperialism, etc. or any of the areas of regional expertise of our faculty). Readings for the major field concentration are in addition to the core reading list.

Minor Fields

Students can define their minor field as a specialization within one of the four major fields or as topics from the list of concentrations.

Regional Concentrations/Minors	United States History Chronological Concentrations/Minors	Topical Concentrations/Minors (these can be regional or global and must be negotiated with students' field advisors)	
American West	Colonial and Federal	Colonialism and Imperialism Nation and State	
Britain	Nineteenth Century	Cultural and Social History	Politics
East Asia	Twentieth Century	Diplomatic History and Foreign Policy	Race and Ethnicity
Germany		Economic and Business History	Science, Medicine, and
Islamic World	Public History Concentrations	Gender, Women, and Sexuality	Technology
Latin America	Historic Preservation	Globalization	Urban History
South Asia	Museum Studies	Intellectual History	War and Revolution
Western Europe	State and Local History	Labor	

PUBLIC HISTORY MA MAJOR PROGRAM

Degree Requirements

All history MA students must have a major field and a minor field, and they must complete half of their course work at the 6000 level.

Required Introductory Course

- HIST 6013 - Introduction to the Professional Study of History

Total: 3 Hours

Major Field

Core course in Major Field (3-6 semester hours)

Public history and U.S. history major fields require core courses covering major approaches and themes. The core courses familiarize students with the field in a broad sense.

Research Seminars (3-6 semester hours)

Research seminars focus on students' development of an original, primary research paper. One 3-semester-hour research seminar is required of all students. A second research seminar is required for students not in public history; the second 3 semester hours can be taken within the major or minor field.

Major Electives (9-12 semester hours)

Electives are made up of courses in the major and concentration, including readings courses, that address specific field historiographies, and optional extended research credits. Students who choose to do a thesis may apply 6 thesis semester hours (HIST 6950) toward the major electives requirement.

Total: 18 Hours

Minor Field

Minor Electives

Electives are made up of courses in the minor field, including readings courses, which address specific field historiographies, or research seminars.

Total: 12 Semester Hours

Open Elective

Students may use the open elective to explore a course outside their major or minor or to do extra course work in one of their fields.

Total: 3 Hours

Degree Total: 36 Hours

INDEPENDENT STUDY AND/OR INTERNSHIP

Candidates may register for up to 6 hours of internships or independent study, only one of which may be at the 6000-level. Students will not be allowed to fulfill the research seminar requirement with an independent study or internship. Any independent study or internship at the 6000-level needs the permission of the graduate advisor. Students interested in pursuing an independent study or internship must find a faculty member willing to oversee their work, and they should expect the workload to equal or exceed that required for other courses at the same level.

- HIST 5840 - Independent Study: History
- HIST 6840 - Independent Study: HIST
- HIST 6939 - Internship

COMPREHENSIVE EXAMINATIONS

All history MA candidates must pass a comprehensive examination in the major and minor fields after the completion of course work and generally before embarking on a thesis, curriculum project or public history project. The comprehensive exam evaluates students' knowledge of their course work and their reading lists for their major, minor and concentration. The exam consists of a take-home written section, with broad essay questions in both the major and minor fields; this is followed by an oral exam with the student's faculty committee. In answering their exam questions, students are expected to construct arguments and to show mastery of the historiographies, narratives and historical content in their fields. The comprehensive exam is administered and evaluated by a committee of the major advisor, the minor advisor and an outside reader from the history faculty. Students should expect to read 80-100 books combined, as well as significant articles, in their major and minor fields

Master's Degree Extended Research Options

The MA program in history offers a set of courses in which students can develop extended research interests. Students must select an advisor and develop a proposal for a specific research agenda in the semester before beginning work on a project.

REQUIRED PUBLIC HISTORY THESIS (HIST 6950) OR PROJECT (HIST 6952)

Students majoring in public history must complete either a thesis (6 semester hours) or a project (usually 3 semester hours).

OPTIONAL THESIS FOR STUDENTS IN U.S., GLOBAL AND EUROPEAN HISTORY (HIST 6950)

Students majoring in U.S., global or European history can choose to write a thesis (6 semester hours in their major field).

OPTIONAL ADVANCED HISTORY CURRICULUM DEVELOPMENT (HIST 6951)

Students who undertake their master's program when they are already teachers or who are teachers-in-training can choose to construct curriculum projects relevant to their teaching practice. See the separate section below on "Opportunities for Teachers and Teachers-in-Training."

- HIST 6950 - Master's Thesis

- HIST 6951 - Masters Project: Advanced History Curriculum Development
- HIST 6952 - Master's Project: Public History

Thesis Requirements

Students writing theses are expected to develop an original research agenda resulting in an extended paper. Students work with their major field advisor, who will help guide them through the process of research and writing. Students will enroll for six credit hours in HIST 6950 to complete their theses over one or more semesters. Before registering for HIST 6950, students should have a thesis proposal and initial bibliography approved by their advisor.

A thesis is evaluated by a committee of three, including the major advisor and two other faculty members chosen by the student in consultation with the major advisor. Upon completion of the thesis, the student meets with the committee members, who ask questions about the research and conclusions which the student must defend. In most instances, the committee will require further revisions, sometimes major in scope, before the thesis is accepted and cleared for submission to the Graduate School in fulfillment of degree requirements.

Project Requirements

In lieu of a thesis, public history majors may choose to enroll in one semester of HIST 6952 to complete a public history project. Projects, which are usually conducted in collaboration with a public history organization, can entail creating an exhibit, organizing a museum or archival collection, conducting a preservation survey or similar activities. Students are required to prepare an analytical paper describing the process and results of their project.

Opportunities for Teachers and Teachers-in-Training

Curriculum Projects

Licensed teachers and teachers-in-training enrolled in the history graduate program may choose to complete a curriculum development project. Students arrange curriculum development projects with a sponsoring faculty member. Generally, students are expected to develop and submit a complete course curriculum plan for each 3-semester-hour project. Projects need to show evidence of familiarity with the relevant historiographies and primary sources. Students may apply the hours from HIST 6951 to either the major field or the minor field, depending on the project subjects. Curriculum plans must meet minimum criteria established by the history department in the document Advanced History Curriculum Development Projects.

- HIST 6951 - Masters Project: Advanced History Curriculum Development
(3 or 6 semester hours in their major field, or 3 semester hours in their major and possibly 3 semester hours in their minor, if a student elects to do a second project)

Secondary Teacher Licensure

Students interested in secondary teacher licensure should consult with the School of Education and Human Development. See the Urban Community Teacher Education Program for information.

HUMANITIES MH

- ▶ Graduate School Rules apply to this program

Requirements for Admission

In addition to the general requirements of the Graduate School governing acceptance to a master's degree program, applicants must submit the following:

- evidence of a bachelor's degree
- two official copies of transcripts from all community colleges, colleges, and universities attended
- overall GPA of at least 3.0 out of 4.0
- a writing sample
- three letters of recommendation (at least two from academic sources)
- appropriate undergraduate training or professional background, or indicators that supply evidence of ability to pursue the MH degree
- a typed statement specifying the goal of advanced study in the humanities expressed in clear, correct and effective English
- standardized test scores are not required, but will be considered if submitted

After meeting all other requirements for admission, applicants may be required to have an interview to discuss their interest in the program and their plans for study. For out-of-state applicants, an appropriate substitute for the interview may be determined by the director.

Provisional admission:

Applicants may be admitted as provisional-status graduate students if their complete record indicates a high probability of success.

Nondegree students:

Potential applicants may take CU Denver graduate-level courses as nondegree students (unclassified student with a bachelor's degree) if they:

1. Wish to strengthen their record in order to demonstrate that they could successfully complete graduate-level courses in the program
- or-
2. Wish to start coursework toward the program prior to completing their application, with the understanding that taking courses does not guarantee admission.

Up to 12 semester hours of CU Denver graduate-level work taken as a nondegree student may be accepted by the program once a student has been admitted to the program (the 12-hour limit also includes graduate work from another university). For further information on nondegree graduate student status, see the Information for Graduate Students section of this catalog. In the case of Cu

Denver graduate students transferring to the MH program, previous course work may be accepted as appropriate to the MH plan of study.

International Students:

International students must also meet CU Denver requirements for international admission. See the Information for International Students section of this catalog or call 303-315-2230 for further information.

Degree Requirements

The Master of Humanities (MH) program offers graduate-level interdisciplinary studies through a 36-credit-hour degree plan. Students may pursue a general MH degree or focus their studies and course work on one of two tracks: Philosophy and Theory OR Visual Studies. Each option is detailed below.

All courses credited toward the MH degree must be taken at CU Denver over a period not exceeding five years (a maximum of 12 graduate semester hours may be transferred from other institutions subject to the MH director's approval). At least a *B* average (3.0) must be maintained in all graduate-level course work for the degree. A grade of *C+* or below will not be counted toward the degree. Each student's program is supervised by an MH faculty advisor. All independent study, project and thesis contracts must be approved in advance by one of the program directors. A total of two independent study courses, two 4000-level undergraduate courses, and one internship may count toward the degree. Only one graduate-level online course (up to 3 hours) may be taken toward the degree. The rest must be 5000-level or above courses offered through various university departments. All students must pass an oral comprehensive exam on the project or thesis in order to graduate.

General Master of Humanities Degree

Students pursuing the general MH degree have the opportunity to fashion a course of study based on their individual interests and goals. Students complete three required core courses and, in consultation with a faculty advisor, choose two or three academic disciplines as areas of concentration. Students who select a thesis (6 semester hours) will submit a thesis proposal after completing 30 hours of course work. In the case of a project (3 semester hours), students will submit a project proposal after 33 hours. All students culminate with the completion of a final project or thesis and an oral exam defense of the final work.

GENERAL MH REQUIREMENTS

Three interdisciplinary seminars form the core course work for the MH degree:

- HUMN 5025 - Methods and Texts of the Humanities
(Must be taken during the first year of entrance into the program. **(Offered fall only.)**
Mid-Program Seminar, an interdisciplinary seminar which is approved for the student's program by the program director (note that the Mid-Program Seminar **must** have a HUMN prefix).

- HUMN 5924 - Directed Research and Reading in Interdisciplinary Humanities
A final seminar that provides background reading, theory and research approaches for students to develop a thesis or project; student must have completed at least 21-24 hours of course work and must register for the course via a schedule adjustment form with instructor approval. (**Offered spring only.**)
Total: 9 Hours

Electives

Additionally, students must complete a total of 21-24 semester hours comprising a coherent selection of courses from a variety of disciplines. All courses for the self-structured portion of the program must be selected with the approval of the MH program faculty advisor.

A total of two independent study courses and two 4000-level undergraduate courses taken when enrolled in the program may count toward the degree. All independent study contracts must be approved by the program director. The remaining course work must be 5000-level or above courses offered through various departments.

Students completing a project take 24 hours of electives, while thesis students complete 21 hours of electives.

Total: 21-24 Hours

Thesis or Project

A thesis (6 semester hours) or a final project (3 semester hours), which must include a substantial scholarly paper and may include a creative exercise involving at least two disciplines, must be completed at the end of the program. In order to proceed with a thesis or project, all students must submit to the program a proposal approved by their three faculty committee and the MH program director.

- HUMN 5950 - Master's Thesis
- HUMN 5960 - Master's Project

Total: 3-6 Hours

Oral Exam

An oral exam on the project or thesis before the committee of three faculty members must be passed in order to graduate.

General MH Degree Total: 36 Hours

OPTIONAL MH TRACKS

Students may also focus in one of the tracks in the Master of Humanities program: Philosophy and Theory or Visual Studies. Tracks allow students to concentrate their studies in a more specifically defined field of interest. In addition to the three HM core required courses, students must fulfill the minimum track requirements and must complete a total of 36 credit hours in order to complete the degree. These are detailed in the track descriptions that follow:

Philosophy and Theory Track

The philosophy and theory track in the Master of Humanities degree program offers students an interdisciplinary approach to studying philosophy, critical theory and related theories of criticism and analysis in various humanities disciplines. Students who pursue this concentration may focus their course work variously in philosophy, social theory, literary theory and criticism, cultural criticism, intellectual history and political theory. In this track, students develop analytic skills that allow them to integrate knowledge and modes of thinking that reflect the demands of critical inquiry.

By combining philosophical theory and critical thinking in one interdisciplinary track, students will be prepared to pursue advanced academic or professional degrees, secondary and higher education teaching, careers in art and literature, criticism, law, media and other careers with demand for critical thinking.

Beyond the required core HM courses (9 hours), a minimum of 21 credit hours in philosophy/theory-related work must be completed. This must include one required methodology course to be determined with the Master of Humanities advisor; 12-15 credit hours of philosophy/theory-related courses; and 3-6 hours of project or thesis work on a philosophy/theory-related topic.

TRACK REQUIREMENTS

Required Core MH Courses (See description above)

Total: 9 hours

Additional Requirements

- Philosophy/theory methods course (3 hours). Must be approved by the Master of Humanities Director or Associate Director
- Minimum of 12-15 credits of focused course work in philosophy/theory related courses (see suggested electives below)
- 3 credit project or 6 credit thesis on a visual studies topic, written in consultation with the required three person committee

Total: 21 hours

Suggested Electives

(The following is not a comprehensive list. See your advisor to discuss these and other elective courses for the track.)

- ANTH 6103 - Current Theory in Ethnography
- COMM 5025 - Philosophy of Communication
- COMM 5041 - Theories and Methods in Interpersonal Communication
- COMM 5111 - Theories of Leadership
- COMM 5605 - Rhetorical Theory for Technical Communication
- ENGL 5420 - Film Theory and Criticism
- ENGL 5735 - Philosophy and Literature
- HUMN 5013 - Philosophical Problems in the Social Sciences and the Humanities
- HUMN 5020 - Elements of Social Thought

- HUMN 5550 - Paris 1910: Art, Philosophy and Psychology
- HUMN 5650 - Reflections on Modernity
- HUMN 5720 - Sexuality, Gender and Their Visual Representation
- HUMN 5750 - Philosophical Psychology
- HUMN 5984 - Topics: Interdisciplinary Humanities
- PHIL 5000 - 19th Century Philosophy
- PHIL 5040 - Skepticism
- PHIL 5101 - Pragmatism: Classical American Philosophy
- PHIL 5220 - Aesthetics and the Philosophy of Art
- PHIL 5242 - Bioethics
- PHIL 5250 - Environmental Ethics
- PHIL 5260 - Philosophy of Law
- PHIL 5300 - Philosophy of Mind
- PHIL 5470 - Concepts of the Soul
- PHIL 5600 - Philosophy of Religion
- PHIL 5655 - Differing Concepts of God
- PHIL 5730 - Philosophy and Literature
- PHIL 5735 - Rationalism
- PHIL 5740 - Empiricism
- PHIL 5750 - Introduction to Phenomenology
- PHIL 5770 - Hegel
- PHIL 5780 - Heidegger
- PHIL 5790 - Nietzsche
- PHIL 5800 - Plato
- PHIL 5810 - Aristotle
- PHIL 5820 - Hume
- PHIL 5830 - Kant
- PHIL 5833 - Existentialism
- PHIL 5900 - John Dewey
- PHIL 5920 - Philosophy of Media and Technology
- PHIL 5933 - Philosophy of Eros
- PSCI 5005 - Political Theory After 9/11
- PSCI 5417 - Seminar: Practical Utopias
- PSCI 5457 - Seminar: American Political Thought
- RLST 5060 - Philosophy of Religion
- SOCY 5014 - Classical Sociological Theory
- WGST 5306 - Survey of Feminist Thought
- WGST 6010 - Methods and Theories of Feminism and Gender Studies

Visual Studies Track

The visual studies track in the Master of Humanities program offers students focused studies in disciplines that apply critical analysis to our visual world, such as art history, museum studies, film studies, new media studies and cultural studies. In a world whose work forces and creative citizenry are focused on the growth and use of visual technologies, visual literacy with sophisticated analytic skills is critical. Successful engagement with an image-driven and technological society necessitates an

understanding of the use and encoding of imagery. The visual studies track provides students with the critical tools for engaging with advanced history, concepts and philosophies especially centered on visual culture, art history, visual communication studies, film studies and new media studies.

Areas of application for such studies include museum and cultural institutions, curatorial and research positions, arts administration, non-profit community-based organizations, advertising, promotion and marketing. The program is likewise relevant for students interested in pursuing doctoral work in related fields. Upon graduation, students will be prepared to enter the job market immediately, or they may use this track as a steppingstone toward a Ph.D. or another advanced degree.

Beyond the required core MH courses (9 hours), a minimum of 21 credit hours in visual studies-related work must be completed. This includes one 3-credit methodology course in visual studies, and 12-15 credit hours of visual studies-related courses; and 3-6 hours of project or thesis work on a visual studies-related topic.

TRACK REQUIREMENTS

Required Core MH Courses (see descriptions above)

Total: 9 hours

Additional Requirements

- Visual studies methods course, chosen from the following list (substitutions must be approved by the Master of Humanities director or associate director). If not taken for the methods requirement, any of these may be taken as an elective.
 - ENGL 5420 - Film Theory and Criticism
 - FINE 5790 - Methods in Art History (Offered every fall)
 - HUMN 5660 - Visual Arts: Interpretations and Contexts (Offered every second or third semester)
- Minimum of 9-12 credits of focused course work in visual studies-related courses (see suggested electives below)
- 3 credit project or 6 credit thesis on a visual studies topic, written in consultation with the required three person committee

Total: 18 hours

Note: Students interested in pursuing doctoral work in related fields are strongly encouraged to develop foreign language competency in one or two of the following languages: French, German, Spanish, or a language related to the preferred area of study.

Suggested Electives

(The following is not a comprehensive list. See your advisor to discuss these and other elective courses for the track.)

- COMM 5230 - Nonverbal Communication
- COMM 5621 - Visual Communication
- COMM 5830 - Visual Principles in Technical Communication
- ENGL 5770 - Topics in English: Film and Literature

- ENGL 6001 - Critical Theory in Literature and Film
- FINE 4990 - Contemporary Art: 1960 to Present
- FINE 5524 - Topics in Art History
- FINE 5610 - Pre-Columbian Art
- FINE 5620 - American Art
- FINE 5632 - History of Digital Media
- FINE 5650 - Nineteenth-Century Art
- FINE 5660 - Twentieth-Century Art
- FINE 5670 - Greek and Roman Art
- FINE 5680 - Art of the Middle Ages
- FINE 5710 - Baroque and Rococo Art
- FINE 5730 - Arts of Japan
- FINE 5750 - Arts of China
- FINE 5770 - Art of India and Southeast Asia
- FINE 5990 - Contemporary Art:1960-Present
- HIST 5228 - Western Art and Architecture
- HIST 5231 - History in Museums
- HIST 5232 - Historic Preservation
- HUMN 5220 - Aesthetics and the Philosophy of Art
- HUMN 5550 - Paris 1910: Art, Philosophy and Psychology
- HUMN 5720 - Sexuality, Gender and Their Visual Representation
- PHIL 5220 - Aesthetics and the Philosophy of Art
- PHIL 5920 - Philosophy of Media and Technology

INFORMATION AND LEARNING TECHNOLOGIES MA

Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: www.ucdenver.edu/education

Faculty

Information about Information ILT faculty is available online at www.ucdenver.edu/education.

Master's Degree

The ILT master's program helps people design and use various resources and technologies for learning. Applying sound principles of instructional design, graduates can integrate a variety of learning technologies into their teaching including multimedia presentations, social-networking tools and tools for authoring, production, assessment and participation. ILT students learn to implement learning technologies in specific professional settings—either K–12 schools or adult learning settings such higher education or corporate environments.

Students choose tracks according to their professional goals:

- The instructional design track prepares students to work in adult learning settings such as business, higher education, health care, nonprofits or government.
- The eLearning track prepares educators to develop online courses and learning materials and to teach and facilitate learning in those eLearning environments.
- The K–12 teaching track helps teachers integrate technologies into schools and classrooms with a focus on improving teaching practices. Teachers may earn a state endorsement in instructional technology.

Technology Expectations

The ILT program uses computers and related technologies either as a focus or a tool for learning. Students are expected to use their campus e-mail account and check it frequently. In addition to on-campus facilities, ILT students need convenient access to Internet-connected computers off campus, either at their place of work or at home. In addition to textbooks, software purchases may be required or recommended for specific classes.

Program Requirements

Instructional Design and Adult Learning

Students complete 30 graduate semester hours of course work from a set of core courses and approved electives within and outside the ILT program. The plan of study is nationally accredited by NCATE and AECT and is consistent with standards for instructional designers. Students should consult the ILT program website or their advisor for complete program requirements.

eLearning Design and Implementation

Students may complete a 30 semester hours online master's degree with an eLearning emphasis. The focus of this master's track is on the planning, design, development, delivery, facilitation and evaluation of online learning resources and programs. Students should consult the ILT program website or their advisor for complete program requirements.

K–12 Teaching

Students may select a master's program and/or an endorsement program in instructional technology within the K-12 Teaching track. For the full Master of Arts degree, students complete 30 graduate semester hours of course work consisting of a core set of courses and approved electives. The plan of study is accredited by NCATE and AECT and is designed in line with standards of the Colorado Department of Education. Students may also complete an endorsement-only program in instructional technology consisting of 24 graduate semester hours.

Comprehensive Examination for all ILT Students

The comprehensive exam consists of a professional portfolio where in students demonstrate program competencies through work products and related accomplishments. The portfolio is created throughout the student's program and submitted for faculty review the final semester. For more information, see the ILT website.

INFORMATION SYSTEMS MS

Program Director: Jahangir Karimi

Telephone: 303-315-8430

E-mail: Jahangir.Karimi@ucdenver.edu

The Master of Science in Information Systems (MSIS) program at the Business School meets industry needs by providing specializations. The program prepares students for career paths in systems development and management services, enterprise application services, business intelligence, health information technology, information security audit and control, business consulting and development and consumer products and services. Whether students aim to be systems analysts or designers, software engineers, applications programmers, database administrators, Web developers, systems integrators, project managers, LAN administrators or application and technology consultants, the MSIS program provides the necessary knowledge and skills. This entire MS in Information Systems can be completed online.

The MSIS program offers a wide choice of courses. The course work consists of common body of knowledge courses plus 30 semester hours, which includes a choice of a specialization. Candidates for the MS degree are not required to take a comprehensive examination or to complete a thesis in the major field.

Information Systems Specializations

The eight specializations that accompany the MS in Information Systems are designed to provide the fundamental knowledge necessary for a career as an IS professional. The IS specializations provide students with a set of related courses necessary to acquire skills and expertise within a specific area in the development, management and use of information technology applications. Students are required to choose one specialization upon admission to the MSIS.

Accounting and Information Systems Audit and Control (AISAAC) Specialization

Recently, new regulatory environments have required companies to provide better documentation of their accounting and IT systems to improve the management and disclosure of their business processes for better financial and regulatory controls. Accounting and IT professionals have significant roles in audit and control activities, since they control the systems that monitor and report on finance, planning and operations. The courses within this specialization cover business-process management and financial controls; the emerging trends and practices in privacy and security; the strategies for integrating governance and compliance; and the IT organization's financial and business intelligence services. These courses will focus on how to leverage the existing IT infrastructure to establish quality in financial and internal audit processes and address the regulatory issues associated with reporting, consolidation and document/content management more effectively and completely.

Common Body of Knowledge (CBK): (12 hours)

Advisor will evaluate transcript for possible waivers in the CBK. Select 4 of the following:

- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information (Recommended)
- BUSN 6560 - Marketing Management
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management

Prerequisite: (3 hours)

Advisor will evaluate for possible waiver.

- ACCT 6030 - Financial Accounting

Information Systems AISAAC Course Requirements: (12 Hours)

- ISMG 6060 - Analysis, Modeling and Design
- ISMG 6080 - Database Management Systems
- ISMG 6180 - Information Systems Management and Strategy
- ISMG 6220 - Business Intelligence Systems

AISAAC Common Course Requirements: (12 hours)

- ISMG 6040 - Business Process Management
 - ISMG 6830 - IT Governance and Service Management
 - ACCT 6020 - Auditing Theory
 - ACCT 6510 - Accounting and Information Systems Processes and Controls
- OR**
- ISMG 6510 - Accounting and Information Systems Processes and Controls

AISAAC Electives: (6 hours)

Select 2 of the following courses:

- ACCT 6620 - Advanced Auditing
- ACCT 6470 - Internal Auditing
- ACCT 6340 - Financial Statement Analysis
- ACCT 6360 - Fraud Examination
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6450 - IT Project Management

Business Intelligence Specialization

Business Intelligence (BI) systems combine operational data with analytical tools to present complex and competitive information to planners and decision makers. The objective is to improve the timeliness and quality of inputs to the decision process. BI is used to understand the capabilities available in the firm;

the state-of-the-art, trends, and future directions in the markets, the technologies, and the regulatory environment in which the firm competes; and the actions of competitors and the implications of these actions. With this specialization, you get the necessary skills and knowledge in real-time data warehousing, data visualization, data mining, online analytical processing, customer relationships management, dashboards and scorecards, corporate performance management, expert and advanced intelligent systems, and hands-on experience with leading BI tools.

Common Body of Knowledge (CBK): (12 hours)

Advisor will evaluate transcript for possible waivers in the CBK. Select 4 of the following courses:

- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6560 - Marketing Management
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management

Business Intelligence Required Courses: (6 hours)

- ISMG 6080 - Database Management Systems
- ISMG 6220 - Business Intelligence Systems

Business Intelligence Electives: (18 hours)

Select 6 of the following courses:

- ISMG 6180 - Information Systems Management and Strategy
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6480 - Data Warehouse and Administration
- ISMG 6810 - Business Intelligence in Healthcare
- ISMG 6820 - Business Intelligence and Financial Modeling
- ISMG 6830 - IT Governance and Service Management
- BANA 6710 - Predictive Modeling with Big Data
- MKTG 6090 - Customer Relationship Management

Information Systems Elective: (3 hours)

Any course numbered 6000 or higher with an ISMG prefix or an internship (by petition). Students pursuing an additional specialization in GIS should fill this requirement with CVEN 5381, CVEN 5382, CVEN 5383, CVEN 5384, CVEN 5385, or CVEN 5386.

Free Elective: (3 hours)

Any course numbered 6800 or higher with BUSN prefix or any course numbered 6000 or higher with prefix of ACCT, BANA, CMDT, ENTP, FNCE, INTB, ISMG, MGMT, MKTG or RISK. *Students pursuing an additional specialization in GIS should fill this requirement with CVEN 5381, CVEN 5382, CVEN 5383, CVEN 5384, CVEN 5385, or CVEN 5386.

Enterprise Technology Management (ETM) Specialization

This specialization focuses on information technology as the prime driver of business strategy. It focuses on the strategic, technological, financial and organizational issues involved with the effective management of information technology within an enterprise. The courses in this specialization cover the emerging technologies and the evolving roles and importance of IT in modern organizations; IT-enabled organizational processes and knowledge management; methods to develop, acquire and implement information systems; implementing and managing complex IT projects; security and privacy issues associated with IT.

Common Body of Knowledge (CBK): (12 hours)

Advisor will evaluate transcript for possible waivers in the CBK. Select 4 of the following courses:

- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6560 - Marketing Management
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management

Enterprise Technology Management Required Courses: (6 hours)

- ISMG 6040 - Business Process Management
- ISMG 6180 - Information Systems Management and Strategy

Enterprise Technology Management Electives: (18 hours)

Select 6 of the following courses:

- ISMG 6080 - Database Management Systems
- ISMG 6120 - Internet and Mobile Technologies
- ISMG 6220 - Business Intelligence Systems
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6450 - IT Project Management
- ISMG 6460 - Emerging Technologies
- ISMG 6830 - IT Governance and Service Management

Information Systems Elective: (3 hours)

Any course numbered 6000 or higher with an ISMG prefix or an internship. *Students pursuing an additional specialization in GIS should fill this requirement with CVEN 5381, CVEN 5382, CVEN 5383, CVEN 5384, CVEN 5385, or CVEN 5386.

Free Elective: (3 hours)

Any course numbered 6800 or higher with BUSN prefix or any course numbered 6000 or higher with prefix of ACCT, BANA, CMDT, ENTP, FNCE, INTB, ISMG, MGMT, MKTG or RISK. *Students pursuing an

additional specialization in GIS should fill this requirement with CVEN 5381, CVEN 5382, CVEN 5383, CVEN 5384, CVEN 5385, or CVEN 5386.

eHealth and Healthcare Service Entrepreneurship Specialization

Recently, the health care industry has shifted its focus from using proprietary and expensive IT solutions to more innovative IT applications in electronic health records (EHR) and other health information technology (HIT) innovations for sharing information effectively to help manage health care crisis. The courses within this specialization cover the evolving roles and importance of IT in the health care industry; the innovative IT applications for delivering health care with reduced cost and increased quality; the management of health care using effective IT systems; and the security and privacy issues associated with health information. These courses will focus on how IT-enabled health care organizations can integrate information from various resources in order to deliver innovative IT solutions to meet unique requirements of health care industry.

Common Body of Knowledge (CBK) 12 hours

Advisor will evaluate transcript for possible waivers. Select 4 of the following courses:

- BUSN 6530 - Data Analysis for Managers
 - BUSN 6550 - Analyzing and Interpreting Accounting Information
 - BUSN 6560 - Marketing Management
 - BUSN 6610 - Information Systems Management and Strategy
- OR**
- ISMG 6180 - Information Systems Management and Strategy
 - BUSN 6630 - Management of Operations
 - BUSN 6640 - Financial Management

Information Technology Required Courses: (12 hours)

- ISMG 6060 - Analysis, Modeling and Design
- ISMG 6080 - Database Management Systems
- ISMG 6120 - Internet and Mobile Technologies
- ISMG 6320 - Innovative Health Information Technologies

Bio-innovation and Entrepreneurship Electives: (9 hours)

Select 3 of the following courses:

- ENTP 6801 - Building Biotechnology
- ENTP 6802 - Regulatory Environment of Life Science Innovation
- ENTP 6824 - Entrepreneurial Financial Management
- ENTP 6848 - Leadership in New Ventures

Health and Information Technology Electives: (9 hours)

Select 3 of the following courses:

- HLTH 6071 - Introduction To Health Information Technology
- HLTH 6072 - Management of Healthcare Information Technology
- ISMG 6020 - .Net Programming Fundamentals
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6460 - Emerging Technologies
- ISMG 6810 - Business Intelligence in Healthcare

Enterprise Risk Management (ERM) Specialization

Common Body of Knowledge (CBK): (12 hours)

Advisor will evaluate transcript for possible waivers in the CBK.

- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6620 - Applied Economics for Managers
- BUSN 6640 - Financial Management This course must be completed at CU Denver, waiver by petition only.

Enterprise Risk Management Required Courses: (9 hours)

- ISMG 6180 - Information Systems Management and Strategy
- FNCE 6809 - Principles of Risk and Insurance
- OR**
- RISK 6809 - Principles of Risk Management & Insurance
- FNCE 6909 - Corporate Risk Management
- OR**
- RISK 6909 - Corporate Risk Management

Enterprise Risk Management Electives: (15 hours)

Select 5 of the following courses:

- FNCE 6129 - Practical Enterprise Risk Management
- OR**
- RISK 6129 - Practical Enterprise Risk Management
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6450 - IT Project Management
- ISMG 6820 - Business Intelligence and Financial Modeling
- ISMG 6830 - IT Governance and Service Management
- FNCE 6509 - Global Risk Management
- OR**
- RISK 6509 - Global Risk Management

Information Systems/Risk Management Elective: (3 hours)

Any course numbered 6000 or higher with an ISMG prefix or FNCE/RISK prefix or an internship (by petition).

Free Elective: (3 hours)

Select any course numbered 6800 or higher with BUSN prefix or any course numbered 6000 or higher with a prefix of ACCT, BANA, CMDT, ENTP, FNCE, HLTH, INTB, ISMG, MGMT, MKTG, or RISK.

Health Information Technology Management

Recently, the healthcare industry has shifted its focus from using proprietary and expensive IT solutions to more innovative IT applications in Electronic Health Records (EHR) and other Health Information Technology (HIT) innovations for sharing information effectively to help manage healthcare crisis. The courses within this specialization covers the evolving roles and importance of IT in healthcare industry; the innovative IT applications for delivering healthcare with reduced cost and increased quality; the management of healthcare using effective IT systems; and the security and privacy issues associated with health information. These courses will focus on how IT enabled health care organizations can integrate information from various resources, in order to deliver innovative IT solutions to meet unique requirements of health care industry.

Common Body of Knowledge (CBK): (12 hours)

Advisor will evaluate transcript for possible waivers in the CBK. Select 4 of the following courses:

- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6560 - Marketing Management
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management

Health Information Technology Required Courses: (6 hours)

- ISMG 6080 - Database Management Systems
- ISMG 6060 - Analysis, Modeling and Design

Health Information Technology Electives: (18 hours)

Select 6 of the following courses:

- HLTH 6071 - Introduction To Health Information Technology
- HLTH 6072 - Management of Healthcare Information Technology
- ISMG 6220 - Business Intelligence Systems
- ISMG 6280 - Service Oriented Architecture
- ISMG 6320 - Innovative Health Information Technologies
- ISMG 6430 - Information Systems Security and Privacy
- ISMG 6810 - Business Intelligence in Healthcare

Information Systems Elective: (3 hours)

Any course numbered 6000 or higher with an ISMG prefix or an internship (by petition). *Students in the Health IT specialization may also select a course numbered 6000 or higher with a HLTH prefix with approved petition (restricted enrollment).

Free Elective: (3 hours)

Any course numbered 6800 or higher with BUSN prefix or any course numbered 6000 or higher with prefix of ACCT, BANA, CMDT, ENTP, FNCE, HLTH, INTB, ISMG, MGMT, MKTG, or RISK.

Technology Innovation and Entrepreneurship (TIE) Specialization**Common Body of Knowledge (CBK): (12 hours)**

Advisor will evaluate transcript for possible waivers in the CBK. Select 4 of the following courses:

- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6560 - Marketing Management
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management

Technology Innovation and Entrepreneurship Required Courses: (12 hours)

- ENTP 6842 - New Concept Development
- ENTP 6020 - The Business Plan
- ENTP 6021 - Corporate Entrepreneurship
- ISMG 6460 - Emerging Technologies

TIE/Information Systems Electives: (18 hours)

Select 6 courses from the two elective lists below for a total of 18 hours.

Select 2 or 3 of the following Entrepreneurship electives:

- ENTP 6620 - New Venture Operations and Project Management
- ENTP 6822 - Legal and Ethical Issues of Entrepreneurship
- ENTP 6824 - Entrepreneurial Financial Management
- ENTP 6826 - International Entrepreneurship
- ENTP 6848 - Leadership in New Ventures
- ENTP 6862 - Strategic Web Development

If 2 ENTP courses were selected above, select 4 of the following Information Systems electives; if 3 ENTP courses were selected above, select 3 of the following Information Systems electives:

- ISMG 6060 - Analysis, Modeling and Design
- ISMG 6080 - Database Management Systems

- ISMG 6120 - Internet and Mobile Technologies
- ISMG 6180 - Information Systems Management and Strategy
- ISMG 6220 - Business Intelligence Systems
- ISMG 6240 - Website Development Practice and Technologies
- ISMG 6450 - IT Project Management

Web and Mobile Computing Specialization

This specialization focuses on building and managing large systems using platforms for website development, mobile and wireless applications, and web services and service oriented architectures. The courses provide expertise in .Net programming, business process management, internet and mobile technologies, website development technologies, data warehousing and administration, and service oriented architecture. Project management coursework enables graduates to successfully handle highly, complex systems development projects in the business world.

Common Body of Knowledge (CBK): (12 hours)

Advisor will evaluate transcript for possible waivers in the CBK. Select 4 of the following courses:

- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6560 - Marketing Management
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management

Web and Mobile Computing Required Courses: (6 hours)

- ISMG 6060 - Analysis, Modeling and Design
- ISMG 6080 - Database Management Systems

Web and Mobile Computing Electives: (18 hours)

Select 6 of the following courses:

- ISMG 6020 - .Net Programming Fundamentals
- ISMG 6040 - Business Process Management
- ISMG 6120 - Internet and Mobile Technologies
- ISMG 6240 - Website Development Practice and Technologies
- ISMG 6280 - Service Oriented Architecture
- ISMG 6450 - IT Project Management
- ISMG 6480 - Data Warehouse and Administration

Information Systems Elective: (3 hours)

Any course numbered 6000 or higher with an ISMG prefix or an internship (by petition). *Students pursuing an additional specialization in GIS should fill this requirement with CVEN 5381, CVEN 5382, CVEN 5383, CVEN 5384, CVEN 5385, or CVEN 5386.

Free Elective: (3 hours)

Any course numbered 6800 or higher with BUSN prefix or any course numbered 6000 or higher with prefix of ACCT, BANA, CMDT, ENTP, FNCE, INTB, ISMG, MGMT, MKTG or RISK. *Students pursuing an additional specialization in GIS should fill this requirement with CVEN 5381, CVEN 5382, CVEN 5383, CVEN 5384, CVEN 5385, or CVEN 5386.

Geographic Information Systems (GIS) Option

The Geographic Information Systems option expands upon system development skills through the understanding of geographic information systems workflows, analysis processes, and data models. This option for the Business Intelligence, Enterprise Technology Management, OR Web and Mobile Computing specialization addresses how map representations can be abstracted in geo-databases to develop intelligent GIS systems. Learn how GIS can improve efficiencies, decision making, planning, geographic accountability, science-based plans and communication. The GIS option is offered in conjunction with the College of Engineering and Applied Science and a certificate in GIS is awarded by the College of Engineering and Applied Science.

Students must complete all requirements for the MS in Information Systems, as well as the requirements below.

- CVEN 5381 - Introduction to Geographic Information Systems (Required)
Select 3 of the following courses:
- CVEN 5382 - GIS Spatial Database Development
- CVEN 5383 - GIS Analysis -- Theory and Practice
- CVEN 5384 - GIS Management and Policies
- CVEN 5385 - GIS Relational Database Systems
- CVEN 5386 - GIS Laboratory

INTEGRATED SCIENCES MIS

- ▶ Graduate School Rules apply to this program

[Degree Requirements](#)

[Minimum Hours](#)

Students must complete a minimum of 30 semester-hours, of which 3-4 must be project hours (MINS 5960) or 4-6 must be thesis hours (MINS 5950). In accordance with Graduate School rules, a minimum of 24 semester-hours must be at the graduate level (5000+). Up to six (6) semester-hours may be taken at the 4000 level, provided the courses are outside of the disciplines of biology, chemistry, computer science, environmental sciences, geology, mathematics or physics.

[Breadth Requirement](#)

Students are required to take classes in a minimum of two (2) areas and a maximum of three (3) areas within the disciplines of biology, chemistry, computer science, environmental sciences, geology, mathematics or physics. With approval, students may take a maximum of six (6) semester-hours at the 4000+ level in one other school or college (any such classes at the 4000 level would count toward the six

semester-hour limit above). Classes in computer science (CSCI) are outside the College of Liberal Arts and Sciences, but are considered as part of the program; students may take a maximum of twelve (12) semester-hours in computer science at the graduate level (5000+). All classes counted toward the degree must be related to the student's stated program goal and receive prior approval for inclusion in the program of study by the program director. The student is responsible for insuring that all prerequisite requirements for the classes they take have been met, even if the prerequisite courses do not count toward the degree.

Depth Requirement

The student must designate a primary area within the disciplines of biology, chemistry, computer science, environmental sciences, geology, mathematics or physics. An interdisciplinary concentration (including but not limited to fields such as biochemistry, biophysics, or computational biology) may also be considered. The student must complete a minimum of nine semester hours in the chosen area of concentration.

Project or Thesis Requirement

All students must conduct independent research that results in either a project or a thesis, which is presented to their examination committee in written form and is subject to an oral defense.

Graduate Advisor and Examination Committee

All candidates for the MIS degree must select a faculty advisor and two other faculty members to serve with the advisor as the candidate's graduate examination committee. The committee members must have graduate standing at the University of Colorado Denver and be approved by the program director. The name of the faculty advisor must be submitted to the MIS program director no later than two semesters following full admission to the program.

Degree Total: 30 Hours

INTERNATIONAL BUSINESS MS

Program Director: Manuel G. Serapio, Jr.

Telephone: 303-315-8436

E-mail: Manuel.Serapio@ucdenver.edu

The Master of Science in International Business prepares individuals for careers in international business or with international organizations.

The MS program in International Business requires the completion of the following:

Prerequisites: (3 hours)

Select 1 of the following courses: BUSN 6520, BUSN 6550, BUSN 6560, or BUSN 6640. (*Note: BUSN 6550 is an enforced prerequisite for BUSN 6640*) Prerequisite choices should be based on course choices in the International Specialization and the International Core courses below. (*Advisors will evaluate transcripts for possible prerequisite waivers*)

Students who choose to take classes in the international specializations below that require prerequisites not previously met, may be required to take additional courses. Completion of prerequisite courses is in addition to the 30 hour MS in International Business. Meeting prerequisites is the responsibility of the student.

A. International Business Core: (6 hours)

- INTB 6000 - Introduction to International Business
- INTB 6200 - International Business Policy

B. International Functional Core: (6 hours)

Select one course from the International Marketing/Management Specialization list below **and** select one course from the International Finance/Accounting Specialization list below.

C. International Specialization: (9 hours)

Students must complete one of the specializations below: (two specializations may not be completed)

International Marketing/Management Specialization

Depending on course selection below, one or both of the following prerequisites may be required.

- BUSN 6520 - Leading Individuals and Teams
 - BUSN 6560 - Marketing Management
- Select 3 of the following courses:
- ENTP 6826 - International Entrepreneurship
 - ENTP 6827 - Global Action Projects for International Entrepreneurship
 - INTB 6020 - Cross-Cultural Management
 - INTB 6022 - International Business Negotiations
 - INTB 6024 - International Trade Finance and Management
 - INTB 6026 - International Marketing
 - INTB 6040 - Managing Global Talent
 - INTB 6060 - The Legal Aspects of International Business
 - INTB 6082 - Marketing in Emerging Markets
 - INTB 6094 - Marketing Issues in the Chinese Environment
 - INTB 6800 - Special Topics in International Business

International Finance/Accounting Specialization

Depending on course selection below, one or more of the following prerequisites may be required.

- ACCT 6140 - Tax Planning for Managers
- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6620 - Applied Economics for Managers

- BUSN 6640 - Financial Management

Select 3 of the following courses:

- ACCT 6430 - International Taxation
- ENTP 6827 - Global Action Projects for International Entrepreneurship
- INTB 6024 - International Trade Finance and Management
- INTB 6370 - International Accounting
- INTB 6372 - International Financial Management
- INTB 6411 - International Corporate Governance
- INTB 6460 - Emerging Market Finance

D. International Elective: (6 hours)

Select any course numbered 6000 or higher with an INTB prefix **or** any graduate level business course that is cross-listed with an INTB prefix. May also select from the following: ACCT 6430 International Taxation, ENTP 6826 International Entrepreneurship, or ENTP 6827 Global Action Projects for International Entrepreneurship. Travel studies offered by the Business School also apply.

E. Free Elective: (3 hours)

Complete any graduate business BUSN course numbered 6800 or higher **OR** any graduate business course numbered 6000 or higher with a prefix of ACCT, BANA, CMDT, ENTP, FNCE, INTB, ISMG, MGMT, MKTG or RISK. Note: students who require additional BUSN courses as prerequisites may petition to count one BUSN prerequisite course as a free elective. Please contact grad.advising@ucdenver.edu for the petition form.

Total 30 hours (plus any needed prerequisites)

LANDSCAPE ARCHITECTURE MLA

Prerequisites

Students are expected to have achieved a basic level of computer literacy and are required to have their own computer.

Program Requirements

The landscape architecture program offers professional and advanced professional graduate degree curricula leading to the degree master of landscape architecture (MLA).

- The first-professional degree program, requiring a six-semester sequence of course work totaling 90 semester hours, is fully accredited by the Landscape Architecture Accreditation Board (LAAB) and recognized by the Council of Educators in Landscape Architecture (CELA).
- The fully accredited advanced professional degree program is for qualified students who have already earned a first professional degree in landscape architecture (BLA) or related discipline. It

requires a minimum of 60 semester hours. Advanced standing will be based on prior academic accomplishment.

- Students completing a bachelor of Environmental Design degree at another institution may be given advanced standing in the three-year program. Advanced standing will be based on prior academic accomplishment.

Course Sequence (90-semester-hour)

(90-semester-hour MLA for students without a professional degree in landscape architecture or related professional field)

The curriculum consists of core and elective course work. Core courses are grouped into five components:

	<i>Semester hours</i>
Design Studios	36
History and Theory	12
Site Works	12
Media	9
Critical Practice	6
<i>Total core courses</i>	75
Electives	15
<i>Total courses</i>	90

Typical 90-semester-hour program of study in required courses for the first professional MLA degree

First Year

Fall

- LDAR 5501 - Landscape Architecture Design Studio 1
- LDAR 5521 - History of Landscape Architecture
- LDAR 5540 - Introduction to GIS
- LDAR 5572 - Landscape Ecology

Total: 15 Hours

Spring

- LDAR 5502 - Landscape Architecture Design Studio 2
- LDAR 5532 - Landform Manipulation
- LDAR 6630 - Site, Society and Environment
- LDAR 6641 - Computer Applications in Landscape Architecture

Total: 15 Hours

Second Year

Fall

- LDAR 5503 - Landscape Architecture Design Studio 3
- LDAR 6631 - Landscape Construction Materials and Methods
- LDAR 6670 - Plants in Design
- LDAR 6949 - Research Tools & Methods

Total: 15 Hours

Spring

- LDAR 6604 - Landscape Architecture Design Studio 4
 - LDAR 6605 - Landscape Architecture Design Studio 5
 - LDAR 6620 - Landscape Architecture Theory and Criticism
- Two electives. **Semester hours: 6**

Total: 15 Hours

Third Year

Fall

- LDAR 6606 - Landscape Architecture Design Studio 6
- Three Electives. **Semester hours: 9**

Total: 15 Hours

Spring

- LDAR 6607 - Landscape Architecture Design Studio 7
 - LDAR 6608 - Landscape Architecture Design Studio 8
 - LDAR 6750 - Professional Practice
- Two Electives. **Semester hours: 6**

Total: 15 Hours

Course Sequence (60-semester-hour)

(60-semester-hour MLA for students with a professional degree in landscape architecture or related disciplines)

This route typically requires 60 semester hours and two years of full-time study. The core curriculum consists of three groups:

	<i>Semester Hours</i>
Design	24
History and Theory	12-15
Media	3-6
<i>Electives</i>	9-18
<i>Total courses</i>	60

The department chair or associate chair will advise each student engaged in this program of study.

Thesis

The graduate thesis in landscape architecture provides an opportunity for students to conduct independent research and design investigations that demonstrate their capacity for rigorous original thinking. The thesis is not required for graduation and not all students are approved to write a thesis. Choosing to pursue a thesis project constitutes a significant commitment to the endeavor; the topic must be chosen with care and thoughtfully and critically developed. Topics can explore material that has been previously unstudied, reinterpret existing material in a new light, or engage research and design practices in ways that strengthen and define the final project. For all theses, the research and products must meet the highest standards of academic excellence and contribute significantly to the discipline and/or profession.

Pursuing a thesis requires students to enroll in a three-course sequence for a maximum total of 12 semester hours. Students are required to formulate their research proposals two full semesters prior to their enrollment for the 6-semester-hour thesis, typically taken in lieu of the final studio. To proceed through the sequence, students must have completed and passed the research tools and methods class (LDAR 6940) and have secured departmental approval of the thesis proposal. The completion of the thesis is dependent on acceptance of the student's work by the faculty member acting as the thesis chair and by the committee. For work to be accepted it must meet the standards established by the University of Colorado Denver for graduate thesis projects.

Dual Degree Options

Students may enroll in a dual degree program with architecture (MArch) or urban and regional planning (MURP), or with business (MBA).

They also may be selected through an application process to participate in a dual degree MLA with Tongji University in Shanghai, China. Read more about this program on the department website.

MANAGEMENT AND ORGANIZATION MS

Program Director: Kenneth L. Bettenhausen

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The MS Management program prepares students for significant managerial responsibilities in the private and public sectors. Core course requirements provide students with an advanced understanding of how to manage interpersonal dynamics, effectively design organizations, implement planned change and organizational transformations and develop human resources. Students build on this foundation with any four electives in MGMT, ENTP or INTB, or with the courses that comprise one of 10 career-focused specializations.

The specializations include: business strategy, change and innovation, enterprise technology management, entrepreneurship and innovation, global management, leadership, managing human resources, managing for sustainability, sports and entertainment management and strategic management. These specializations will help students master the tools and knowledge to be successful in each focused competency.

The MS management and organization degree requirements are met by the following:

Management MS

Management and Organization Core: (12 hours)

- BUSN 6520 - Leading Individuals and Teams
- MGMT 6320 - Leading Organizational Change
- MGMT 6360 - Designing Effective Organizations
- MGMT 6380 - Managing People for Competitive Advantage

Management and Organization Electives or Specialization: (12 hours)

A student may select any four MGMT, INTB or ENTP elective courses or complete one of the Management specializations, all of which include four courses.

Specialization Options:

- Business Strategy
- Change and Innovation

- Enterprise Technology Management
- Entrepreneurship and Innovation
- Global Management
- Leadership
- Managing Human Resources
- Managing for Sustainability
- Sports and Entertainment Management
- Strategic Management

Business Strategy

Complete four of the following courses:

- ENTP 6021 - Corporate Entrepreneurship
 - ENTP 6826 - International Entrepreneurship
 - **OR**
 - INTB 6200 - International Business Policy
 - INTB 6022 - International Business Negotiations
 - **OR** INTB 6800 International Business Consulting
 - MGMT 6730 - Human Resources Management: Performance Management
 - MGMT 6803 - Visionary Leadership
 - MKTG 6010 - Marketing Strategy, Evaluation and Development
- Your selection may include up to 2 of the following FNCE/RISK courses:
- FNCE 6310 - Financial Decisions and Policies
 - FNCE 6340 - Business Firm Valuation
 - FNCE 6410 - Real Options and Decisions Under Uncertainty
 - FNCE 6411 - International Corporate Governance
 - FNCE 6420 - Mergers and Acquisitions
 - FNCE 6480 - Financial Modeling
 - FNCE 6909 - Corporate Risk Management
 - **OR**
 - RISK 6909 - Corporate Risk Management

Change and Innovation

Select four of the following:

- MGMT 6730 - Human Resources Management: Performance Management
 - MGMT 6803 - Visionary Leadership
 - MGMT 6804 - Bargaining and Negotiation
 - MGMT 6808 - Leadership Development
- May include up to 2 of the following courses:
- MGMT 6821 - Managing for Sustainability
 - MGMT 6823 - The Sustainable Business Opportunity
 - BUSN 6830 - Business and the Natural Environment

Enterprise Technology Management

Required course (may be completed as a Free Elective):

- ISMG 6180 - Information Systems Management and Strategy
- Select 3 of the following:
- ISMG 6120 - Internet and Mobile Technologies
 - ISMG 6430 - Information Systems Security and Privacy
 - ISMG 6450 - IT Project Management
 - ISMG 6460 - Emerging Technologies
 - ISMG 6830 - IT Governance and Service Management

Entrepreneurship and Innovation

Select 2 of the following courses:

- ENTP 6642 - Exploring Social Entrepreneurship
- ENTP 6807 - Small Business Marketing and Personal Branding
- ENTP 6824 - Entrepreneurial Financial Management
- ENTP 6826 - International Entrepreneurship
- ENTP 6834 - Entrepreneurial Marketing
- ENTP 6842 - New Concept Development
- ENTP 6620 - New Venture Operations and Project Management
- ENTP 6644 - Social Entrepreneurship in the Developing World
- ENTP 6800 - Special Topics in Entrepreneurship
- ENTP 6822 - Legal and Ethical Issues of Entrepreneurship
- ENTP 6838 - Real Estate for the Entrepreneur
- ENTP 6848 - Leadership in New Ventures

Select 1 of the following courses:

- ENTP 6020 - The Business Plan
- ENTP 6021 - Corporate Entrepreneurship

Select 1 of the following courses:

- ENTP 6000 level course of your choice (excluding ENTP 6801 and 6802)
- MGMT 6000 level course of your choice

Global Management

Required Courses:

- INTB 6000 - Introduction to International Business
 - INTB 6020 - Cross-Cultural Management
 - INTB 6040 - Managing Global Talent
- OR**
- MGMT 6040 - Managing Global Talent

Select 1 of the following:

Any INTB 6*** course or Travel Study Program (see advisor for details)

Leadership

Select 4 of the following:

- MGMT 6803 - Visionary Leadership
 - MGMT 6804 - Bargaining and Negotiation
 - MGMT 6808 - Leadership Development
- May include up to 2 of the following courses:
- MGMT 6821 - Managing for Sustainability
 - MGMT 6822 - Business Ethics and Corporate Social Responsibility
 - MGMT 6823 - The Sustainable Business Opportunity
 - MGMT 6824 - Sustainable Business/CSR Field Study
 - BANA 6650 - Project Management
 - ENTP 6848 - Leadership in New Ventures
 - INTB 6000 - Introduction to International Business

Managing Human Resources

Prerequisites (completion of BUSN 6530 is in addition to the 30 hour MS MGMT)

- BUSN 6530 - Data Analysis for Managers
- MGMT 6380 - Managing People for Competitive Advantage Complete in core

Select 4 of the following:

- BUSN 6540 - Legal and Ethical Environment of Business
- MGMT 6040 - Managing Global Talent **OR**
- INTB 6040 - Managing Global Talent
- MGMT 6710 - Human Resources Management: Staffing
- MGMT 6720 - Human Resources Management: Training
- MGMT 6730 - Human Resources Management: Performance Management
- MGMT 6740 - Human Resources Management: Compensation
- MGMT 6750 - HRM: Investing in People: HR Analytics
- MGMT 6808 - Leadership Development

Managing for Sustainability

- ACCT 6285 - Accounting and Finance for Sustainability
 - BUSN 6870 - Global Climate Change
- OR**
- INTB 6870 - Global Climate Change
 - ENTP 6642 - Exploring Social Entrepreneurship
 - ENTP 6644 - Social Entrepreneurship in the Developing World
 - ENTP 6800 - Special Topics in Entrepreneurship
 - ENTP 6808 - Practicum in Sustainable Business Research
 - MGMT 6821 - Managing for Sustainability
 - MGMT 6822 - Business Ethics and Corporate Social Responsibility
 - MGMT 6823 - The Sustainable Business Opportunity

- MGMT 6824 - Sustainable Business/CSR Field Study
- BUSN 6830 - Business and the Natural Environment
*Independent Study/Internships by petition only
- MGMT 6840 - Independent Study
- MGMT 5939 - Internship
- OR**
- MKTG 5939 - Internship
- MKTG 6830 - Marketing & Global Sustainability
- BANA 6730 - Supply Chain Management

Sports and Entertainment Management

Select 4 of the following:

- MGMT 6830 - Sports and Entertainment Management
- MGMT 6832 - Law and Negotiation in the Sports/ Entertainment Industries
- BUSN 6860 - Finance in the Sports Entertainment Industries
- MKTG 6820 - Sports & Entertainment Marketing
- MGMT 6834 - London Calling: Global Sports and Entertainment Management
- MGMT 5939 - Internship (by petition only)

Strategic Management

Prerequisites (completion of prerequisites is in addition to the 30 hour MS MGMT):

- BUSN 6530 - Data Analysis for Managers
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6630 - Management of Operations

Required courses:

- BUSN 6560 - Marketing Management
- BUSN 6640 - Financial Management
- BUSN 6710 - Strategic Management
- MGMT 6803 - Visionary Leadership
- OR**
- MGMT 6808 - Leadership Development

Free Electives: (6 hours)

Any course numbered 6800 or higher with BUSN prefix or any course numbered 6000 or higher with prefix of ACCT, BANA, CMDT, ENTP, FNCE, INTB, ISMG, MGMT, MKTG or RISK. Enterprise Technology Management (ETM) specialization students must take at least one MGMT, ENTP or INTB course as a free elective. ETM specialization students must also complete the required course of ISMG 6180 as a free elective.

MARKETING MS

Program Director: David Forlani
Telephone: 303-315-8420
E-mail: David.Forlani@ucdenver.edu

The MS in Marketing degree is designed to provide the skill sets necessary for you to succeed in middle (e.g., brand manager, advertising account executive) and upper level (e.g., CMO) positions in marketing and for those who interface with an organization's markets (e.g., customer service or operations).

Your MS in Marketing degree from the University of Colorado Denver consists of 30 hours:

- 21 semester hours of marketing core courses
- 9 semester hours of graduate electives

We highly recommend that one of the electives include a marketing-related internship, especially for those making a career change or without prior experience in marketing. You must complete the following 21 hours of marketing core courses and then you can choose from two paths to complete the remaining 9 hours. You can select the "build your own MS marketing degree" option or one of the seven specializations.

Required Courses: (21 hours)

- BUSN 6560 - Marketing Management
- MKTG 6010 - Marketing Strategy, Evaluation and Development
- MKTG 6020 - International Marketing
- MKTG 6040 - Services Marketing
- MKTG 6050 - Marketing Research
- MKTG 6060 - Buyer Behavior
- MKTG 6200 - Marketing Dashboard Metrics

Marketing Electives or Specialization: (9 hours)

Students may select any course numbered 6000 or higher with a **MKTG** prefix **OR** students may choose from the marketing specializations.

The specializations are areas of focus that will appeal to those who have specific interests or are looking to apply their marketing acumen in particular contexts (e.g., interface with engineering or work in a multinational or nonprofit environment). A 3-semester-hour internship can be substituted for an elective in any area of specialization with the approval of the marketing program director.

Brand Management and Marketing Communications

Are you interested in a career in advertising, promotions or public relations? How about furthering your career in marketing management? Advertising, promotion and public relations managers are creative, highly-motivated individuals who are flexible yet can meet a deadline. They need good verbal and written communication skills and the ability to work well with people. Similar talents are needed by

those involved with brand management. This task is central to all marketers, especially those involved with perceptual positioning and the deliverance of positions in a target market (e.g., those working in any phase of market communication and R&D) The U.S. Bureau of Labor Statistics reports that, because of the high visibility of these positions, these managers are often prime candidates for top C-level positions. The job outlook remains promising but competition will be keen, and the best opportunities will go to those with an MS in marketing or an MS marketing /MBA dual degree. (Don't take our word for it, see <http://www.bls.gov/oco/ocos020.htm>).

Required:

- MKTG 6070 - Integrated Marketing Communications and Brand Identity

Select 2 of the following courses:

- MKTG 6030 - Sales and Sales Force Management
- MKTG 6090 - Customer Relationship Management
- MKTG 6091 - Strategic Product Marketing
- MKTG 6092 - Internet Marketing
- MKTG 6820 - Sports & Entertainment Marketing
- MKTG 6830 - Marketing & Global Sustainability
- ENTP 6862 - Strategic Web Development

Global Marketing

One of the growing themes of the 21st century economy is the growth of world trade. There is continuing demand for individuals who understand the how to conduct marketing across many different international environments as well as rapidly growing areas such as China and the emerging markets. This specialization prepares you to effectively compete and succeed in this environment.

Required Courses

- MKTG 6094 - Marketing Issues in the Chinese Environment
- MKTG 6830 - Marketing & Global Sustainability

Select 1 of the following courses:

- ENTP 6826 - International Entrepreneurship
- INTB 6020 - Cross-Cultural Management
- INTB 6022 - International Business Negotiations
- INTB 6080 - Global Competition
- INTB 6200 - International Business Policy
- MKTG 6080 - Marketing in Emerging Markets
- MKTG 6700 - Marketing Travel Study

High-Tech/Entrepreneurial Marketing

The American economy was built on a spirit of innovation, hard work and entrepreneurship, and this is surely going to be the path that assures continued American dominance in the technology and business development fields. Most smart innovators know that, in addition to the financial and managerial aspects of a business, it is the marketing function that often makes the difference between success and failure. Whether your interest is in corporate intrapreneurship and the development of high-technology oriented innovations or individual entrepreneurship and the development of a small business with minimal funds, knowing how to create and implement appropriate marketing strategies is fundamental to achieving your goals. This specialization allows you to focus on the type of new business creation path that best suits your aspirations while greatly enhancing your endeavors probability of success. If you aspire to be the next Bill Gates, this is a "must take" degree path for you.

Required Course (Select 1):

- MKTG 6091 - Strategic Product Marketing
 - ENTP 6842 - New Concept Development
- Selec 2 of the following courses:
- MKTG 6030 - Sales and Sales Force Management
 - MKTG 6070 - Integrated Marketing Communications and Brand Identity
 - MKTG 6092 - Internet Marketing
 - ENTP 6020 - The Business Plan
 - ENTP 6021 - Corporate Entrepreneurship
 - ENTP 6801 - Building Biotechnology
 - ENTP 6826 - International Entrepreneurship

Internet Marketing

Are you interested in a degree that blends Web development and application strategies with marketing? This, then, is the specialization for you. This specialization covers all aspects of Internet marketing including the functions associated with Web sites for marketing communication and customer support, one-to-one communication to many different receiving devices, marketing via social networks, consumer behavior insights based on offline and online data combination, inventory optimization through CRM-SCM integration, and a focus on ROI and associated performance metrics. With Internet marketing poised to take off globally, especially in developing countries where consumers may not have access to the latest products in local stores, this is indeed the wave of the future.

Required:

- MKTG 6092 - Internet Marketing
- Select 2 of the following courses:
- MKTG 6070 - Integrated Marketing Communications and Brand Identity
 - MKTG 6090 - Customer Relationship Management
 - ISMG 6080 - Database Management Systems
 - ISMG 6240 - Website Development Practice and Technologies
 - ISMG 6430 - Information Systems Security and Privacy
 - ENTP 6862 - Strategic Web Development
 - BANA 6710 - Predictive Modeling with Big Data

Marketing for Sustainability

The world has changed. More than ever, companies around the globe need to introduce smart, sustainable brands to lead the way into the future. The strong core of MS marketing courses will give you the skills to become an effective marketing manager, while the specialized set of sustainability courses will give you the knowledge to work toward a better tomorrow. The sustainability courses will focus on the triad of economic, environmental and social sustainable development.

Required:

- MKTG 6830 - Marketing & Global Sustainability

Select 2 of the following courses:

- BUSN 6830 - Business and the Natural Environment
- MGMT 6821 - Managing for Sustainability
- MGMT 6822 - Business Ethics and Corporate Social Responsibility
- ACCT 6285 - Accounting and Finance for Sustainability

Marketing Research

Marketing and survey researchers gather information about what people think, measure customer satisfaction and repurchase intentions, help companies decide what goods and services to offer and at what price, and detect up-and-coming trends. Marketing researchers need good quantitative skills, strong analytical skills and a good understanding of marketing and buyer behavior. Many of our alumni got their starts in marketing research positions. According to the U.S. Bureau of Labor Statistics, employment is expected to grow faster than average with the best job opportunities for those with an MS marketing degree (Don't just take our word for it; check out <http://www.bls.gov/oco/ocos013.htm>).

Required:

- BUSN 6530 - Data Analysis for Managers

Select 2 of the following:

- BANA 6710 - Predictive Modeling with Big Data
- BANA 6720 - Simulation Modeling
- ISMG 6080 - Database Management Systems
- ISMG 6220 - Business Intelligence Systems
- ISMG 6480 - Data Warehouse and Administration
- MKTG 6070 - Integrated Marketing Communications and Brand Identity
- MKTG 6090 - Customer Relationship Management

Sports and Entertainment Marketing

The sports business industry is one of the largest and fastest growing in the United States. Add to that the burgeoning music, film, theater, television, cable and other entertainment industries and you've got virtually limitless choices. Every one of those industries needs good marketers. The strong core of marketing courses in the MS marketing program will give you the skills you need to hit the ground

running with the specialized courses to teach you how to tailor your skills to the unique needs of the sports and entertainment industries.

Required:

- MKTG 6820 - Sports & Entertainment Marketing

Select 2 of the following courses:

- MGMT 6832 - Law and Negotiation in the Sports/ Entertainment Industries
- MGMT 6830 - Sports and Entertainment Management
- MGMT 6834 - London Calling: Global Sports and Entertainment Management
- MKTG 6070 - Integrated Marketing Communications and Brand Identity

MASTER IN BUSINESS ADMINISTRATION FOR EXECUTIVES, MBA

Program Director: W. Scott Guthrie

Telephone: 303-623-1888 or 1-800-228-5778

The executive MBA program provides executive-level students with a broad, rigorous 21-month academic experience leading to the master of business administration degree. The program is designed for persons who hold managerial positions in the private and public sectors. It builds upon the knowledge and experience of these executives with a sophisticated, challenging curriculum that can be pursued simultaneously without career interruption.

The executive MBA program emphasizes strategic leadership; the organization in a complex, international environment; and the applied tools of management. Courses are taught through a variety of methods. Case studies, lectures and computer simulation are combined with research projects and other teaching methods to provide students with tools useful in their present positions and applicable to more advanced responsibilities as they progress in their management careers.

Each new session of the executive MBA program begins the last week of August. Classes meet for a full day, once a week, on alternating Fridays and Saturdays, making it possible for those who live outside the Denver area to participate.

Two courses are taken simultaneously throughout the program. The program is supplemented by an intensive orientation at the beginning and a two-day seminar at the conclusion of the first academic year. A second-year seminar is held at an international business center outside of North America.

MATHEMATICS EDUCATION MASTER OF SCIENCE IN EDUCATION MSED

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Web site: www.ucdenver.edu/education

Faculty

Information about faculty is available online at www.ucdenver.edu/education

The MSED in mathematics education program incorporates courses in mathematical content, pedagogy and research. This approach will improve the student's knowledge of mathematics and enhance their ability to teach effectively at the K-12 level. The program arises from collaboration between the School of Education and Human Development (SEHD) and the Department of Mathematical and Statistical Sciences in the College of Liberal Arts and Sciences (CLAS). It interweaves both mathematics and education leading to a truly interdisciplinary program.

The MSED in mathematics education has concentrations in the following areas:

- Elementary Mathematics Education
- Secondary Mathematics Education

The MSED core courses provide a sound basis in mathematics education, curriculum theory, teacher inquiry, appreciation of diversity and philosophical foundations.

MSED Core

- FNDS 5050 - Critical Issues in American Education
- MTED 5030 - Theories Of Mathematics Learning
- MTED 5040 - Mathematics Teaching - Theory and Practice
- MTED 5050 - Critique Of Mathematics Education Research
- MTED 5060 - Developmental Pathways In Students' Mathematical Thinking
- RSEM 5080 - Research In Schools

Total: 24 Hours

Elementary Mathematics

Required Mathematics Core - 12 credits total. Choose four in consultation with faculty advisor.

- MCKE 5000 - Algebraic Patterns and Functions I
- MCKE 5002 - Algebraic Patterns and Functions II
- MCKE 5004 - Statistics and Probability
- MCKE 5005 - Geometry
- MCKE 5006 - Mathematics of Change
- MCKE 5007 - Discrete Math--Counting the Possibilities
- MCKE 5008 - Discovery and Use of the History of Math
- MCKE 5009 - Math Modeling--Using and Applying Math

- RSEM 5100 - Basic Statistics
Students may select additional core courses from 5000-level MATH courses. Courses selected must have prior faculty advisor approval.

Required Research:

- SECE 5950 - Master's Thesis

MSEd students who want to enrich their experience with research in mathematical topics and advanced mathematical thought may take additional courses designed for Research Experience for Teachers (RET)

- MATH 5016 - RM-MSMSP Research Experience for Teachers - Math Cohort
- MATH 5017 - Topics in Mathematics for Teachers

Total: 36 Hours

Secondary Mathematics

Required Mathematics Core - 12 credits total. Choose four in consultation with faculty advisor:

- MATH 5010 - History of Mathematics
- MATH 5110 - Theory of Numbers
- MATH 5310 - Probability
- MATH 5830 - Applied Statistics
- MCKE 5140 - Introduction to Modern Algebra
- MCKE 5210 - Higher Geometry I
- MCKE 5310 - Introduction to Real Analysis I
- MCKE 5408 - Applied Graph Theory
- MCKE 5409 - Applied Combinatorics
- RSEM 5100 - Basic Statistics

Required Research:

- SECE 5950 - Master's Thesis

MSEd students who want to enrich their experience with research in mathematical topics and advanced mathematical thought may take additional courses designed for Research Experience for Teachers (RET):

- MATH 5016 - RM-MSMSP Research Experience for Teachers - Math Cohort
- MATH 5017 - Topics in Mathematics for Teachers

Total: 36 Hours

MBA/MS IN BIOENGINEERING

The Business School and the Department of Bioengineering offer this degree option for students admitted into the Bioengineering MS program and the MBA program. This dual degree is an excellent opportunity for students who are planning a career in industry or as an entrepreneur. Bioengineering students including those who create medical devices, often launch their own venture upon graduation or thereafter. Business skills, especially in the area of marketing, legal environments, finance and

operations are critical to enhance the probability of venture success. A dual degree also opens up new doors with regard to career choice, either in business or in one's core field.

MECHANICAL ENGINEERING MENG

► Graduate School Rules apply to this program

The master's of engineering (MEng) is an interdisciplinary degree program designed to meet the needs of those practicing engineers who wish to follow an integrated program of studies in engineering and allied subjects related to the individual student's professional work. Students can combine advanced engineering course work with graduate-level non-engineering courses such as business administration, environmental sciences, social sciences, biological sciences or public administration.

Prospective students are required to present a well-defined objective in order to be admitted to the program. In consultation with faculty advisors, an academic program is developed to meet this objective.

An advisory committee will be appointed for each student by the department. The advisory committee that guides the student is responsible for approving the individual's degree program and admission to candidacy, and approves the student's written report and the awarding of the degree.

The requirements for admission are the same as those for the MS degree awarded through the College of Engineering and Applied Science. A minimum of 30 semester hours of academic work are required for the MEng degree. At least 15 of these hours must be at the 5000 level or above in mechanical engineering. A maximum of 12 semester hours may be taken outside of engineering. In addition to course work, a written report is required in the MEng program as a final project (3 semester hours). The report may be related to the student's professional work. The report will be of the same general quality as that required for the master of science thesis and must be defended orally. It may be based on work done for credit under independent study.

MECHANICAL ENGINEERING MS

► Graduate School Rules apply to this program

Program Plans

For the master of science (MS) degree in mechanical engineering, students may choose between three plans with each plan totaling 30 semester hours.

- Plan I - Students following Plan I (thesis option) take 24 semester hours of formal course work plus 6 semester hours of thesis work.
- Plan II - Students following Plan II (project option) take 27 semester hours of formal course work plus a 3 semester hour final project requiring a report.
- Plan III - Students following Plan III (10-course option) take 30 semester hours of formal course work plus a final comprehensive exam.

Students following Plan I or Plan II must submit a proposal to their examination committee prior to the semester in which they register for their thesis or project semester hours, and the examination committee must approve the proposal for the thesis or project.

Program Options

Students in each of the plans may choose one of three options. In the first two options, the student may choose to specialize in either thermal science or mechanics. The third option is the general mechanical engineering option.

- The **thermal science option** requires 12 semester hours of course work in analytical methods, numerical methods, fluid mechanics and thermodynamics. The student then selects 9 semester hours of course work in approved electives from a selection of thermal science electives.
- The **mechanics option** requires 12 semester hours of course work in analytical methods, numerical methods, elasticity and dynamics. The student then selects 9 semester hours of course work in approved electives from a selection of mechanics electives.
- The **general mechanical engineering option** requires the student to take 18 semester hours of required course work in analytical methods, numerical methods, fluid mechanics, thermodynamics, elasticity and dynamics.

After meeting the course requirements for any of the three options the student may select any Mechanical Engineering graduate course to complete the 30 hour credit requirement. The student may also take courses approved by an advisor outside of the Mechanical Engineering Department.

MEDIA FORENSICS EMPHASIS, RECORDING ARTS MS

► Graduate School Rules apply to this program. Contact leah.haloin@ucdenver.edu for information on how to access these rules.

Program Overview

The master of science in recording arts, media forensics emphasis, prepares students from various backgrounds for work in the field of forensic audio, video, and image analysis, utilizing the state-of-the-art methods and technology necessary to fight crime in the digital age. Housed in the National Center for Media Forensics (NCMF), this program is unique in providing a hybrid format (online and onsite) graduate education in forensic multimedia analysis.

Students from all disciplines (media production, electrical engineering, general forensics, etc.) are encouraged to apply, as this program enhances scientific inquiry while guiding students through a two-year cohort curriculum. The hybrid delivery format affords students the option to work full-time while completing most of the program in an online classroom with additional onsite study at the NCMF and its partner institutions. Classes are comprised of online self-guided lectures, interactive learning, discussion boards and reading responses, as well as scheduled video conferencing. Onsite coursework provides students with hands-on and practical experiences which augment and enrich the curriculum.

Additionally, experiential learning activities include visits to regional crime labs and scientific conferences to understand the application of forensic media technology and laboratory procedures.

Courses lead students through three areas of study: foundational knowledge, core analyses and capstone experiences, which fully prepare students for research in forensic science and expert witness testimony. Digital media evidence acquisition through computer forensics applications is emphasized in an environment that fosters creativity and individual skills. The research thesis on a topic of the student's choosing is conducted under the advisement of the director and associate director of the NCMF with input from forensic professionals from around the world. The thesis is a topic of exploration throughout the program and serves to enhance a graduate's area of specialty as they prepare for work in private forensic practice, corporate research and development, academic research and teaching, or crime labs at the local, state or federal level.

Note: The application process, requirements and deadlines for the master of science in recording arts, media forensics emphasis (MSRA-MF), differ from those listed for the MSRA recording arts program.

[MSRA Media Forensics Application Components](#)

Application Components – Domestic Students

Domestic Student Application Deadline: **March 15th**

Program accepts students in **Fall** only.

Graduate Application for Admission

- Complete the online Graduate Application for Admission: https://soa.prod.cu.edu/degreeprog/applyDEGREEPROG_CUDEN/login.action.
- Indicate program of study: On the online application, the *Career* field should be selected as **Graduate**, *Campus* as **Downtown Campus**, *Program* as **College of Arts & Media GRAD**, and *Field of Study* as **Recording Arts or Media Forensics**. All of these designations must be accurately included; otherwise application materials will not be received by the MSRA-MF Admissions Committee.
- Contact the administrative manager via email at leah.haloin@ucdenver.edu with notification of intent to apply. This is recommended so that application materials can be more closely tracked by the program.

Application Fee

- Domestic applicant non-refundable application fee of \$50.00.
- Fee must be paid in U.S. dollars, via the online Graduate Application for Admission.

Official Graduate Record Examination (GRE) General Test Scores

- Applicants to the MSRA-MF degree program must submit scores from the GRE test dated within the past five years. The "General Test" offered by the Educational Testing Service assists in evaluating applicants to the degree program. It evaluates the analytical writing, verbal and quantitative reasoning skills of candidates. This examination is offered internationally by the Educational Testing Service on a continuous schedule. No minimum score is required for

admission, as each student's score will be evaluated as a portion of the complete application. This examination is not intended to exclude any applicant from the degree program.

- Scores must be received by the application deadline; therefore students should plan accordingly when scheduling their testing dates. Late GRE scores are not accepted, and these applications will not be reviewed.
- The institution code for the University of Colorado Denver where scores should be sent is: **4875**. There is no department code for the program.
- Information on the GRE can be obtained at www.ets.org/gre.

Transcripts

- Applicants must have two (2) official academic transcripts from each college or university attended sent directly from the issuing institution to:
Leah Haloin

MSRA-MF Graduate Admissions Committee
National Center for Media Forensics
Campus Box 154
P.O. Box 173364
Denver, CO 80217-3364
- While credits from one institution may appear on the transcript of a second institution, transcripts must be submitted from each institution, regardless of the length of attendance, and whether or not courses were completed.
- "Official transcripts" exhibit the official seal and signature of the registrar.
- Transcripts that are marked "student copy" or "unofficial" are not accepted as official and cannot be used in the admission decision.

Cover Letter

- Applicants must submit a typed, double-spaced cover letter detailing the following:
 - Professional/educational background
 - Reason for wanting to participate in program
 - Research interests
- The cover letter should be uploaded in the online application.

Resume

- Students are required to submit a typed resume as it relates to the field of forensic science. The resume must include educational background, work experience and relevant skills. Students are also welcome to include any published works, scholarly/creative work, exhibitions, awards, or other relevant achievements.
- The resume should be chronological, beginning with educational background, and progressing to employment history. Please refrain from "functional" resumes, or those that simply summarize qualities or competencies.

- The resume should be uploaded in the online application.

Three (3) Letters of Recommendation

- References: The required three letters of recommendation should be written by responsible persons who can attest to the applicant's academic and professional accomplishments.
- The names and e-mail addresses of all three reference providers must be included in the online Graduate Application for Admission. Once the full application package is submitted, an e-mail message will automatically be generated to the three reference providers with a secure link to the online recommendation form and letter upload tool. Applicants are advised to submit the online application early enough to allow each reference provider time to submit the letter prior to the deadline.
- All three (3) reference providers must complete their letters of recommendation by doing both of the following:
 - Online Recommendation Form: This is an online multiple-choice form where the recommender will be asked to evaluate certain indicators of success for the applicant.
 - Personal Letter: This should be a formal, narrative letter uploaded by the recommender via the online recommendation form.
- Letters of recommendation must be submitted online directly by each of the reference providers; letters cannot be submitted by the applicant.
- Incomplete letters of recommendation will not be considered, and the application will not be reviewed.

Two (2) Technical Writing Samples

- The applicant must provide two (2) samples of material authored by the applicant that demonstrate scientific/non-fictional writing skills. These could be undergraduate research papers, published or unpublished articles, grant proposals, prepared reports or affidavits, etc.
- Each writing sample should be 1,000 words or more.
- The technical writing samples should be uploaded in your online application.

Applications which do not include all of the requirements listed above, or that include partial components, are considered incomplete and will not be reviewed.

Application Components – International Students

(Note: International applicants are encouraged to visit the Office of International Admissions website at <http://www.ucdenver.edu/academics/InternationalPrograms/OIA/admissions/Pages/default.aspx>.)

International Student Application Deadline: **March 15th**
Program accepts students in **Fall** only.

International Student Graduate Application for Admission

- Complete the online application:
<http://www.ucdenver.edu/academics/InternationalPrograms/OIA/admissions/Pages/default.aspx>.
- Indicate program of study: On the online application, the *Career* field should be selected as **Graduate**, *Campus* as **Downtown Campus**, *Program* as **College of Arts & Media GRAD**, and *Field of Study* as **Recording Arts or Media Forensics**. All of these designations must be accurately included; otherwise application materials will not be received by the MSRA-MF Admissions Committee.
- Contact the administrative manager via e-mail at leah.haloin@ucdenver.edu with notification of intent to apply. This is recommended so that application materials can be more closely tracked by the program.

Application Fee

- International applicant non-refundable application fee of \$75.00.
- Fee must be paid in U.S. dollars via the online International Student Graduate Application for Admission.

Official Graduate Record Examination (GRE) General Test Scores

- Applicants to the MSRA-MF degree program must submit scores from the GRE test dated within the past five years. The "General Test" offered by the Educational Testing Service assists in evaluating applicants to the degree program. It evaluates the analytical writing, verbal and quantitative reasoning skills of candidates. This examination is offered internationally by the Educational Testing Service on a continuous schedule. No minimum score is required for admission, as each student's score will be evaluated as a portion of the complete application. This examination is not intended to exclude any applicant from the degree program.
- Scores must be received by the application deadline; therefore students should plan accordingly when scheduling their testing dates. Late GRE scores are not accepted, and these applications will not be reviewed.
- The institution code for the University of Colorado Denver where scores should be sent is: **4875**. There is no department code for the program.
- Information on the GRE can be obtained at www.ets.org/gre.

English Language Requirement

- International Applicants to the MSRA-MF degree program whose first language is not English are required to provide evidence of English language competency. The language requirement can be satisfied as follows:
 - Submitting TOEFL scores (minimum score of 71 IBT or 525 PBT.)
 - Submitting IELTS scores (minimum 6.0.)
 - Graduation from a CU Denver approved English language program with a recommendation letter from the program's director.
 - Completion of a bachelor's degree or higher from an accredited institution in the United States.

- Following the Graduate School Policy, the English language requirement is waived for international students who have graduated from a foreign institution where the language of instruction for their bachelor's degree was English. These students are required to provide a letter from their home institution verifying this information.
- International students who have earned a bachelor's degree in the United States or completed at least one year of study in a master's program at an accredited institution in the United States may demonstrate English language competency via submission of their transcripts from the U.S. institution.
- Evidence of English language competency should be uploaded in the online application.
- Please contact the Office of International Admissions for more information.

Transcripts

- Applicants must have two (2) official academic transcripts from each college or university attended.
- Foreign language transcripts must be translated word by word into English by a certified translator. The translator should not attempt to convert grades into the American system.
- Transcripts should be uploaded in the online application.
- Please contact the Office of International Admissions for more information.

Cover Letter

- Applicants must submit a typed, double-spaced cover letter detailing the following:
 - Professional/educational background
 - Reason for wanting to participate in program
 - Research interests
- The cover letter should be uploaded in the online application.

Resume

- Students are required to submit a typed resume as it relates to the field of forensic science. The resume must include educational background, work experience and relevant skills. Students are also welcome to include any published works, scholarly/creative work, exhibitions, awards, or other relevant achievements.
- The resume should be chronological, beginning with educational background and progressing to employment history. Please refrain from "functional" resumes, or those that simply summarize qualities or competencies.
- The resume should be uploaded in the online application.

Three (3) Letters of Recommendation

- References: The required three letters of recommendation should be written by responsible persons who can attest to the applicant's academic and professional accomplishments.

- The names and e-mail addresses of all three reference providers must be included in the online International Student Graduate Application for Admission. Once the full application package is submitted, an e-mail message will automatically be generated to the three reference providers with a secure link to the online recommendation form and letter upload tool. Applicants are advised to submit the online application early enough to allow each reference provider time to submit the letter prior to the deadline.
- All three (3) reference providers must complete their letters of recommendation by doing both of the following:
 - Online Recommendation Form: This is an online multiple-choice form where the recommender will be asked to evaluate certain indicators of success for the applicant.
 - Personal Letter: This should be a formal, narrative letter uploaded by the recommender via the online recommendation form.
- Letters of recommendation must be submitted online directly by each of the reference providers; letters cannot be submitted by the applicant.
- Incomplete letters of recommendation will not be considered, and the application will not be reviewed.

Two (2) Technical Writing Samples

- The applicant must provide two (2) samples of material authored by the applicant that demonstrate scientific/non-fictional writing skills. These could be undergraduate research papers, published or unpublished articles, grant proposals, prepared reports or affidavits, etc.
- Each writing sample must be 1,000 words or more, and provided in English.
- The technical writing samples should be uploaded in the online application.

Applications which do not include all of the requirements listed above, or that include partial components, are considered incomplete and will not be reviewed.

International Students must submit all application components in English, where applicable.

Transcripts, cover letter, recommendation letters, and evidence of English language proficiency should be uploaded in the online application. Should the technological resources be unavailable, the applicant should send the documents to the University using the following mailing address:

University of Colorado Denver
 International Admissions
 Campus Box A005/141
 P.O. Box 173364
 Denver, CO 80217-3364
 USA

Curriculum

The master of science in recording arts, media forensics emphasis, comprises 33 semester hours: 29 hours are required courses and 4 hours are thesis. All courses must be completed with a grade of B- (2.7) or better and students must maintain at least a 3.0 cumulative GPA. Grades of C+ (2.3) or lower, or

a cumulative GPA below 3.0, will result in the student's dismissal from the program. Students are admitted to the program in the Fall as a cohort, and must follow the curriculum in sequence.

Curriculum and application requirements for the master of science in recording arts, media forensics emphasis, are subject to change. Refer to the National Center for Media Forensics website at <http://www.ucdenver.edu/academics/colleges/CAM/Centers/ncmf/Pages/ncmf.aspx> for up-to-date information regarding curriculum and application requirements.

Program Sequence

Fall - Year 1

MSRA 5014 - Research Practices in Media Forensics

MSRA 5124 - Forensic Science and Litigation

Spring - Year 1

MSRA 5054 - Experiential Lab

MSRA 5114 - Foundations in Media Forensics

MSRA 5144 - MATLAB Foundations

Summer - Year 1

MSRA 5134 - Computer Forensics

MSRA 5244 - Mobile Phone Forensics

Fall - Year 2

MSRA 5054 - Experiential Lab

MSRA 5214 - Forensic Audio Analysis

MSRA 5254 - MATLAB for Forensic Audio Analysis

Spring - Year 2

MSRA 5054 - Experiential Lab

MSRA 5224 - Forensic Video and Image Analysis

MSRA 5264 - MATLAB for Forensic Video and Image Analysis

Summer - Year 2

MSRA 5314 - Report Writing and Court Testimony

Summer - Year 2 (or later)

MSRA 6954 - Research Thesis in Media Forensics

Total: 33 Hours

NEW DIRECTIONS, POLITICAL SCIENCE MA

► Graduate School Rules apply to this program.

Director: Kathryn Cheever

Telephone: 303-556-5950

E-mail: kathryn.cheever@ucdenver.edu

An alternative track of the political science MA program (Plan II) is offered off-campus through the Center for New Directions in Politics and Public Policy at Chaparral in Douglas County and on the Fort Lewis College campus in Durango. This politics and public policy track presents courses in an intensive weekend format. The emphasis on politics and the policy-making process relates to the ability of leaders to mobilize resources and achieve constituent goals consistent with the public interest. In this context, politics entails communication, and effective politics requires communication. In short, this emphasis on political awareness seeks to help participants utilize the political process as the "art of making what appears to be impossible, possible."

Degree Requirements

Students must complete a total of 30 graduate credit hours to complete the MA degree.

Core Courses

- PSCI 5014 - Seminar: American Politics
- PSCI 5085 - Comparative Public Policy
- PSCI 5324 - Politics, Public Policy and Leadership
- PSCI 5457 - Seminar: American Political Thought
- PSCI 5468 - Research Methods in Political Science

Total: 15 Hours

Electives

In addition to the required core courses, students must take 15 credit hours of political science electives.

[*Note:* Previously earned graduate credit may be submitted for approval to satisfy up to nine hours of the supportive elective requirement. The elective courses offered may change from time to time based on needs, interests and other factors.]

Below are examples of electives taken by New Directions students:

- PSCI 5007 - Beyond Political Correctness
- PSCI 5009 - Politics of the Budgetary Process

- PSCI 5024 - State Politics: Focus on Colorado
- PSCI 5084 - Local Government and Administration
- PSCI 5274 - Conflict Resolution and Public Consent Building
- PSCI 5354 - Seminar: Environmental Politics and Policy
- PSCI 5374 - Public Priorities for the 21st Century
- PSCI 5414 - Organizational Change Agents
- PSCI 5644 - Ethical Responsibilities of Leaders

Total: 15 Hours

Project Requirement

All students are required to complete a 3-credit master's project under the direction of a faculty advisor. Registration is done using the Special Processing form, rather than online.

- PSCI 5960 - Master's Project

Total: 3 Hours

Major Total: 33 Hours

Common Course Outcomes

In addition to clearly stated subject outcomes, all courses will have a common set of outcomes related to the following areas which are considered critical in developing leadership capacities necessary to address the changing public priorities for the 21st century:

- Creativity and innovation
- Changing public priorities
- Political and social diversity
- Ethical accountability
- Deductive and inductive reasoning
- Applied use of appropriate technology
- Strategic planning and decision making
- Resolution of conflicts and public consent building
- Individual, organizational and cultural communication effectiveness

Location

All of the courses for the Denver-based programs are currently offered at the University Center at Chaparral, 20 miles south of downtown Denver. The University Center is located next to the Chaparral

High School, just north of Lincoln Avenue at Chambers Road in Douglas County (15653 Brookstone Drive).

Courses for the Durango-based program are currently offered on the campus of Fort Lewis College

Course Format

All courses are offered in a weekend format that consists of two or three weekend sessions for a given course spread out over a two-month period. Three-weekend classes are held from 9:00 am to 4:00 pm on both Saturday and Sunday of each weekend session. Two-weekend classes meet from 5:00 until 9:00 p.m. on Friday evening and from 8:30 a.m. until 4:30 p.m. on Saturday and Sunday. In most cases, a student will complete all of the two or three weekend sessions of one course before starting the weekend sessions for the next course. There is typically a 2-3 week break between semesters.

Certificate Program

The Center for New Directions MA program offers a certificate program as well, allowing students to focus their studies in a particular direction and to note that particular focus on their transcript. Students do not have to be seeking a full Master's degree to earn a certificate of completion through the certificate program.

For more information on the graduate certificate in Community Leadership, [click here](#).

POLITICAL SCIENCE MA

- ▶ Graduate School Rules apply to this program

The political science department offers a master of arts (MA) degree in political science with an emphasis on building academic and practical skills in key areas of the discipline. Research and teaching in the department centers on the major fields of American politics, comparative politics, international relations, political theory and public policy; however, the department also offers more specialized training in human rights, legal studies, gender politics, race and ethnic politics, European studies, indigenous politics and urban politics. Students pursuing the MA have the option of completing the traditional track or an alternative track centered on the study on politics, public policy and leadership. Students completing the alternative "politics and public policy" track take most courses in weekend, off-campus locations. Students completing either track have gone on to PhD programs across the country and work in a variety of areas, including; state and local elected office, government service, directors of community-based organizations and nongovernmental organizations, legislative analysts, UN affiliates, lobbyists, teachers, media analysis and political consulting.

Requirements for Admission

Students applying for admission to the MA program in political science should present at least 18 semester hours of previous academic work in political science, at least 9 hours of which should be at the

upper-division or graduate level. The department may make exceptions to these requirements in unusual cases (for instance, if course work in related fields such as psychology, economics and history compensates for the deficiencies in political science). Applicants should present an undergraduate GPA of at least 3.0 to be considered; however, the department typically admits students with a GPA of 3.2 or higher. In their applications, students must submit transcripts and letters of recommendation (from academic sources) as specified by the Graduate School. In addition, applicants must submit a statement of academic objectives and an academic writing sample. Standardized test scores are not required of applicants, but will be considered if submitted.

In order to take graduate courses in political science, students must either be admitted to the MA program or secure permission as a nondegree student. Nondegree students may take up to 12 semester hours of graduate course work; however, they must first secure permission from the department graduate advisor to enroll in all graduate course work.

Degree Requirements

In addition to the requirements for admission and details of the program spelled out here, graduate students in political science must also abide by department rules and procedures specified in the Graduate School Policies and Procedures. Failure to meet these policies may result in a student being dropped from the program.

Under the MA program in political science, two degree plans are available:

- Plan I requires the completion of nine graduate courses (27 semester hours) and a 6-credit thesis
- Plan II requires the completion of ten graduate courses (30 semester hours) and a 3-credit project.

Course work in both plans completed under the traditional track offered on the Downtown Campus must include:

- PSCI 5000. The State of the Discipline

Additionally, at least one graduate seminar is required in each of the following areas: American politics, comparative politics or international relations, political theory and research methods.

Students will complete between 12 and 15 elective semester hours, depending on whether they are working under Plan I or II, which may be fulfilled through graduate course work in political science, related disciplines, independent study or internships. Ultimately, the total combination of independent study, graduate course work in related disciplines and internship cannot exceed 9 semester hours. With either plan, students are required to complete a minimum of 16 semester hours with the political science department at the University of Colorado Denver, and maintain a minimum *B* (3.0) overall GPA or better. Any course in which a student receives a final grade lower than B- cannot be counted toward the total credits for the Master's degree. Students who are on probation must meet regularly with the graduate advisor and must secure approval from the advisor for all course work while on probation.

Plan II is available both under the traditional MA track offered on the Denver campus, as well as through an alternative track offered off-campus through the Center for New Directions in Politics and Public

Policy. For details about this off-campus track in politics and public policy, see New Directions, MA in Political Science .

The Political Science graduate program offers two transcribed certificates, allowing students to focus their studies in a particular direction and to note that particular focus on their transcript.

For more information on the graduate certificate in Democracy and Social Movements, [click here](#).

For more information on the graduate certificate in Community Leadership, [click here](#)

PUBLIC ADMINISTRATION MPA

The master of public administration (MPA) is designed to provide graduate professional education for students who wish to prepare themselves for careers in public management or policy, in nonprofit organizations or in private corporations that interface with the other sectors. The program also offers to those already in public service an opportunity to pursue additional education as a means of furthering their careers.

Program Director: Christine Martell, PhD

Faculty

Professors:

Lloyd Burton, PhD, University of California, Berkeley

Angela Gover, PhD, University of Maryland

Mary Guy, PhD, University of South Carolina

Richard Stillman, PhD, Syracuse University Paul Stretesky, PhD, Florida State University

Paul Teske, PhD, Princeton University

Associate Professors:

Brian Gerber, PhD, Stony Brook University

Tanya Heikkila, PhD University of Arizona

Christine Martell, PhD, Indiana University

Callie Rennison, PhD, University of Houston

Jessica Sowa, PhD, Syracuse University

Allan Wallis, PhD, City University Graduate Center

Brian Gerber, PhD, Stony Brook University

Chris Weible, PhD, University of California, Davis

Assistant Professors:

Todd Ely, PhD, New York University
Danielle Varda, PhD, University of Colorado Denver
Benoy Jacob, PhD, University of Illinois at Chicago

MPA, Western Slope Director:

Fred Rainguet, PhD, University of Colorado

Wirth Chair in Sustainable Development:

Mark Safty, JD, University of Montana

Research Professor:

Stephen Block, PhD, University of Colorado

Assistant Research Professor:

Kelly Hupfeld, JD, Northwestern University

Clinical Professors:

Malcolm Goggin, PhD, Stanford University

Denise Scheberle, PhD, Colorado State University

Professor Emeritus:

John Buechner, PhD, University of Michigan

Dean Emerita:

Kathleen Beatty, PhD, Washington State University

Senior Instructor:

Robyn Mobbs, PhD, University of Colorado Denver

MPA AND MCJ—General Information**Admission Requirements**

1. Applicants must have a baccalaureate degree from a college or university of accredited standing, with a minimum GPA of 3.0. Two sets of official transcripts are required from all higher education institutions attended.
2. Applicants must provide three recommendations from qualified references. Recommendations may be from professors, employers and/or others acquainted with the prospective student's professional and/or academic work.
3. Applicants are required to take the GRE, the GMAT or the LSAT unless they meet the requirements for waiver. Standard graduate admission test scores are normally waived when the candidate already has a graduate degree in another field from an accredited institution. Other applicants may have test scores waived if they have an undergraduate GPA of 3.0 or better *and* they have *significant* post-baccalaureate professional employment in management or policymaking positions for a minimum of 10 years or the equivalent.

4. A current resume highlighting professional accomplishments and community involvement, a short essay stating educational and career goals, a declaration of program form, and an application fee are also required.
5. International applicants may have different admission requirements and should check with the Office of International Affairs. In particular, international students whose first language is not English are required to take the TOEFL or IELTS. A composite score of 6.5 on the IELTS, or a composite score of 80 on the TOEFL, with accompanying minimum IELTS or TOEFL subscore results, is required.

All application material and test scores should be sent to SPA, University of Colorado Denver, Campus Box 142, P.O. Box 173364, Denver, CO 80217-3364.

SPA will review applications as soon as they are complete. Master-level applicants generally receive notification of their admission status three weeks after all materials have been received in the office. The preferred deadlines listed below allow students to receive best consideration for scholarships, financial aid and course selection. *Students who do not meet the preferred deadline may still submit application materials until approximately one month before the start of classes and will be considered on a space-available basis.*

<i>Semester</i>	<i>Preferred Application Deadline</i>	<i>Final Deadline*</i>
Fall	March 15	August 1
Spring	October 15	December 1
Summer	March 15	May 1

*Final deadline does not apply to international students who should contact the Office of International Affairs for deadline information.

Provisional Admission

In exceptional cases, a student who does not otherwise meet the minimum requirements for admission may be admitted on provisional status if elements of their application suggest they may be able to succeed in the program. Students admitted on a provisional basis take two core courses in their first semester, and must earn at least a B in each course. MPA students may select two of the following:

- PUAD 5001
- 5003 or
- 5004

MCI students may select two of the following:

- CRJU 5001
- 5002 or
- 5005

Based on their performance in these courses, a formal decision will be made concerning their admission into the program. Provisionally-admitted students may not take any other courses at SPA until they have been formally admitted to the program.

Nondegree Admissions

Students may register as nondegree students while developing their application packet. However, students are discouraged from taking multiple courses as a nondegree student if they hope to pursue a degree. No more than nine semester hours taken in the program as a nondegree student may be applied to the master's degree programs, with approval of an advisor. Nondegree student application forms are available in the Office of Admissions or online.

Transfer of Credit to SPA

Up to 9 semester hours of appropriate graduate work from an accredited college or university may transfer, if such credit was not applied to a completed degree.

Limitation of Course Load

The normal course load for a full-time student is 9 semester hours. A student who is employed full time may not carry more than 9 hours unless an excess load has been approved in advance by the faculty advisor.

Financial Assistance

Students in the master's degree programs are eligible for several types of financial assistance. Educational loans require application to the CU Denver Office of Financial Aid and completion of the FAFSA. A number of students secure internships or other part-time positions with local, state and federal agencies in the Denver metropolitan area. Scholarship assistance is available on a limited basis.

The school receives announcements for fellowships from various government organizations and actively seeks additional funding for student support in the form of internship positions and research assistantships.

Persons interested in applying for financial assistance should inquire in the SPA office. The deadline for current students is March 15 for the fall term. Prospective students seeking scholarship funds should have complete scholarship applications on file at the SPA office by the preferred application deadline for the semester they are requesting funds.

The Internship Program

An internship for the MPA and MCI programs is required for students who have not had significant public, nonprofit or private-sector experience. The purpose of the internship is to continue the linkage between theory and practice that is the philosophical basis of SPA. The internships generally involve part-time work. A maximum of three semester hours will be awarded for internship service. Great care is taken by the SPA to ensure that the internship experience meets the intellectual needs of the student. Placements have included the Governor's Office, Colorado General Assembly, Denver Mayor's Office,

City of Denver, Denver Police Department, Boulder Crime Lab, Western Governor's Association, the National Conference of State Legislatures, the Colorado Department of Public Health and Environment and the Denver Center for the Performing Arts.

Time Limit for Master's Degree

Master's degree students must complete all course work and degree requirements within six years of registration in their first course.

MPA Degree Requirements

The minimum requirements for the basic MPA degree are outlined below. Occasionally, changes are made; students may graduate under the requirements that were in effect when they were admitted.

1. Graduate Course Work

All students must complete a minimum of 36 semester hours of graduate course work, with a cumulative GPA of B (3.0) or better. No more than 6 semester hours of independent study can be applied toward the degree. Students who have not had at least one year of professional work experience in the public or nonprofit sectors must complete an internship through an additional 3-semester-hour course described in No. 6 below, bringing their total semester-hour requirements to 39.

2. Core Courses

All MPA students (with the exception of those in the executive MPA option) must complete the following core courses or approved equivalents, for a total of 18 credit hours. Students must receive a grade of at least B- (2.7) in each core class. Students who earn a lower grade in a core class may repeat the class once in an effort to improve the grade.

- PUAD 5001 - Introduction to Public Administration and Public Service
- PUAD 5002 - Organizational Management and Behavior
- PUAD 5003 - Research and Analytic Methods
- PUAD 5004 - Economics and Public Finance
- PUAD 5005 - The Policy Process and Democracy
- PUAD 5006 - Leadership and Professional Ethics

3. Electives

All MPA students must complete 15 hours of electives. Elective courses in which a student earns a grade of less than a C (2.0) will not be counted toward a degree.

4. Capstone Class

All MPA students, except those pursuing the thesis option, must complete the capstone course during the last semester of their degree program. All core courses must be completed before beginning the capstone.

- PUAD 5361 - Capstone Seminar

5. Thesis Option

The thesis option is available in lieu of PUAD 5361 for MPA students who have an interest in pursuing a topic in-depth or who are planning to pursue a career in research or academia. Students must receive approval from their faculty advisor or the MPA director to pursue the thesis option. The thesis is a six credit course that normally spans two semesters.

6. Internships

Students who have limited experience (generally defined as less than one year of experience) in public, nonprofit or relevant private-sector service must enroll in PUAD 6910, Field Study in Public Administration. The decision to require PUAD 6910 for a particular student is made by the faculty admissions committee or the student's faculty advisor upon the student's acceptance to the MPA program. A minimum of 300 hours of supervised work and study is required to earn 3 semester hours of credit. This requirement raises the total semester hours needed to earn the MPA degree to 39.

MPA Options

Concentrations and Graduate Certificates

All SPA concentrations are a total of 15 semester hours and may either be taken as part of the MPA program or as a stand-alone graduate certificate.

A student *may* choose to select one of the concentrations described below or may complete the MPA without a specified concentration. Students completing a concentration take their electives in the area of their concentration, complete the advanced seminar project in the area of their concentration and are advised by faculty from the concentration. The concentrations and their particular required courses are:

Environmental Policy, Management and Law Concentration

Students take the two courses listed below, plus three electives approved by the concentration director:

- PUAD 5631 - Seminar in Environmental Politics and Policy
 - PUAD 5632 - Seminar in Environmental Management
 - PUAD 5633 - Seminar in Natural Resource and Environmental Health Law
- Electives approved by advisor (3) (6-9 semester hours)

Total: 15 Hours

Local Government Concentration

Students take at least two of the four courses listed below, plus electives approved by the concentration advisor:

- PUAD 5503 - Governmental Budgeting
 - PUAD 5625 - Local Government Management
 - PUAD 5626 - Local Government Politics and Policy
 - PUAD 5628 - Urban Social Problems
- Electives approved by advisor (3) (6-9 semester hours)

Total: 15 Hours

Gender-Based Concentration

Students take four specified courses and one elective.

- PUAD 5910 - Nature and Scope of Interpersonal Violence
- PUAD 5920 - The Psychology of Interpersonal Violence
- PUAD 5930 - Interpersonal Violence Law and Public Policy
- PUAD 5940 - Interpersonal Violence Advocacy and Social Change

Total: 15 Hours

Emergency Management and Homeland Security Concentration

Students take two out of three required courses as well as electives approved by advisor.

- GEOG 5230 - Hazard Mitigation and Vulnerability Assessment
- PUAD 5650 - Disaster and Emergency Management Policies
- PUAD 5450 - Law of All-Hazards Management

Total: 15 Hours

The emergency management and homeland security concentration requires the completion of three electives chosen from a preapproved, multidisciplinary list of courses relevant to emergency management. Students may choose electives in one of three tracks: policy and management; spatial analysis, planning and quantitative assessment; or public safety, homeland security and justice.

Nonprofit Organizations Concentration

Students take two required courses as well as nonprofit electives approved by advisor.

- PUAD 5110 - Seminar in Nonprofit Management
 - PUAD 5140 - Nonprofit Financial Management
- Other nonprofit courses (9 semester hours)

Total: 15 Hours

The Accelerated Cohort

The accelerated MPA is a fast-paced, full-time option that brings academically superior students together with a dedicated research and teaching faculty in the midst of the vibrant downtown Denver environment.

The accelerated option enables students to focus their energies in a concentrated program of study and earn a nationally accredited, 36-hour MPA in 12 months. (It is preferred that applicants have some knowledge of economics, statistics and political science.)

The cost for the accelerated option is the same for both in-state and out-of-state students, providing out-of-state students with substantial savings.

The students in the cohort enjoy a unique experience as they go through all classes in the MPA together, fostering a community of scholar-practitioners.

Students are admitted to the program in cohorts of approximately 20 participants. A new cohort starts each fall. The cohort format helps to increase the opportunity to become acquainted with other graduate students and increases the opportunities for interaction between program participants and faculty.

The Executive Option

The School of Public Affairs currently offers an executive MPA option for senior level professionals in the nonprofit and public sectors. The Executive MPA option requires 30 semester hours of credit.

Initial Leadership Experience (3 credit hours): All students will enroll in the Rocky Mountain Program, a SPA residential leadership program. This is a six-day seminar typically held in Breckenridge that brings together public and non-profit professionals from across the country to collaborate on current management issues while honing leadership skills. Federal employees may elect OPM's federal Management Assessment Seminar at either the Western or Eastern Management Development Centers in lieu of the Rocky Mountain Program. For more information about the OPM program option please see www.leadership.opm.gov.

Required Courses (15 credit hours): All students are required to complete two courses (6 credits) held on the Denver campus in an intensive format (1-2 weeks). Students complete two additional core courses (6 credits) in either an online, weekend intensive, or through the traditional campus based classroom setting. All students complete their program with a capstone project (3 credits). The capstone project allows students to synthesize the information learned during the program and put it into practice within a professional setting.

Elective Courses (12 credit hours): In consultation with an advisor, students select elective courses that best meet their professional goals. These may be taken online or in the classroom. Students may complete up to 9 credits through the federal OPM Management Development Center provided they are approved for graduate credit by the American Council on Education.

Potential students may contact the program director, Dr. Kathleen Beatty, at kathleen.beatty@ucdenver.edu, for more information.

Online Option

SPA provides a unique opportunity for students who live at a distance from the university to obtain a MPA degree.

Designed to serve students who are looking for a high-quality education, but who need an alternative to traditional classroom instruction, students may elect to do one or all of their courses online. This option allows students to complete the entire degree at a distance or to choose to come to campus for some courses while using an interactive online format for others. For both in-state and out-of-state online students, tuition is comparable to the rate charged to in-state students for courses that meet in the classroom. The nonprofit organization concentration is available online, as well as a variety of other electives leading to a general MPA degree. Students in the executive option may also choose to do all SPA course work online.

Gender-Based Violence Cohort

The first graduate program of its kind in the nation, the University of Colorado Denver's MPA concentration in gender-based violence focuses on the management and policies surrounding gender-based violence, as well as grass-roots social justice work and best practices in this emerging field. Each fall, 10 to 20 students are accepted into the cohort program, allowing the participants to build a strong community of advocates and learners.

The program invites students from around the world to participate in a unique cohort program, which combines online courses with five intensive campus seminars spaced throughout the two-year program. Students may choose to take all courses in the classroom if they wish.

The cost of the gender-based violence concentration courses is the same for in-state and out-of-state students. Nonresident students pursuing the MPA with a concentration in gender-based violence may also qualify for reduced tuition through the Western Regional Graduate Program which covers 14 western states.

Western Slope Cohort

Public and nonprofit sector professionals living in Colorado's Western Slope have the opportunity to earn a MPA without traveling to the Front Range. SPA offers one MPA course each semester in Grand Junction at Mesa State College and supplements these offerings with online courses. Courses are designed to integrate the academic and applied experiences necessary to be an effective modern manager. The courses are offered in an intensive weekend format and emphasize the needs of small and rural communities.

PUBLIC HISTORY, MA IN HISTORY

► Graduate School Rules apply to this program.

The MA program in history offers graduate-level major and minor fields in public history. Public history is a field of study that applies historical methods to the public sphere. This graduate major requires a concentration, in either museum studies or historic preservation. Public history majors can minor in any subspecialty the department currently offers. Students majoring in U.S., European or Global history can also minor in public history.

Admission Requirements—See History MA

Degree Requirements

Required Introductory Course

- HIST 6013 - Introduction to the Professional Study of History

Total: 3 Hours

Major Courses

- HIST 5234 - Introduction to Public History

Concentration Requirement (optional)

Students who choose to concentrate in museum studies or historic preservation must take either

- HIST 5231 - History in Museums
- -OR- HIST 5232 - Historic Preservation

Research Seminar (3 hours)

Research seminars focus on students' development of an original, primary research paper.

Major Electives (9-12 hours)

Electives are made up of courses in public history, which focus on methodology and practice and thesis or project credits. These courses include:

- HIST 5133 - Management of Material Culture and Museum Collections
- HIST 5228 - Western Art and Architecture
- HIST 5229 - Colorado Historic Places
- HIST 5240 - National Parks History
- HIST 5242 - Oral History
- HIST 5243 - Public History Administration
- HIST 5244 - Interpretation of History in Museums: Exhibits and Education
- HIST 5245 - Heritage Tourism
- HIST 6992 - Seminar: Colorado Studies

Total: 18 Hours

Minor Electives

Electives are made up of courses in the minor field, including readings courses, which address specific field historiographies, or research seminars.

Total: 12 Hours

Open Elective

Students may use the open elective to explore a course outside their major or minor or to do extra course work in one of their fields.

Total: 3 Hours

Total: 36 Hours

Independent Studies and/or Internships

Candidates may register for up to 6 hours of internships or independent study, only one of which may be at the 6000-level. Students will not be allowed to satisfy the research seminar requirement via independent study. *Any independent study or internship at the 6000-level needs the permission of the graduate advisor.* Students interested in pursuing an independent study or internship must find a faculty member willing to oversee their work, and they should expect the workload to equal or exceed that required for other courses at the same level.

- HIST 5840 - Independent Study: History
- HIST 6840 - Independent Study: HIST
- HIST 6939 - Internship

Comprehensive Examinations

All history MA candidates must pass a comprehensive examination in the major and minor fields after the completion of course work and before embarking on a thesis, curriculum project or public history project. The comprehensive exam evaluates students' knowledge of their course work and their reading lists for their major, minor and concentration. In answering their exam questions, students are expected to construct arguments and to show mastery of the historiographies, narratives and historical content in their fields. The comprehensive exam is administered and evaluated by a committee of the major advisor, the minor advisor and an outside reader from the history faculty.

Master's Degree Extended Research Options

The MA program in history offers a set of courses in which students can develop extended research interests. Students must select an advisor and develop a proposal for a specific research agenda in the semester before beginning work on a project.

REQUIRED PUBLIC HISTORY THESIS (HIST 6950) OR PROJECT (HIST 6952)

Students majoring in public history must complete either a thesis (6 semester hours) or a project (3 semester hours).

OPTIONAL ADVANCED HISTORY CURRICULUM DEVELOPMENT (HIST 6951)

Students who undertake their master's program when they are already teachers can choose to construct curriculum projects relevant to their teaching practice. See the separate section below on "Opportunities for Teachers and Teachers-in-Training."

- HIST 6950 - Master's Thesis
- HIST 6951 - Masters Project: Advanced History Curriculum Development
- HIST 6952 - Master's Project: Public History

Thesis Requirements

Students writing theses are expected to develop an original research agenda resulting in an extended paper. Students work with their major field advisor, who will help guide them through the process of research and writing. Students enroll for six credit hours in HIST 6950 to complete their theses. Before registering for HIST 6950, students must have a thesis proposal and initial bibliography approved by their advisor.

A thesis is evaluated by a committee of three, including the major advisor and two other faculty members chosen by the student in consultation with the major advisor. Upon completion of the thesis, the student meets with the committee members, who ask questions about the research and conclusions which the student must defend. In many instances, the committee will require further revisions, sometimes major in scope, before the thesis is accepted and cleared for submission to the Graduate School in fulfillment of degree requirements.

Project Requirements

In lieu of a thesis, public history majors may choose to enroll in one semester of HIST 6952 to complete a public history project. Projects, which are usually conducted in collaboration with a public history organization, can entail creating an exhibit, organizing a museum or archival collection, conducting a preservation survey or similar activities. Students are required to prepare a paper describing the process and results of their project.

- HIST 6952 - Master's Project: Public History

Opportunities for Teachers and Teachers-in-Training

Curriculum Projects

Licensed teachers and teachers-in-training enrolled in the history graduate program may choose to complete a curriculum development project. Students arrange curriculum development projects with a

sponsoring faculty member. Generally, students are expected to develop and submit a complete course curriculum plan for this 3-semester-hour project. Projects need to show evidence of familiarity with the relevant historiographies and primary sources. Students may apply the credits from HIST 6951 to either the major field or the minor field, depending on the project subjects. Curriculum plans must meet minimum criteria established by the history department in the document Advanced History Curriculum Development Projects.

- HIST 6951 - Masters Project: Advanced History Curriculum Development
(3 semester hours in their major field or minor field)

Secondary Teacher Licensure

Students interested in secondary teacher licensure should consult with the School of Education and Human Development. See the Urban Community Teacher Education Program for information.

History MA

READING AND WRITING OPTION, MA CURRICULUM AND INSTRUCTION

Literacy, Language and Culturally Responsive Teaching

MA Requirements for the Reading and Writing Option and Secondary English Education Option, plus Reading Teacher Endorsement and Certificate Programs

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Click on any of the following to go right to that information:

- Reading and Writing
- Secondary English
- Early and Adolescent Literacy Certificates
- Literacy and Language Development for English Language Learners Certificate

Faculty

Information about faculty in this program is available online at

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/Our-Faculty.aspx>.

The faculty of literacy, language and culturally responsive teaching (LLCRT) believe that effective teaching requires an awareness of and the ability to respond to individual differences. LLCRT faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop

teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Reading and Writing Option and Reading Teacher Endorsement

This master's program is designed for K-6 and 7-12 teachers. This program is a credentialed program meeting the Colorado Department of Education requirements for the reading teacher endorsement. Please note that the Colorado Department of Education also requires 2 years of post-licensing teaching experience and a passing score on the Reading Teacher PLACE exam for the application for the reading teacher endorsement after graduation from the Reading and Writing program. Therefore, students who obtain a master's degree emphasizing reading and writing are certified to hold positions in public and private schools as special developmental and reading teachers in K-6 or 7-12. This program is also valuable for elementary and secondary teachers who wish to enhance reading and writing instruction in their classrooms.

By placing emphasis on the reading, writing and oral and visual language development of culturally, linguistically and academically diverse student populations, this master's program is at the forefront of the field. Language is approached from a socio-psycholinguistic perspective that emphasizes the learner's construction of meaning rather than the learning of isolated skills. Importance is placed on using theory, inquiry and personal reflection to inform classroom practice. The program prepares teachers to become decision makers capable of developing learner-centered curricula where each student's reading and writing abilities are assessed to address developmental or special needs.

Curriculum

Course offerings lead to an MA degree in curriculum and instruction with an emphasis in reading and writing, as well as a reading teacher endorsement, at one of two levels: K-6 or 7-12.

Those who have completed University of Colorado Denver's graduate-level teacher education licensure program must earn an additional 27 semester hours to obtain the MA and endorsement. Those who completed licensure through other means must earn an additional 36 semester hours to obtain the MA and endorsement.

Teachers may add a reading teacher endorsement to an already-earned master's degree in education by taking those courses listed under the chosen endorsement level. (In the state of Colorado, the reading teacher endorsement cannot simply be added to a bachelor's degree.) Electives and core courses are not required for those seeking the endorsement only. Two additional courses must be taken in other areas specified by the Colorado Department of Education. In many cases, previous master's degree courses will satisfy this requirement.

Each student's course plan is developed in conjunction with his/her advisor. Please review <http://www.ucdenver.edu/academics/college/SchoolOfEducation/CurrentStudents/Resources/Pages/LLCResources.aspx> for the recommended course sequence.

Requirements for Reading and Writing Program (Degree/Endorsement Options)

	ELEMENTARY (K-6)			SECONDARY (7-12)		
Course	MA & CDE Endorsement	MA & CDE Endorsement (when added to CU Denver's graduate teacher education licensure program)	CDE Endorsement Only	MA & CDE Endorsement	MA & CDE Endorsement (when added to CU Denver's graduate teacher education licensure program)	CDE Endorsement Only
LCRT 5020 - Workshop in Literacy and Language Teaching	Required		Required	Required	Required	Required
LCRT 5810 - Wksp: Lang Acq & Development	Required	Required	Required	Required	Required	Required
LCRT 5010 - Foundations of Language	Required	Required	Required	Required	Required	Required
LCRT 5710 - Primary Literacy: Pre-3rd Grade	Required	Required	Required			
LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12	Required	Required	Required	Required	Required	Required
LCRT 5730 - Language and Literacy Across the Curriculum	Required		Required	Required		Required
Children's literature	Select one	Select one	Select one			

course, per advisor approval						
LCRT 5201 - Adolescent Literature				Required	Required <i>(waived if taken as part of English Licensure)</i>	Required
LCRT 6910 - Seminar and Practicum in Literacy and Language, K-6	Required	Required	Required			
LCRT 6911 - Seminar and Practicum in Literacy and Language, 7-12+				Required	Required	Required
LCRT 5055 - Linking Assessment and Instruction in Language and Literacy	Required	Required	Required	Required	Required	Required
LCRT 6915 - Seminar and Practicum in Literacy Professional Development	Required	Required		Required	Required	Required
Core course in Research and Evaluation Methodology - see list below	Select one	RSEM 5080 (preferred)		Select one	RSEM 5080 (preferred)	
Interdisciplinary core course - see list below	Select one			Select one		
Graduate-level School of				Select one		

Education and Human Development elective						
Portfolio	Required	Required		Required	Required	
PLACE Exam	Required	Required	Required	Required	Required	Required
Total Semester Hours	36	27	27	36	27	27

Secondary English Education Option

The master's program in secondary English education is designed to enhance the preparation of middle and high school English/language arts teachers. Students complete course work in language development, assessment and field experiences. With the help of their advisor, they also select specific courses from the English Department or within the School of Education and Human Development that provide a well-rounded repertoire of knowledge and skills to fulfill the needs of an English educator. Special consideration is given to working with diverse ethnic populations.

Program Requirements

To earn a master of arts degree in curriculum and instruction with an emphasis in secondary English education, students must complete the following:

- 30 graduate semester hours in English education
- 6 graduate semester hours of core courses
- performance-based assessments that culminate in a portfolio finalized in the last semester of the program as fulfillment of the MA comprehensive exam requirement

Each student's course plan is developed in conjunction with his/her advisor. Please review <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LCResources.aspx> for recommended course sequence.

LCRT 5055 - Linking Assessment and Instruction in Language and Literacy Semester Hours: 3

LCRT 5201 - Adolescent Literature Semester Hours: 3

LCRT 5200 - Theory and Methods of English Education Semester Hours: 3

LCRT 5810 - Wksp: Lang Acq & Development Semester Hours: 3

LCRT 5010 - Foundations of Language Semester Hours: 3

LCRT 6911 - Seminar and Practicum in Literacy and Language, 7-12+ Semester Hours: 3

Research and Evaluation Methodology core course (see list below).

Interdisciplinary core course (see list below).

Four electives, per advisor approval, from the English department and/or the School of Education & Human Development. The following are recommended:

LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12 Semester Hours: 3

-OR-

ENGL 5110 - Denver Writing Project Semester Hours: 3

Courses in working with English language learners and in instructional technology may also be helpful. For a technology course, please contact the professor about prerequisite knowledge.

Total: 36 semester hours

Program Requirements--When Added to CU Denver's Graduate Teacher Education Licensure Program

MA in curriculum and instruction with emphasis in secondary English education, when added to CU Denver's graduate teacher education licensure program:

- 18 graduate semester hours
- performance-based assessments that culminate in a portfolio finalized in the last semester of the program as fulfillment of the MA comprehensive exam requirement

Each student's course plan is developed in conjunction with his/her advisor. Please see website <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LCResources.aspx> for recommended course sequence.

FNDS 5050 - Critical Issues in American Education Semester Hours: 3

-OR-

SPED 5300 - Collaborating in Schools and Communities Semester Hours: 3

RSEM 5080 - Research In Schools Semester Hours: 3

Four electives, per advisor approval, from the English department and/or the School of Education & Human Development. The following are recommended:

LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12 Semester Hours: 3

-OR-

ENGL 5110 - Denver Writing Project Semester Hours: 3

Courses in working with English language learners and in instructional technology may also be helpful. For a technology course, please contact the professor about prerequisite knowledge.

Total: 18 semester hours

Core Courses

Research and Evaluation Methodology

RSEM 5050 - Classroom Assessment Semester Hours: 3

RSEM 5080 - Research In Schools Semester Hours: 3

RSEM 5100 - Basic Statistics Semester Hours: 3

RSEM 5120 - Introduction to Research Methods Semester Hours: 3

RSEM 5110 - Introduction to Measurement Semester Hours: 3

Interdisciplinary

EPSY 5100 - Advanced Child Growth and Development Semester Hours: 3

EPSY 5140 - Advanced Adolescent Growth and Development Semester Hours: 3

EPSY 5220 - Adult Learning and Education Semester Hours: 3

EPSY 6200 - Human Development Over the Life Span Semester Hours: 3

FNDS 5050 - Critical Issues in American Education Semester Hours: 3

FNDS 5420 - History and Philosophy of Education: Twentieth Century America Semester Hours: 3

LCRT 5140 - Multicultural Education Semester Hours: 3

LCRT 5150 - Culture of the Classroom Semester Hours: 3

CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn Semester Hours: 3

CLDE 5820 - Techniques in Teaching English as a Second Language Semester Hours: 3

Cumulative Portfolio

The MA portfolio counts as the comprehensive exam for the master's degree. The portfolio is an accumulation of the performance based assessments completed during program courses and reflects on the student's development over the course of the degree program. Reading and writing students must include confirmation of Reading Teacher PLACE exam registration in their portfolios. Information about the PLACE is online at www.place.nesinc.com.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the summer semester, three- to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester, and up to two courses each summer. Plan carefully because courses are intended to build upon each other, and some courses are only offered once a year.

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

Early and Adolescent Literacy Certificates

The early literacy certificate and adolescent literacy certificate each include three graduate-level courses (for a total of 9 semester hours) and are conveniently offered entirely online. They are specifically designed to help licensed teachers develop the skills necessary to reach student readers. To find out more, please visit www.ucdenver.edu/education/cpe or email cpe@ucdenver.edu.

Literacy and Language Development for English Language Learners Certificate

This graduate certificate program is for teachers of English Language Learners, and was developed in response to public school districts' need to improve reading and writing achievement for students whose first language is other than English. The program is designed for teachers of elementary and secondary grades and those teaching special reading classes. More information can be found at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/LiteracyandLanguageDevelopmentforELLCertificate.aspx>.

RECORDING ARTS, MASTER OF SCIENCE (MSRA)

► Graduate School Rules apply to this program. Contact CAMadvising@ucdenver.edu for information on how to access these rules.

Program Overview

Recording arts is a field that deals with all aspects of recorded music and sound, including mixing, mastering, production, MIDI sequencing, live sound reinforcement, and post-production for film and video. The program refines students' skills in sound recording, aesthetics, multi-track recording, analog and digital signal processing, automated mixing, synchronization, stereo and surround imaging, mastering and post-production.

In addition, the program recognizes the need for pedagogy degrees. Pedagogy is synonymous with teaching, and this program includes a survey of available resources for audio education. The curriculum offers an interdisciplinary approach, including physics, acoustics, engineering, music, broadcast, psychoacoustics, multimedia, theatre, film and video. The program emphasizes design and development of new methods and materials.

CU Denver's master of science in recording arts (MSRA) has the only pedagogy track in the nation. This graduate degree is designed to:

- prepare students for careers in audio application for the fields of mass communications, education, music, multimedia and the entertainment industries.
- enhance advancement of professionals in their careers.
- help prepare the music educators of the future.

Students may choose between a thesis (written research) or non-thesis (portfolio research with a recorded presentation: music recording, audio for video, or other media) option.

Graduate courses comprising the core of the MSRA program advance students' artistic, pedagogical, technical and problem-solving abilities. Elective courses allow each student to develop additional skills and knowledge in related areas, including surround sound, acoustics, studio design, DSP and others.

CAM encourages students from allied disciplines (music, physics, engineering, etc.) to apply. Students are not required to have their bachelor's in recording arts—the bachelor's degree can be from any discipline. Applicants can qualify for the MSRA by having equivalent level preparation (e.g., work experience). Candidates without sufficient experience/training in recording arts may be required to take preparatory courses at the undergraduate level.

Note: The application process and requirements for the master of science in recording arts (MSRA) differ from those listed for the MSRA media forensics emphasis.

MSRA Application Components

The following are required of all students applying to the MSRA program, with the exception of international students. International students should consult the Office of International Affairs for specific information on the application procedure, admission requirements and application

forms: <http://www.ucdenver.edu/academics/InternationalPrograms/OIA/admissions/Pages/default.aspx>.

1. Graduate Admissions Application

Students should plan to apply online:

<http://www.ucdenver.edu/academics/colleges/CAM/programs/meis/masterdegree/Pages/ApplicationComponents.aspx>.

Students are required to complete the Application for Graduate Admissions form.

Program of study: On the online application, the plan of study for all master of science in recording arts candidates is Recording Arts (RCDA-MS).

International students must complete paperwork in addition to the components below. International student applications must be received six months prior to the term for which the student is applying. Contact the Office of International Affairs for specific application forms.

2. In-State Tuition Classification Application

Students who may qualify for Colorado in-state tuition (i.e., residency) should fill out the in-state tuition form. *The Office of Admissions will make the determination of residency.* For information on residency criteria contact the Office of Admissions at 303-315-2601 or admissions@ucdenver.edu.

3. Entrance Examinations(s)

Official GRE scores (www.ets.org/gre)—All applicants to the MSRA degree program must submit scores from the GRE. The General Test offered by the Educational Testing Service (ETS) will assist the department in evaluating applicants in the areas of verbal, quantitative and analytical writing skills. This examination is offered internationally by the Educational Testing Service on a continuous schedule. The minimum required score for entrance to the program is the 50th percentile, though each student's score will be evaluated as a portion of the complete application. This examination is not intended to exclude any applicant from the degree program, but rather to assist in academic advising. To submit their GRE scores, applicants should use the ETS code for the University of Colorado Denver (**4875**). There is no department code for the program.

Scores must be received by the application deadline; therefore, students should plan accordingly when scheduling their testing dates. Late GRE scores are not accepted; these applications will not be reviewed.

Test of English as a Foreign Language (TOEFL) (www.ets.org/toefl)—This examination is required for international students for whom English is not the primary language. These students are required to have a minimum TOEFL score of 71 IBT or 525 PBT. As this is a highly technical degree program, which will require a specialized vocabulary and strong written skills, higher TOEFL scores are preferred.

4. Transcripts

The most recent *official* academic transcripts must be sent from the registrar of all higher education institutions previously attended. Official transcripts should be mailed to:

MSRA Graduate Admissions Committee
Campus Box 162, P.O. Box 173364
Denver, CO 80217-3364

5. **Letters of Recommendation**

Three (3) letters of recommendation are required from responsible persons who can attest to the academic and professional accomplishments of the applicant. The names of those who are providing letters of recommendation should be included in Part II of the application.

Letters of recommendation must be accompanied by the letter of recommendation form, available on the MSRA website at <http://www.ucdenver.edu/academics/colleges/CAM/programs/meis/masterdegree/Pages/ApplicationComponents.aspx>.

Incomplete letters of recommendation will not be considered, and the application will not be reviewed.

6. **Application Essay**

This essay should summarize the educational and professional history of the applicant relative to a career in the audio/music industry, and should include:

- complete name and contact information
- educational background
- career objective
- anticipated dates of attendance

The essay must be typed, double-spaced and in English; the preferred length is 3-5 pages.

7. *Resume*

Students are required to submit a 1-2 page typed resume, including educational background, work experience and relevant skills. Students are welcome to include any published works, exhibitions, performances, awards or other relevant achievements. The resume should be chronological, beginning with educational background and progressing to employment history. Please refrain from functional resumes or those that simply summarize qualities or competencies. This professional vita complements the essay by providing a chronology of all educational and work experiences and of scholarly/creative work.

8. *Portfolio*

All applicants will submit a portfolio of recordings that represent their best accomplishments in audio production. Presentation, breadth of experience, and technical and artistic quality will be evaluated.

The required submission format is an audio Compact Disc (CD) or DVD-V, with an annotated discography (index) to the portfolio material and a clear and accurate labeling of all material. Discography *must* include the applicant's function on each track (e.g. artist/performer, engineer, producer, arranger, etc.). Compressed audio recordings (MP3, AAC, etc.) will not be accepted.

A DVD portfolio may be submitted if the student's primary experience is in visual media (film, TV, etc.). DVD portfolios must also contain an annotated discography.

Helpful tips for a good portfolio are available on the MSRA website at <http://www.ucdenver.edu/academics/colleges/CAM/programs/meis/masterdegree/Pages/ApplicationComponents.aspx>. Portfolio submissions that do not follow these guidelines will not be evaluated, and the application will not be processed.

9. **Application Fee**

\$50 nonrefundable for domestic (within the USA) applicants

\$75 nonrefundable for international applicants

The application fee must be paid with a check, money order or by credit card. Cash will not be accepted. The fee must be paid in U.S. dollars.

Applications that do not include all of the requirements listed above, or that include partial components, are considered incomplete and will not be reviewed.

Required Courses

- MSRA 5000 - Introduction to Graduate Studies
- MSRA 5001 - MSRA Research Seminar
- MSRA 5580 - Graduate Audio Seminar I
- MSRA 5590 - Graduate Audio Production
- MSRA 6510 - Graduate Audio Studies Pedagogy

- MSRA 6950 - Thesis in Professional Audio
or
- MSRA 6951 - Professional Audio Portfolio Thesis

Total: 19 Hours

Electives

Choose **15 semester hours** from the list below. Students may take courses not listed here upon approval of the faculty or academic advisor.

- MSRA 5500 - Topics in Professional Audio (spring)
- MSRA 5505 - Audio Post Production I (fall)
- MSRA 5530 - Live Sound Reinforcement (fall/spring)
- MSRA 5560 - Mastering & Advanced Digital Audio (spring)
- MSRA 5575 - Graduate Surround Sound (spring)
- MSRA 5605 - Audio Post Production II (spring)
- MSRA 5820 - Digital Music Techniques (fall)
- MSRA 5840 - Independent Study for MSRA (spring, fall, summer)

Program Total: 34 Hours

Students should plan to graduate in a minimum of 4 semesters. Students can apply for graduation in any semester (fall, spring or summer), provided they have completed the required course work. All course work must be completed with a satisfactory grade of "B" (3.0) or higher. Students should not register for thesis/portfolio, unless approved by the faculty advisor.

Please refer to the master of science in recording arts website for additional

information: <http://www.ucdenver.edu/academics/colleges/CAM/programs/meis/masterdegree/Pages/index.aspx>.

SCHOOL LIBRARY AND INSTRUCTIONAL LEADERSHIP MA

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: www.ucdenver.edu/education/schoollibrary

Faculty

Information about SLIL faculty is available online at www.ucdenver.edu/education/schoollibrary.

Program Overview

The school library and instructional leadership program within the ILT master's degree program is a nationally recognized NCATE-AASL revised and approved school library media education program that leads to the Colorado Department of Education endorsement for school libraries. The program integrates information literacy standards through the use of collaborative planning, as approved by the American Association of School Libraries. Technology and library resources are seen as tools to increase student achievement by integrating the information literacy standards with the content standards of the classroom teacher. The program adheres to the constructivist theory of resource-based learning and promotes an appreciation of children's and adolescent literature. The program believes that school librarians require education as a teacher as well as a librarian, as advocated by the American Library Association and the International Association of School Libraries. As a school librarian, you will provide collaborative instruction, information access and leadership through the management of your library program and the library resources. Courses are offered in a completely online program, or a monthly Saturday cohort scheduled in communities across Colorado.

Once admitted, students begin a plan of study that typically takes about two years to complete. Consult the SLIL website for more information about specific plans of study, course offerings and expectations of cohort groups.

Admission Requirements

Admission decisions are based on undergraduate and graduate grades, external letters of recommendation and fit with the program as reflected in a letter of intent. In some cases, results of a test (GRE) are also required. Prospective students should consult the SLIL program website for complete admission procedures and requirements.

Professional Expectations

All students in the SLIL program are expected to show a strong commitment to the program and to maintain high academic, professional and ethical standards. Inappropriate or unprofessional conduct is cause for discipline or dismissal from the program.

Technology Expectations

The SLIL program uses computers and related technologies either as a focus or a tool for learning. Students are expected to obtain an e-mail account and check it frequently. In addition to on-campus facilities, SLIL students need convenient access to Internet-connected computers off campus, either at their place of work or at home. In addition to textbooks, software purchases may be required or recommended for specific classes.

Program Requirements

School library students also have a choice between endorsement-only and full master's programs. The master's program requires a minimum of 36 graduate semester hours. Students complete a plan of study consisting of courses and professional field experience. To receive Colorado teacher endorsement, students are required to pass the PLACE test in school library. This is a Colorado Department of Education requirement.

An Example of Two-Year Plan for School Library Program

Courses are offered only in certain semesters and courses should be taken in a particular sequence based on when you start the program. Advising is required prior to enrolling in a course, even as a non-degree student, in order to ensure the most effective course sequencing and availability of courses.

Typical First Year

Fall	Spring	Summer
SCHL 5530 - Foundations of School Librarianship* LCRT 5790 - Children's Literature Through the Ages***	SCHL 5020 - Collection Development	SCHL 5110 - Integrating Instructional Technology Practices in School Libraries (MA only) LCRT 5201 - Adolescent Literature . ***

Second Year

Fall	Spring	Summer
SCHL 5160 - Managing School Library Programs SCHL 6720 - Research In Information And Learning Technologies *** SCHL 5911 - School Library Field Experience-Elementary **	SCHL 5030 - Information Literacy and Reference SCHL 5912 - School Library Field Experience-Secondary **	SCHL 5040 - Information Storage and Utilization SCHL 6999 - Leadership and Practice in School Libraries (MA Only)

* SCHL 5530 Foundations in School Librarianship should be taken as the first course in your program.

** 80 hours of field experience hours are required. Field experience may be completed over the course of a year; online seminar hours will be completed during the field experience timeframe. Field experiences are completed within a pre-approved school library. See Field Experience Policy for more information.

*** LCRT 5201; LCRT 5790; and SCHL 6720 are offered on-campus in other semesters as well.

Comprehensive Examination for All SLIL Students

The comprehensive exam consists of a professional portfolio where in students demonstrate program competencies through work products and related accomplishments. The portfolio is created throughout the student's program and submitted for faculty review the final semester. For more information, see the ILT website. For complete details about the SLIL program and endorsement requirements, see the ILT website at www.ucdenver.edu/education/schoollibrary.

SCHOOL PSYCHOLOGY PSYD/LICENSURE

- Degree
- Admission Requirements

Program Leader: Franci Crepeau-Hobson

Office: Lawrence Street Center, 1113

Phone: 303-315-6315

Fax: 303-315-6349

E-mail: franci.crepeau-hobson@ucdenver.edu

Website: www.ucdenver.edu/education/spsy

Faculty

Information about faculty in the school psychology program is available online at www.ucdenver.edu/education.

Degree

The doctor of psychology (PsyD) degree in school psychology is a 94 graduate semester-hour program that leads to licensure as a school psychologist by the Colorado Department of Education and prepares graduates to apply for licensure by the Colorado State Board of Psychologist Examiners.

The program is based on the *Accreditation Domains and Standards* of the American Psychological Association (APA) and the *Model for Comprehensive and Integrated School Psychological Services* endorsed by the National Association of School Psychologists (NASP). This model and these standards promote the following domains of psychology: data-based decision-making and accountability; consultation and collaboration; interventions and mental health services to develop social and life skills; school-wide practices to promote learning; preventative and responses services; family-school collaboration services; diversity in development and learning; biological bases of behavior; research and program evaluation; and legal, ethical and professional practice.

Consistent with a practitioner-scholar model, the PsyD Program in School Psychology prepares professional school psychologists through rigorous academic study integrated with intensive supervised clinical practice. The Program includes an emphasis on the delivery of mental health services in schools, as well as the development of advanced level practice skills. The Program stresses the application of scholarly findings to practice, as well as a respect for all aspects of diversity.

Bilingual School Psychologist Concentration Option

This specialization provides School Psychology students with the knowledge and skills to effectively serve English language learners in the school setting. In addition to the three required courses and practicum component, the Bilingual School Psychologist concentration consists of language proficiency assessments to ensure that school psychologists are adequately proficient in another language to provide psychoeducational services. CU Denver provides one of the few bilingual school psychology concentration areas in the country making our graduates even more desirable in their future endeavors.

Admission Requirements

Successful applicants to the school psychology (SPSY) program will have obtained a minimum 3.0 undergraduate GPA and a combined score of at least 300 on the verbal and quantitative sections of the Graduate Record Exam (GRE) and a minimum score of a 3.5 on the written portion of the GRE. Applicants will also submit a current resume or vita, a personal statement that outlines their reasons for pursuing a degree in school psychology at CU Denver, and three letters of recommendation. The highest ranked applicants will be invited to a full-day group interview that includes a program orientation, a writing assignment, and a campus tour.

Application materials are available at

https://soa.prod.cu.edu/degreeprog/applyDEGREEPROG_CUDEN/login.action. All materials must be submitted online by December 15 for fall semester admissions. Application materials include the following:

- part I of the application for admissions
- tuition classification form
- \$50 application fee (make checks payable to the University of Colorado Denver)
- letter of intent/personal statement
- three letters of recommendation

- two official transcripts from each higher education institution attended (in the original, sealed envelope)
- official GRE scores sent directly to the University of Colorado Denver
- oath and consent
- fingerprint affidavit

Requirements for the Doctor of Psychology Degree in School Psychology and Licensure

Students will complete course work in learning and cognition, academic interventions, legal and professional issues, psychological assessment, crisis intervention, counseling and other direct interventions, and consultation. Specific course requirements include three prerequisite courses, 71 credit hours of coursework, 7 credit hours of practica (minimum of 500 hours in the field), 4 credit hours of externships (minimum of 400 clock hours in the field), 8 credit hours of internship (minimum of 1500 clock hours in the field), and 4 capstone project credit hours. Successful completion of the School Psychology Praxis II exam during the course of study and passing of comprehensive examinations are also required. Prerequisites include an undergraduate or graduate course in each of the following: measurement concepts, basic statistics, and child development. Students may be admitted to the program without first completing these prerequisites; however, these courses must be completed during the first year of study.

Program Requirements

Students will complete the following core course work:

- CPCE 5010 - Counseling Theories
- EPSY 5240 - Cognition and Instruction
- PSYC 7220 - Advanced Biological Bases of Behavior
- PSYC 7511 - Historical and Philosophical Foundations of Psychology
- PSYC 8550 - Advanced Social Psychology
- RSEM 6100 - Methods of Qualitative Inquiry
- RSEM 7000 - Doctoral Seminar in Research Methods
- RSEM 7050 - Methods of Survey Research
- RSEM 7110 - Intermediate Statistics
- RSEM 7210 - Program Evaluation
- SPSY 5600 - Behavior Analysis and Intervention
- SPSY 5900 - School-Based Multicultural Interventions
- SPSY 6100 - School Psychology: Professional and Legal Foundations
- SPSY 6150 - Psychoeducational Assessment I
- SPSY 6160 - Psychoeducational Assessment II
- SPSY 6170 - Assessment and Intervention: Birth to 3
- SPSY 6350 - School-Based Interventions: Children, Youth and Families
- SPSY 6400 - School-Based Interventions: Groups, Classrooms and Systems
- SPSY 6410 - Psychoeducational Assessment of Culturally and Linguistically Diverse Students
- SPSY 6420 - Crisis Prevention, Planning and Intervention
- SPSY 6450 - School-Based Consultation for Mental Health Professionals
- SPSY 6500 - Identifying and Planning for the Mental Health Needs of Children and Adolescents
- SPSY 6550 - Academic Interventions in School Psychology

Supervised Experiences

- SPSY 6911 - School Psychology Practicum
- SPSY 6917 - Advanced Practicum in Psychological Assessment
- SPSY 6918 - Clinical Externship
- SPSY 6930 - School Psychology Internship

Total: 94 Hours

The doctor of psychology in school psychology degree also requires satisfactory completion of a professional portfolio, demonstrating mastery of the program objectives, a passing score (≥ 165) on the PRAXIS specialty exam in school psychology, a passing score on a written comprehensive examination, and completion of a capstone/applied research project .

Professional Expectations

All students in the SPSY program are expected to show a strong commitment to the program and to maintain a high academic, professional, ethical standards and a sensitivity to diversity. Inappropriate or unprofessional conduct is cause for discipline or dismissal from the program.

SECONDARY ENGLISH EDUCATION OPTION, MA CURRICULUM AND INSTRUCTION

Literacy, Language and Culturally Responsive Teaching

MA Requirements for the Reading and Writing Option and Secondary English Education Option, plus Reading Teacher Endorsement and Certificate Programs

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

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Click on any of the following to go right to that information:

- Reading and Writing
- Secondary English
- Early and Adolescent Literacy Certificates
- Literacy and Language Development for English Language Learners Certificate

Faculty

Information about faculty in this program is available online at

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/Our-Faculty.aspx>.

The faculty of literacy, language and culturally responsive teaching (LLCRT) believe that effective teaching requires an awareness of and the ability to respond to individual differences. LLCRT faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop

teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Reading and Writing Option and Reading Teacher Endorsement

This master's program is designed for K-6 and 7-12 teachers. This program is a credentialed program meeting the Colorado Department of Education requirements for the reading teacher endorsement. Please note that the Colorado Department of Education also requires 2 years of post-licensing teaching experience and a passing score on the Reading Teacher PLACE exam for the application for the reading teacher endorsement after graduation from the Reading and Writing program. Therefore, students who obtain a master's degree emphasizing reading and writing are certified to hold positions in public and private schools as special developmental and reading teachers in K-6 or 7-12. This program is also valuable for elementary and secondary teachers who wish to enhance reading and writing instruction in their classrooms.

By placing emphasis on the reading, writing and oral and visual language development of culturally, linguistically and academically diverse student populations, this master's program is at the forefront of the field. Language is approached from a socio-psycholinguistic perspective that emphasizes the learner's construction of meaning rather than the learning of isolated skills. Importance is placed on using theory, inquiry and personal reflection to inform classroom practice. The program prepares teachers to become decision makers capable of developing learner-centered curricula where each student's reading and writing abilities are assessed to address developmental or special needs.

Curriculum

Course offerings lead to an MA degree in curriculum and instruction with an emphasis in reading and writing, as well as a reading teacher endorsement, at one of two levels: K-6 or 7-12.

Those who have completed University of Colorado Denver's graduate-level teacher education licensure program must earn an additional 27 semester hours to obtain the MA and endorsement. Those who completed licensure through other means must earn an additional 36 semester hours to obtain the MA and endorsement.

Teachers may add a reading teacher endorsement to an already-earned master's degree in education by taking those courses listed under the chosen endorsement level. (In the state of Colorado, the reading teacher endorsement cannot simply be added to a bachelor's degree.) Electives and core courses are not required for those seeking the endorsement only. Two additional courses must be taken in other areas specified by the Colorado Department of Education. In many cases, previous master's degree courses will satisfy this requirement.

Each student's course plan is developed in conjunction with his/her advisor. Please review <http://www.ucdenver.edu/academics/college/SchoolOfEducation/CurrentStudents/Resources/Pages/LLCResources.aspx> for the recommended course sequence.

Requirements for Reading and Writing Program (Degree/Endorsement Options)

	ELEMENTARY (K-6)			SECONDARY (7-12)		
Course	MA & CDE Endorsement	MA & CDE Endorsement (when added to CU Denver's graduate teacher education licensure program)	CDE Endorsement Only	MA & CDE Endorsement	MA & CDE Endorsement (when added to CU Denver's graduate teacher education licensure program)	CDE Endorsement Only
LCRT 5020 - Workshop in Literacy and Language Teaching	Required		Required	Required	Required	Required
LCRT 5810 - Wksp: Lang Acq & Development	Required	Required	Required	Required	Required	Required
LCRT 5010 - Foundations of Language	Required	Required	Required	Required	Required	Required
LCRT 5710 - Primary Literacy: Pre-3rd Grade	Required	Required	Required			
LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12	Required	Required	Required	Required	Required	Required
LCRT 5730 - Language and Literacy Across the Curriculum	Required		Required	Required		Required
Children's literature	Select one	Select one	Select one			

course, per advisor approval						
LCRT 5201 - Adolescent Literature				Required	Required <i>(waived if taken as part of English Licensure)</i>	Required
LCRT 6910 - Seminar and Practicum in Literacy and Language, K-6	Required	Required	Required			
LCRT 6911 - Seminar and Practicum in Literacy and Language, 7-12+				Required	Required	Required
LCRT 5055 - Linking Assessment and Instruction in Language and Literacy	Required	Required	Required	Required	Required	Required
LCRT 6915 - Seminar and Practicum in Literacy Professional Development	Required	Required		Required	Required	Required
Core course in Research and Evaluation Methodology - see list below	Select one	RSEM 5080 (preferred)		Select one	RSEM 5080 (preferred)	
Interdisciplinary core course - see list below	Select one			Select one		
Graduate-level School of				Select one		

Education and Human Development elective						
Portfolio	Required	Required		Required	Required	
PLACE Exam	Required	Required	Required	Required	Required	Required
Total Semester Hours	36	27	27	36	27	27

Secondary English Education Option

The master's program in secondary English education is designed to enhance the preparation of middle and high school English/language arts teachers. Students complete course work in language development, assessment and field experiences. With the help of their advisor, they also select specific courses from the English Department or within the School of Education and Human Development that provide a well-rounded repertoire of knowledge and skills to fulfill the needs of an English educator. Special consideration is given to working with diverse ethnic populations.

Program Requirements

To earn a master of arts degree in curriculum and instruction with an emphasis in secondary English education, students must complete the following:

- 30 graduate semester hours in English education
- 6 graduate semester hours of core courses
- performance-based assessments that culminate in a portfolio finalized in the last semester of the program as fulfillment of the MA comprehensive exam requirement

Each student's course plan is developed in conjunction with his/her advisor. Please review <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LCResources.aspx> for recommended course sequence.

LCRT 5055 - Linking Assessment and Instruction in Language and Literacy Semester Hours: 3

LCRT 5201 - Adolescent Literature Semester Hours: 3

LCRT 5200 - Theory and Methods of English Education Semester Hours: 3

LCRT 5810 - Wksp: Lang Acq & Development Semester Hours: 3

LCRT 5010 - Foundations of Language Semester Hours: 3

LCRT 6911 - Seminar and Practicum in Literacy and Language, 7-12+ Semester Hours: 3

Research and Evaluation Methodology core course (see list below).

Interdisciplinary core course (see list below).

Four electives, per advisor approval, from the English department and/or the School of Education & Human Development. The following are recommended:

LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12 Semester Hours: 3

-OR-

ENGL 5110 - Denver Writing Project Semester Hours: 3

Courses in working with English language learners and in instructional technology may also be helpful. For a technology course, please contact the professor about prerequisite knowledge.

Total: 36 semester hours

Program Requirements--When Added to CU Denver's Graduate Teacher Education Licensure Program

MA in curriculum and instruction with emphasis in secondary English education, when added to CU Denver's graduate teacher education licensure program:

- 18 graduate semester hours
- performance-based assessments that culminate in a portfolio finalized in the last semester of the program as fulfillment of the MA comprehensive exam requirement

Each student's course plan is developed in conjunction with his/her advisor. Please see website <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LCResources.aspx> for recommended course sequence.

FNDS 5050 - Critical Issues in American Education Semester Hours: 3

-OR-

SPED 5300 - Collaborating in Schools and Communities Semester Hours: 3

RSEM 5080 - Research In Schools Semester Hours: 3

Four electives, per advisor approval, from the English department and/or the School of Education & Human Development. The following are recommended:

LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12 Semester Hours: 3

-OR-

ENGL 5110 - Denver Writing Project Semester Hours: 3

Courses in working with English language learners and in instructional technology may also be helpful. For a technology course, please contact the professor about prerequisite knowledge.

Total: 18 semester hours

Core Courses

Research and Evaluation Methodology

RSEM 5050 - Classroom Assessment Semester Hours: 3

RSEM 5080 - Research In Schools Semester Hours: 3

RSEM 5100 - Basic Statistics Semester Hours: 3

RSEM 5120 - Introduction to Research Methods Semester Hours: 3

RSEM 5110 - Introduction to Measurement Semester Hours: 3

Interdisciplinary

EPSY 5100 - Advanced Child Growth and Development Semester Hours: 3

EPSY 5140 - Advanced Adolescent Growth and Development Semester Hours: 3

EPSY 5220 - Adult Learning and Education Semester Hours: 3

EPSY 6200 - Human Development Over the Life Span Semester Hours: 3

FNDS 5050 - Critical Issues in American Education Semester Hours: 3

FNDS 5420 - History and Philosophy of Education: Twentieth Century America Semester Hours: 3

LCRT 5140 - Multicultural Education Semester Hours: 3

LCRT 5150 - Culture of the Classroom Semester Hours: 3

CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn Semester Hours: 3

CLDE 5820 - Techniques in Teaching English as a Second Language Semester Hours: 3

Cumulative Portfolio

The MA portfolio counts as the comprehensive exam for the master's degree. The portfolio is an accumulation of the performance based assessments completed during program courses and reflects on the student's development over the course of the degree program. Reading and writing students must include confirmation of Reading Teacher PLACE exam registration in their portfolios. Information about the PLACE is online at www.place.nesinc.com.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the summer semester, three- to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester, and up to two courses each summer. Plan carefully because courses are intended to build upon each other, and some courses are only offered once a year.

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

Early and Adolescent Literacy Certificates

The early literacy certificate and adolescent literacy certificate each include three graduate-level courses (for a total of 9 semester hours) and are conveniently offered entirely online. They are specifically designed to help licensed teachers develop the skills necessary to reach student readers. To find out more, please visit www.ucdenver.edu/education/cpe or email cpe@ucdenver.edu.

Literacy and Language Development for English Language Learners Certificate

This graduate certificate program is for teachers of English Language Learners, and was developed in response to public school districts' need to improve reading and writing achievement for students whose first language is other than English. The program is designed for teachers of elementary and secondary grades and those teaching special reading classes. More information can be found at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/LiteracyandLanguageDevelopmentforELLCertificate.aspx>.

SOCIAL SCIENCE MSS

- ▶ Graduate School Rules apply to this program

Requirements for Admission

General rules for admission into the Graduate School apply to admission into the MSS program.

For admission as a regular graduate student, applicants must:

- have earned a bachelor's degree
- submit two official copies of all transcripts, with an overall GPA of at least 3.0 out of 4.0
- have appropriate undergraduate training or professional background or indicators that supply evidence of ability to pursue the MSS degree
- include a writing sample
- submit three letters of recommendation (at least two from academic sources)
- submit a written statement specifying the goal of advanced study in the social sciences, expressed in clear, correct and effective English
- standardized test scores are not required, but will be considered if submitted

After meeting all other requirements for admission, applicants may be required to have an interview to discuss their interest in the program and their plans for study. For out-of-state applicants, an appropriate substitute for the interview may be determined by the director.

Provisional Admission:

Applicants may be admitted as provisional-status graduate students if their complete record indicates a high probability of success.

Non-degree Students:

Potential applicants may take graduate-level courses as nondegree students (unclassified student with a bachelor's degree) if they:

1. Wish to strengthen their record in order to demonstrate that they can successfully complete courses in the program
–or–
2. Wish to start courses in the program prior to completing their application. Up to 12 semester hours taken as a nondegree student may be accepted by the program once a student has been admitted into the program (the 12-hour limit also includes graduate work from another university).

International Students:

International students must also meet CU Denver requirements for international admission. See the Information for International Students section of this catalog or call 303-315-2230 for further information.

Degree Requirements

The MSS is a 36-semester-hour program, of which 30 hours must meet all specifications of the Graduate School . Throughout their work toward the MSS degree, students must maintain at least a *B* (3.0) average in all courses. A grade below *B-* will not be counted toward the degree.

Students may pursue courses around any coherent theme with the approval of MSS program directors and advisors. In addition to the unlimited self-structured options, there are five tracks in place from which students can select: women's and gender studies, international studies, social justice, society and environment and community health science.

Three Required Core Seminars

The following two courses must be taken during the first year following entrance to the program:

- SSCI 5013 - Philosophical Problems in the Social Sciences and Humanities
(Offered spring only)
- SSCI 5020 - Elements of Social Thought
(Offered fall only)

The third required course should be taken later in the program when students are ready to write a proposal for the thesis or project:

- SSCI 5023 - Research Perspectives in Social Science
(Offered spring only)

Total: 9 Hours

Electives

Additionally, students must complete a total of 21-24 semester hours comprising a coherent selection of courses from a variety of disciplines. All courses for the self-structured portion of the program must be selected with the approval of one of the MSS program directors.

A total of two independent study courses and two 4000-level undergraduate courses taken while enrolled in the program may count toward the degree. All independent study contracts must be approved by one of the program directors. The remaining course work must be 5000/6000-level courses offered through various departments.

Students completing a project take 24 hours of electives, while thesis students complete 21 hours of electives.

Total: 21-24 Hours

Thesis or Project

In order to proceed with a thesis or project, all students must submit a proposal approved by three faculty members (and approved by one of the program directors in cases where one of the directors is not serving on the committee). Students must also pass an oral comprehensive exam to graduate. Total hours required are: 3 hours of project and 6 hours of thesis.

- SSCI 6950 - Master's Thesis
- SSCI 6960 - Master's Project or Report

Total: 3-6 Hours

Degree Total: 36 Hours

SOCIOLOGY MA

► Graduate School Rules apply to this program

Program Requirements

Two plans of study are available for students. Both options require a minimum of 36 hours. A thesis is required for the thesis option, and a project and internship are required for the nonthesis option.

Required Courses

Core courses are required for all graduate students, regardless of plan. Students who are officially admitted to the program are required to follow a sequential plan. SOCY 5000 must be taken in the first fall semester. Students must take SOCY 5014 before taking SOCY 5015. Similarly, SOCY 5024 must be taken before SOCY 5183. Students must earn a *B* or better in all core courses.

- SOCY 5000 - Professional Seminar: Sociological Inquiry
- SOCY 5014 - Classical Sociological Theory
- SOCY 5015 - Contemporary Sociological Theory
- SOCY 5024 - Seminar: Research Methods I
- SOCY 5183 - Seminar: Quantitative Data Analysis

Total: 15 Hours

PLANS OF STUDY

Students must also choose **one** of the following options:

Thesis Option Requirements

Core course requirements	15 Hours
Five elective courses	15 Hours
Master's thesis	6 Hours total required

- SOCY 5955 - Master's Thesis

Thesis Option Total: 36 Hours

Nonthesis Option Requirements

Core course requirements	15 Hours
Five elective courses	15 Hours
Internship	3 Hours
Master's project	3 Hours
<ul style="list-style-type: none">• SOCY 5964 - Master's Report	

Nonthesis Option Total: 36 Hours

Elective Credit Requirements (15 semester hours for both options)

Students can take an unlimited number of sociology graduate (5000-level) seminars to fulfill their 15 elective semester hours, or a combination of the following:

- Independent study: maximum 6 semester hours
- Graduate level courses in other departments: maximum 6 semester hours
- Internship: maximum 3 semester hours

For further information about the Department of Sociology or the MA program, visit the Sociology website.

SPANISH MA

- ▶ Graduate School Rules apply to this program

The CU Denver modern languages faculty offers a Spanish master's degree program that is an alternative to the exclusively literary studies that traditionally lead to doctoral programs. By integrating language, literature and cultural studies with ancillary work in other disciplines, the degree provides a broader expertise that will lead to or enhance careers in teaching, government, social services, business and international trade. Students will tailor the program to their specific interests and needs by developing a topical focus and including courses from outside the Department of Modern Languages, through which they may develop a secondary emphasis that can be incorporated in a thesis project.

Requirements for Admission

In addition to the general admission requirements of the Graduate School, the Spanish MA program requires:

- an undergraduate GPA of at least 2.5, with a GPA of at least 3.0 in Spanish courses
- a bachelor's degree in Spanish is not required, although all candidates must demonstrate Spanish oral and written proficiency at the advanced level, as defined by the American Council on the Teaching of Foreign Languages
- two copies of all college transcripts

- three letters of recommendation
- a statement of the applicant's purpose in pursuing the degree, in Spanish; any gaps, weaknesses or special circumstances affecting an applicant's academic record should be addressed in the statement of purpose portion of the application
- a TOEFL score higher than 550 for students whose previous academic degree was completed in a non-English-speaking country

In special circumstances, the department may modify its admission standards.

Program Requirements

Candidates in Spanish must satisfy the general requirements of the Graduate School as outlined in this catalog and will be required to complete 33 hours of course work distributed with respect to one of the following two options:

Thesis option (course work + thesis):

- SPAN 5000 - Introduction to Graduate Studies in Spanish
3 semester hours
Literature/culture and linguistics, including at least 6 hours in literature/culture and 6 hours in linguistics:
15 semester hours
Courses outside the Department of Modern Languages, as approved by advisor: **6 semester hours**
Elective, as approved by advisor: **3 semester hours**
Thesis preparation and writing: **6 semester hours**
- SPAN 5950 - Master's Thesis

Thesis Option Total: 33 Hours

Nonthesis option (course work):

- SPAN 5000 - Introduction to Graduate Studies in Spanish
3 semester hours
Literature/culture and linguistics, including at least 6 hours in literature/culture and 6 hours in linguistics:
18 semester hours
Courses outside the Department of Modern Languages, as approved by advisor: **6 semester hours**
Electives as approved by advisor (may include another course outside the Department of Modern Languages): **6 semester hours**

Nonthesis Option Total: 33 Hours

Notes:

1. No more than one undergraduate course (3 semester hours) may be applied toward the MA degree and then only in an ancillary field outside the Department of Modern Languages.

2. Students choosing the nonthesis option may elect to take three courses (9 semester hours) outside the department.

Financial Aid

The department offers a limited number of teaching assistantships for graduate students on a semester-by-semester basis. Appointment is competitive and is typically based on a student's academic credentials. Contact the department for details. For information on grants, federal work-study programs, scholarships and loans, contact the Office of Financial Aid (303-556-2886).

For further information concerning the master's degree in Spanish at CU Denver, direct inquiries to the graduate advisor.

SPECIAL EDUCATION MA

Special Education

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: www.ucdenver.edu/education

[Special Education Program Overview](#)

The special education program within the initial professional teacher education division offers a special education generalist license and a special education endorsement as well as a master of arts degree in special education. All special education program options foster the development of critical reflection, inquiry about teaching and learning, as well as the breadth and depth in content knowledge necessary to work effectively in elementary and secondary classrooms. The program faculty promote the ability of teacher candidates to meet the needs of an increasingly diverse population of K–12 learners, as well as to participate productively in and lead school renewal.

The faculty in the program in special education value collaborative relationships between general and special educators, so we offer our teacher candidates the option of pursuing a dual endorsement in both general and special education to offer our teacher candidates the option of pursuing a dual endorsement in both general and special education.

[Special Education Program Distinctions](#)

[Special Education Licensing Pathways](#)

To be a licensed as a special education generalist for grades ages 5-21, a teacher candidate must hold a bachelor's degree from a four-year accepted institution of higher education, have completed the plan of study from one of the program options for the preparation of special education generalist, have passed

the state special education assessment and have demonstrated all required state and national standards.

Program options for the special education generalist include: 1) initial licensure as a special education generalist; 2) dual licensure in either elementary or secondary education and as a special education generalist; and, 3) for those who already hold a Colorado teaching license, an added endorsement, which is also fully online. There is also an option to count these courses towards a masters in special education which will require an additional 12 semester hours of face to face course work and portfolio.

The time needed to complete the various special education generalist program options varies based on the needs of teacher candidates. In addition to traditional on-campus offerings, a wide selection of courses are available in online formats. During the academic year, core special education courses are scheduled in late afternoons and evenings to avoid conflict with teaching responsibilities.

Professional Development Schools

While in the licensure portion of the program, teacher candidates work in a partner school one to four days per week, depending on the internship. University courses are closely interrelated with the four internship experiences in which teacher candidates gradually assume responsibility for teaching. Special education teacher candidates engage in a series of four internships from the beginning of the program to the end of the program. Dual teacher candidates engage in two internships that result in a general education license at the elementary or secondary level and then two special education internships and additional course work; leading to an endorsement in special education. The partner schools are located in several Denver metropolitan districts with most serving large populations of low-income and/or minority students, as well as a sizeable number of students for whom English is a second language and students with special needs. Each partner school is supported by a site professor from the university one day per week and by a master teacher, called a site coordinator.

Assessment

In 2000, Senate Bill 154 required all Colorado teacher education institutions to become performance based. PBA stands for performance based assessment. PBAs are created that correspond to many of the teacher education courses and concurrent practice in the series of internships. In doing so, knowledge can be evaluated as a result of coursework and performance in schools simultaneously. As teacher candidates progress through the program, they will be introduced to Performance Based Assessments (PBAs) and will be guided and supported in both course work and internships. Students seeking dual licensure are responsible for four additional PBAs associated with their second endorsement in special education.

The PBAs are:

1. Literacy Instruction & Assessment (elementary and secondary versions)
2. Mathematics Instruction & Assessment (elementary)
3. Subject Matter Content (secondary)
4. Student Profile
5. Classroom Management

6. Teacher Work Sample (TWS)
7. Internship Performance Rubric (used at the end of each internship)

The four additional PBAs that all teacher candidates in the special education program are expected to proficiently complete include:

1. Assessment
2. Collaboration & Positive Behavior Supports
3. Literacy Instruction for Students with Identified Special Needs
4. The Individualized Education Program (I.E.P.) Process

Passing the PLACE special education generalist examination prior to the final internship is also required before a candidate is eligible for a provisional special education generalist teaching license in Colorado. Dual candidates must also pass state content knowledge exams prior to admission.

Programs of Study

Due to the complex nature of state mandated influences of teacher preparation courses and constantly evaluated the program to meet student's needs, please refer to the most current version of the Special Education Handbook for academic requirements for this program.

Requirements for Admission

The program conducts admissions each semester. Summer admission deadlines are January 15 and February 15; fall admission is March 15 and April 15. Spring admission deadlines are August 15 and September 15.

Teacher Education Information Sessions

All prospective teacher candidates are strongly encouraged to attend an information session before applying to the program. Information sessions are held twice a month lasting approximately 60-90 minutes. Advisors will be available to provide prospective students transcript reviews and pre-admission advising. To more effectively facilitate this process, please bring copies of all transcripts with you. A calendar of upcoming information sessions can be viewed on the CU Denver website. Go to www.ucdenver.edu/education and click on "Information Session" to reserve a space.

Teacher Education Program Requirements

- Applicants to the UCTE program must hold at least a bachelor's degree with a minimum undergraduate cumulative GPA of 2.75 for admission.
- Graduate candidates with a GPA less than 2.75 are required to take the GRE, with a combined score of 1000 on the verbal and quantitative sections; or the Miller Analogies Test, with an average score of 400–600, before consideration for admittance.
- All elementary education candidates must have a liberal arts major or equivalent content courses that provide a broad background of knowledge. *
- All secondary education candidates must have a major or major equivalent of at least 30 semester hours in their desired teaching field. *

- Copy of passing official scores for PLACE or PRAXIS II.
- A complete application on file that can be obtained at information sessions, online or through the Student Services Center.

*This is determined through transcript evaluations at information sessions.

URBAN AND REGIONAL PLANNING MURP

Curriculum

Our curriculum balances a strong, comprehensive set of core courses with a self-directed path through a wide range of elective choices.

Unique Program Features

Integrated throughout our program are four distinguishing features:

Self-Directed Curriculum:

In our program, students have the ability to craft an education suited to their career goals and personal interests. Beyond the required core curriculum, students may choose any combination of elective courses, whether oriented towards one of our three Program Initiatives, a traditional specialization, or a generalist survey of the planning field.

Experiential Learning:

Throughout our program, students have significant opportunities to gain hands-on planning experience and have direct interaction with Colorado's planning professionals. We use Denver's diverse urban landscape as a real-world classroom for students to experience and analyze the built environment.

Physical Planning and Design:

We emphasize physical planning and design throughout our curriculum. Housed within the College of Architecture and Planning, we work closely with the College's Architecture, Urban Design, Landscape Architecture, and Historic Preservation programs.

Innovative Planning Technologies:

We integrate innovative planning technologies into many of our program's courses and activities. We capitalize on the Denver region's entrepreneurial spirit and tech-focused economy by providing access to state-of-the-art planning technologies and teaching students how these tools can support the planning process.

Program Initiatives

Our focus is on teaching students how to address critical issues and to solve the complex problems facing cities and regions today. In order for planners to take the lead in the city-building process, they need to understand the breadth of their field and know how to work in cross-disciplinary teams. By structuring our whole program—research, curriculum, faculty and student efforts, etc.—around issue areas, which we call Initiatives, we encourage broad understanding and creative problem-solving, rather than professional silos. The MURP Program's three Initiatives represent issues at the forefront of the planning profession today, and are also topics that are particularly prominent in Denver and Colorado.

Healthy Communities:

The link between human health and the built environment has become a key factor in planning cities and regions. Colorado is known for its physically fit and active adult population, but our vulnerable populations face significant challenges such as childhood obesity, disconnected neighborhoods, and lack of access to healthy food. Colorado has become a national leader in finding ways to plan and design healthier environments, and the MURP Program's Healthy Communities Initiative is part of that effort. We work with partners at the local, state and federal levels, as well as the non-profit, educational and private sectors, to provide students comprehensive and interdisciplinary training in the tools, innovations and policies necessary for creating physically, socially and economically healthy communities.

Urban Revitalization:

After decades of suburbanization, segregated land uses, and automobile-dependent development, the US is now experiencing a resurgence of traditional urbanism and a reorientation toward central cities. Nowhere else is that phenomenon more evident than in Denver, where infill and transit-oriented development, historic preservation, adaptive reuse, and multi-modal transport are transforming the urban landscape. The MURP Program's Urban Revitalization Initiative gives students opportunities to engage with local developers, planners, designers and policymakers to help revive and enhance established cities, retrofit the suburbs, and plan sustainable new developments.

Regional Sustainability:

Climate change, environmental degradation, resource scarcity, and sprawling development present critical challenges to planners worldwide. In the Rocky Mountain West, the impacts are evident in habitat loss, wildfire risk, and conflicts over water and energy resources, among others. The MURP Program's Regional Sustainability Initiative explores ways that Colorado and its neighbors can tackle these issues together. At the metropolitan level, Denver and its adjacent communities already serve as a model for regional planning and cooperation, exemplified by the visionary FasTracks transit program. Our Initiative draws on Denver's success in regional land use, transportation, economic development and resource planning to help students understand how built and natural environments can co-exist more sustainably at various regional scales.

[Program Requirements](#)

Completing the MURP degree requires 54 credit hours, comprised of 36 credits of required "core" courses and 18 credits of elective courses. (Six of the 36 required credit hours represent a self-directed Capstone project or thesis.) Most full-time students complete the program in two years, while other students complete the program at a slower or part-time pace.

New students begin the program of study in the fall semester. Full-time students typically take approximately 12 credit hours per semester; taking more than 15 is generally ill-advised. Students are strongly encouraged to primarily take core courses during their first year of study. With the exception of the studio and capstone courses, most core courses are offered only one semester per year so it is important to pay attention to the scheduling to ensure your desired graduation date.

[Potential Specializations](#)

We encourage students to view their planning education through a fresh perspective aimed at a planning goal or agenda, rather than a "job description." However, we also recognize that some

students may want their MURP degree to focus along a traditional specialization, such as Transportation Planning or Economic Development. To ensure all our students have the educational experience they are seeking, we provide exceptional coverage across many traditional topics of specialization.

Advising

Given the self-directed nature of the MURP program, students are highly encouraged to seek advice on their curriculum path and career direction from an academic advisor. New students are assigned a faculty advisor, but are free to choose their own as they proceed through the program.

Students should work with their advisor to maintain and complete a MURP Program Planning Form. It is a useful tool for planning the student's progress through the program and ensuring that all graduation requirements have been fulfilled.

Advanced Standing

Students with prior education in urban planning may qualify for advanced standing. Up to 9 credits of course waivers may be granted when the prior coursework meets prescribed level, content and quality thresholds. To be awarded advanced standing, the student must complete a waiver form and provide documentation of their prior coursework; all waivers must be approved in writing by the Department Chair.

Core Courses

The MURP Program curriculum includes 10 required “core” courses totaling 36 credit hours. Together, these represent a broad and robust survey of the most critical topics in the planning field. The list below shows the 10 courses, the program year in which the course is intended to be taken, and the credit hours granted.

Year 1 - Fall

- URPL 5000 - Planning History and Theory
- URPL 5010 - Planning Methods
- URPL 5020 - Planning Law and Institutions
- URPL 5030 - The Planning Profession

12 credits

Year 1-Spring

- URPL 5040 - Natural and Built Environments
- URPL 5050 - Urban Development
- URPL 5060 - Planning Workshop

12 credits

Year 2

- URPL 6000 - Planning Project Studio
 - URPL 6900 - Planning Capstone A
- 12 credits**

Elective Courses

MURP students craft a self-directed educational path. Students may choose any combination of courses, whether aligned with one of our three Initiatives, a traditional specialization, or a generalist survey of the planning field. We offer MURP students a broad selection of elective courses within the program. In addition to these courses, numerous other elective courses applicable for MURP credit are available through our allied programs within the College (Architecture, Urban Design, Historic Preservation, and Landscape Architecture) and through cross-listed courses offered by other CU Denver programs, such as Public Affairs, Geography, and Business. Further, students can take up to 6 credit hours of courses entirely outside the MURP program.

Internships and Mentorships

Internships are key elements in the MURP Program's approach to providing students with hands-on, experiential learning. Internships provide the opportunity to see planning professionals in action, which helps students develop a clearer understanding of their own career goals, educational needs, and personal passions. Mentorships provide an opportunity for students to connect personally with a practicing professional for guidance, advice and inspiration.

We strongly encourage students to experience a professional internship and/or mentorship during the course of the MURP Program. Students can receive individualized advising, resume writing and job search skills, as well as help securing internship positions. While the professional experience of an internship is in itself valuable, to receive academic credit for MURP internships, students will participate in regular colloquia, complete writing assignments in which they draw reflectively on their workplace experiences and connect them to their classroom work, and document their contributions to their employer. Three credits of the 54-credit MURP Program may be undertaken through internship work.

Certificate Programs

The College offers an official certificate program in geospatial information science (GIS). The Certificate builds upon the extraordinary depth of the GIS community in Colorado and the interdisciplinary teaching and research occurring at the Facility for Advanced Spatial Technology (FASTLab) at CU Denver.

The GIS certificate requires 18 credit hours of GIS-related coursework; 6 of these may count toward your MURP degree. The GIS certificate enables qualified students to develop highly technical expertise in GIS technology and skills, and is intended for students who wish to work in GIS-specific careers.

Dual Degree Options

As part of encouraging among planners an appreciation for and knowledge of the perspectives and practices of the other disciplines that participate in planning and city-building, we offer several dual degree opportunities, both within the College of Architecture and Planning and with other units across the University of Colorado system. In every instance the total credit requirement of the Dual Degree is considerably less than would be needed if each degree were independently pursued.

Applicants to any dual degree option must apply to and gain separate admission to each degree program. Once admitted, the student cannot graduate from either program until the work is completed for both degrees.

The degrees that may be combined with the Master of Urban and Regional Planning include:

- Master of Architecture (MURP+MARCH)
- Master of Landscape Architecture (MURP+MLA)
- Master of Public Health (MURP+MPH)
- Master of Public Affairs (MURP+MPA)
- Master of Business Administration (MURP+MBA)
- Juris Doctorate (Law Degree) (MURP+JD—in collaboration with the CU Boulder Law School)

URBAN DESIGN MUD

- ▶ Graduate School Rules apply to this program

Program Information: Jeremy Németh or Ann Komara

Telephone: 303-315-1000

Email: jeremy.nemeth@ucdenver.edu or ann.komara@ucdenver.edu

Program Description

The master of urban design (MUD) is an intensive, calendar year, post-professional degree program for students already holding a first professional degree in architecture, landscape architecture or urban and regional planning (e.g., BArch, BLA, MArch, MLA or MCRP/MURP or equivalents). The interdisciplinary program uses Denver as an urban laboratory but the globe as a reference, educating future designers about the unique place the city holds in addressing the critical problems of our time.

The program began in 1969 and counts several hundred alumni practicing around the world. Our student body is extremely diverse, with recent students from Bangladesh, China, Colombia, India, Iran, Japan, Libya and Saudi Arabia. These students join our domestic students to examine contemporary urbanism and design practice through an interdisciplinary, studio-based curriculum taught by a multi-disciplinary faculty. Coursework is capped off by the International Studio held each summer in China's rapidly urbanizing Shanghai-Nanjing corridor or in the dense central neighborhood of Copenhagen, Denmark.

The program is organized around three central themes reinforced by core studios and seminars:

Sustainable Cities

We take a holistic approach to designing the livable city. Since more than half the world's population lives in cities, with that number set to increase to two-thirds by 2030, we must anticipate the ecological impacts of our design decisions. In preparation for a post-carbon era, we address concerns related to climate change, energy usage, public health, food production and resource availability through an integrated approach to the design of urban settlements. Our students re-imagine and re-interpret urban systems - from transportation networks to hydrological systems to zoning codes to social movements - with the goal of creating cities that are at once socially just, economically diverse and ecologically resilient. These challenges are unprecedented and must be urgently addressed: we believe that urban designers are best positioned to meet them head on.

Local to Global

We believe urban designers must recognize the interrelated local and global impacts of their actions and understand the interdisciplinary nature of urban problems. We address design issues at all scales, from the individual public space to the neighborhood, city, region, nation and world. This ecological approach acknowledges that all sites are embedded within larger systems, a concept we engage in all our studios. In the fall and spring, students examine the Denver metropolitan area, a progressive, yet prototypical, urban laboratory experiencing significant growth and development and home to every urban condition imaginable, from dense downtown infill to sprawling edge cities to the New Urbanism-inspired Stapleton airport brownfield redevelopment. The Front Range is a national leader in design and planning innovation, as represented by the multi-billion dollar FasTracks transit project, Denver's groundbreaking new citywide form-based code, Boulder's open space acquisition policies and energy municipalization effort, Arvada's GEOS net-zero energy neighborhood, and Fort Collins' closed-loop brewery-oriented development. Students apply the skills and knowledge gained in their local study in the summer term in a joint studio set in either the Shanghai-Nanjing corridor with faculty and students from the nation's top schools of architecture and design at Tongji University and Southeast University or in the dense urban core of Copenhagen, Denmark with faculty and students at the Danish Institute for Study Abroad (DIS).

Innovations in Practice

We train our students to become critical, reflective professionals with a deep understanding of urban design theory and practice. All our graduates possess knowledge of contemporary urban thinking as well as exceptional technical, verbal and graphic communication skills. Our curriculum is informed by innovations in current practice: we undertake real projects with real clients, and all studios are taught by leading practitioners from the top design firms in the region. Each year, we bring in a renowned practitioner-in-residence to teach a core course, give lectures, and serve as a juror in all MUD studios. To address the most complex social-ecological problems of our time, we see high demand for graduates who possess multiple talents, a broad understanding of urban planning, architecture, landscape, real estate development, and urban politics and economics, and the ability to work not only with design professionals but also engineers, policy makers, environmental scientists and the public. Students take collaborative, multidisciplinary studios with all College of Architecture and Planning students in an environment that more accurately reflects professional practice, with shorter studios, team projects and design charrettes. Importantly, our MUD Internship Program aims to place all incoming students into an internship with the region's top design firms. Participating firms have included: AECOM, Civitas, Design Workshop, Norris Design, RNL Design, OZ Architecture, studioINSITE and Tryba Architects. College units including the Colorado Center for Community Development (CCCD) frequently hire MUD students as

research assistants (RAs) and the departments of Architecture, Landscape Architecture and Planning and Design often hire teaching assistants (TAs) from our incoming MUD students.

Prerequisites

Students are required to hold a first professional degree in architecture, landscape architecture or urban and regional planning (e.g., BArch, BLA, MArch, MLA, MURP/MUP or equivalents).

Admissions

The master of urban design admissions committee accepts applications for fall semester entry. The program does not allow entry to the program in any spring semester. Although the MUD program has a rolling admission process, the priority deadline is March 15. Applications will be reviewed on a space-available basis until June 30.

Pre-professional students can enter the MUD with advanced standing by first earning a professional master's degree in the College of Architecture and Planning. For more information on the MArch+MUD, MLA+MUD or MURP+MUD, visit the college website.

The requirements the admissions committee considers are:

- Evidence of a professional degree (BArch, BLA, MArch, MLA, MURP/MUP or equivalent)
- At least a 3.2 undergraduate or graduate cumulative GPA
- A portfolio (8.5 × 11-inch bound document) that includes:
 - Your statement of purpose (which should include your educational and professional goals)
 - Résumé (which describes your educational and professional background)
 - Examples of student or professional projects
 - A list of courses that you have taken that relate to design and planning
 - A writing sample from previous professional or academic work
 - Graduate Record Exam (GRE) scores if available (not required for admission)
 - A separate statement indicating whether you would like to participate in the MUD Internship Program.

Program Requirements

The requirements for the postprofessional master of urban design (MUD) degree depend on your current standing and educational background. The basic study plan is a 36-semester-hour plan that includes two elective courses. Students obtaining a first professional degree in the University of Colorado Denver College of Architecture and Planning may receive up to 12 semester hours of advanced standing.

Core Courses

The basic study plan is 36 semester hours including these core courses, plus two elective courses (could include an independent study or internship).

- URBN 6610 - Urban Design Studio I

- URBN 6611 - Urban Design Studio II
- URBN 6612 - International Studio
- URBN 6641 - Design Process/Practice
- URBN 6642 - Design Policy/Regulation
- URBN 6651 - Design Practice
- URBN 6652 - Design Seminar

Total: 36 hours

Dual Degree Programs

BIOENGINEERING DUAL MS

- ▶ Graduate School Rules apply to this program.

Master of Science (MS) Dual Degree Program

We offer a dual MBA-MS in bioengineering in partnership with the CU Denver Business School. Please contact either program for more information and advising. Students registered in other MS programs in the University of Colorado system may be able to combine the two degrees; please contact us at bioengineering@ucdenver.edu for more information.

Note: Current CU MD students interested in the MS in bioengineering should contact us for advising.

Bioengineering MD/PhD

- ▶ Graduate School Rules apply to this program.

MD/PhD Degree Program

For students already enrolled or accepted into the Medical Scientist Training Program (MSTP) in the School of Medicine at University of Colorado Anschutz Medical Campus. Degree completion in 7-8 years with highly individualized training pathway and multidisciplinary research dissertation. Please contact us for advising.

BUSINESS ADMINISTRATION/BUSINESS MBA/MS

The Business School also offers MBA/MS dual degree programs for each function of business. The program consists of a minimum of 66 semester hours of graduate work and leads to both an MBA degree and an MS degree, which must be completed within seven years and one semester. See MS program pages for a list of functional areas. Contact a graduate academic advisor for details, 303.315.8200.

BUSINESS ADMINISTRATION/GLOBAL MANAGEMENT MBA/MGM

This unique combined degree is offered in cooperation with the Thunderbird School of Global Management located in Glendale, Arizona, a suburb of Phoenix. Thunderbird has established eight dual programs with universities in the United States. The student applies independently to both schools and, if admitted, earns the MBA from CU Denver and a Master of Global Management degree from Thunderbird. The student begins the program at CU Denver and, after completing 36 semester hours (12 courses) required for the MBA, transfers to the Thunderbird campus and takes a minimum of 30 semester hours (10 courses) for the MGM. When all dual degree requirements are finished, the student is awarded a diploma from each school. For more information about admission to the MBA on the Denver campus, refer to the appropriate section of this chapter. For specifics about the dual MGM application process, call Felicia Welch, the associate director of academic and international services at Thunderbird, 1-800-848-9084.

BUSINESS ADMINISTRATION/MEDICINE MBA/MD

The MBA/MD is for medical students at the University of Colorado School of Medicine who wish to pursue a career in administrative medicine or who seek additional training in administration or business. The program is designed to be completed in five years, at which time both the MD and MBA degrees would be awarded. Candidates for the MBA/MD complete 36 semester hours of course work in the business school and all requirements for the MD.

BUSINESS ADMINISTRATION/URBAN AND REGIONAL PLANNING MBA/MURP

This dual degree enables students to obtain both the Master of Urban and Regional Planning offered by the College of Architecture and Planning and the Master of Business Administration offered by the Business School upon completion of 78 semester hours. The dual degree program is composed of the core curricula in each program plus a set of electives jointly approved by the student's advisors.

BUSINESS/BUSINESS MS/MS

Students may concurrently pursue dual MS degrees in any two fields of business. The program consists of a minimum of 51 semester hours of core course work, which must be completed within a period of seven years and one semester. In addition, candidates for the dual degree must satisfy all common body of knowledge (CBK) and background requirements prescribed for each degree. Waivers may be approved for some of the CBK or background upon transcript evidence of equivalent undergraduate or graduate course work. For more information contact a graduate academic advisor, 303-315-8200.

CHEMISTRY BS/MS

While students are completing a BS degree in chemistry, they may also complete some of the requirements for an MS degree in chemistry under the following guidelines:

- The student must apply and be accepted for participation in the BS/MS program prior to completion of the BS degree and be advised by both the undergraduate and graduate advisors.
- Up to 9 semester hours of graduate-level course work may be taken as an undergraduate and applied toward the MS degree. This course work may not be applied toward the BS degree or ACS certification requirements for the BS degree.
- In addition, up to 3 semester hours of independent study (research) may be applied toward the graduate degree if that research is expanded and continued for a portion of the master's thesis research. This requires approval of the student's graduate research advisor in chemistry, the chemistry graduate program director and the CLAS associate dean for graduate studies.
- The chemistry department will waive the requirement for qualifying examinations in each area of chemistry for which the student has completed the undergraduate sequence of courses and laboratories at the Downtown Campus with grades of *B (3.0)* or better for each course.
- The student must apply for and be admitted to the graduate program in chemistry beginning the semester immediately following completion of the BS degree in chemistry at the Downtown Campus.

This program allows undergraduate students who have begun their research as undergraduates to complete up to 12 semester hours (with approval of the graduate dean) toward the 30 semester hours required for a Plan I MS degree in chemistry while they are still completing their BS degree. This makes it possible for students to complete an MS degree in chemistry in only one year beyond the BS degree in chemistry. Students entering the program through the BS/MS program option must fulfill all of the requirements of the Plan I or Plan II graduate programs.

CRIMINAL JUSTICE BA/MCJ

The dual BA/MCJ program is designed to allow students to work concurrently toward the BA in criminal justice and the master in criminal justice (MCJ). Graduate credit hours earned while enrolled in the BA/MCJ program can be counted toward both the bachelor of arts and master of criminal justice. This program offers high-achieving students the opportunity to complete their undergraduate and graduate degrees in criminal justice in five years.

Admissions Requirements and Process

Interested students should contact their BA academic advisor as early as possible to ensure proper planning for the five year degree.

Eligibility Requirements

Both current CU Denver students and new transfer students are eligible to apply after meeting the following:

- Currently enrolled in the School of Public Affairs as a criminal justice major
- Completed the University of Colorado Denver's undergraduate core curriculum
- Completed 60 semester credit hours
- Completed the following 12 semester credit hours in criminal justice: CRJU 1000 Criminal Justice: An Overview, CRJU 2041 Crime Theory and Causes, CRJU 3100 Criminal Justice Research Methods, and CRJU 3150 Statistics for Criminal Justice (transfer criminal justice courses must have been approved and accepted toward the major).
- Minimum 3.0 cumulative GPA
- Minimum 3.5 cumulative GPA in criminal justice courses
- Completed or scheduled official GRE or LSAT exam

Application Process

Students must apply no later than the semester in which they first earn 20 credits toward the BACJ degree, most likely the second semester of their junior year. For full consideration, students must submit all application materials by Oct. 15 for admission to the following spring semester and by March 15 for admission to the fall semester. The following steps should help in the application process:

1. Plan ahead when scheduling courses through the junior year. All four of the required criminal justice courses listed above and all of the student's core education requirements must be completed by the end of the student's junior year.
2. At the beginning of the semester in which the student is applying to the program, the student should approach a criminal justice faculty member about writing a letter of recommendation. The student should also begin working on a personal statement of purpose. The following guidelines should help with writing the statement.
 - Length: 1 to 2 pages
 - The statement should describe:
 - Applicant's reasons for undertaking graduate study in criminal justice
 - Applicant's future career plans
 - Planned area of concentration within criminal justice
3. By Oct 15 of the fall semester or March 15 of the spring semester the student must submit the following items to the undergraduate coordinator:
 - Personal statement of purpose
 - One letter of recommendation from a faculty member
 - School of Public Affairs' BA/MCJ application form
 - Official GRE or LSAT scores

Admission Criteria

Admission to the BA/MCJ program is competitive. Applicants will be evaluated on the following:

1. Grade point average (overall and in criminal justice course work)
2. Grade trend (improving, consistent, or declining)
3. Total number of credit hours completed

4. Likelihood of success and persistence based from the Statement of Intent and Reference Letter
5. Official GRE or LSAT scores

Students who are not admitted to the BA/MCJ program are eligible to reapply after completing an additional 12 semester credit hours. Students can apply and be considered for admission to the dual BACJ/MCJ program a maximum of two times.

BA/MCJ Program Matriculation

Students must successfully complete (B, or better) a minimum of 3 semester credit hours of graduate criminal justice course work each semester following admission to the BA/MCJ program. A maximum of 18 graduate semester credits can be completed as a BA/MCJ student, for dual credit.

Students must maintain a minimum 3.0 cumulative grade point average for all course work and a 3.0 grade point average for courses in criminal justice.

The School of Public Affairs reserves the right to rescind a BA/MCJ student's admittance to the dual program if at any point the students' grade point average falls below the requirements lists above.

Tuition and Fees

Students will be assessed tuition and fees at the undergraduate rate until the bachelor of arts in criminal justice degree is conferred.

Students will assess tuition and fees at the graduate level upon formal acceptance to the master of criminal justice program.

Program Requirements

General BA/MCJ Degree Program Requirements

- 144 total semester credit hours successfully completed
- 37-38 semester credit hours in the general education core curriculum
- 46-48 semester credit hours in general electives
- 21 semester hours of undergraduate criminal justice course work
- 18 upper-level (3000 or higher) semester credit hours in criminal justice
- 45 total semester hours of upper-division course work (3000 and above)
- Minimum 3.0 CU cumulative grade point average in undergraduate criminal justice courses
- Full acceptance to the Graduate School and the master in criminal justice program
- Minimum 36 semester hours of graduate-level course work (5000 and above)
- Minimum of 30 hours of resident credit; 21 out of the last 30 hours in resident course work
- Minimum of a B (3.0) in each required core MCJ course
- Minimum of 3.0 CU cumulative grade point average in all graduate level courses
- Successful completion of master of criminal justice capstone or thesis
- Fulfillment of all college and major requirements

Degree Confirmation

Students are eligible to receive the BA in criminal justice degree once they have successfully completed 120 semester hours and all CU Denver undergraduate degree requirements. The MCJ will be conferred once the student has completed all requirements of the master of criminal justice degree.

ECONOMICS MA/APPLIED MATHEMATICS MS DUAL DEGREE, WITH A FOCUS IN APPLIED STATISTICS

► Graduate School Rules apply to this program.

Admissions Advisor: Brian Duncan (brian.duncan@ucdenver.edu)

Schedule Advisor: Hani Mansour (Hani.Mansour@ucdenver.edu)

The fields of mathematics and economics are inextricably linked. In economics, mathematics and statistics are used extensively in theory construction, tests of existing theories and discovery of regularities to inform new theories. Economics also gives mathematicians/statisticians new challenges, new outlets and new ideas to incorporate in mathematics. These complementarities have long been recognized and economics graduate students have always been advised to take advanced courses in statistics.

A "dual" degree means that students who complete the program earn two master's degrees: MA in economics and MS in applied mathematics. Students interested in completing the dual degree in economics and applied mathematics must apply separately to each program, meet the admission requirements of each program, and be accepted by each program. If one program accepts a student for the dual degree but the other program does not, then the student may not graduate under the dual degree program. Students may apply to both programs at the same time or apply to the economics program first, and then to the applied math program after their first semester, or vice versa. Both programs must be completed in the same semester to take advantage of the dual degree program. Further information about this program can be obtained from either the Department of Economics or the Math Department.

[Click here for admissions requirements for the MA program in Economics](#)

[Click here for admissions requirements for the MS program in Applied Mathematics](#)

There are an increasing number of economics MA students wishing to obtain graduate training and a degree in statistics. Having an MA degree in economics and an MS degree in Applied Mathematics will make a student highly employable in the job market and provide them an edge in applying for elite PhD programs.

Degree Requirements

The requirements for the dual degree in economics and applied mathematics include completing 21 credit hours in ECON and 21 credit hours in MATH (42 total credit hours).

Students are expected to meet all course prerequisites. ECON 5803 – Mathematical Economics is a prerequisite for ECON 5073 - Microeconomic Theory and ECON 5813 - Econometrics I. This prerequisite requirement is waived for students who are currently admitted to the MS Applied Mathematics program.

A grade of B- or better is required in all courses, with a cumulative grade point average of B (3.0) or above. No course may be taken more than twice.

Core Courses

- ECON 5073 - Microeconomic Theory
- ECON 5083 - Macroeconomic Theory
- ECON 5813 - Econometrics I
- ECON 5823 - Econometrics II
- ECON 6053 - Seminar In Applied Economics
- ECON 6054 - Seminar In Applied Economics II
- MATH 5070 - Applied Analysis
- MATH 5718 - Applied Linear Algebra
- MATH 6330 - Workshop in Statistical Consulting
- MATH 6388 - Advanced Statistical Methods for Research
- MATH 7381 - Mathematical Statistics I
- MATH 7382 - Mathematical Statistics II
- ECON 6073 - Research Seminar

Total: 36 hours

Electives

One 5000 or higher course with a MATH prefix (**3 semester hours**), except MATH 5000-5010, MATH 5017, MATH 5198, and MATH 5250. Contact a graduate advisor in the Math Department for information about Math course requirements.

One 5000 or higher course with an ECON prefix (**3 semester hours**).

Contact a graduate advisor in the Economics Department for information about Econ course requirements.

Total: 6 Hours

Dual Degree Total: 42 Hours

ECONOMICS MA/FINANCE MS DUAL DEGREE

► Graduate School Rules apply to this program

Admissions Advisor: Brian Duncan (brian.duncan@ucdenver.edu)

Schedule Advisor: Hani Mansour (hani.mansour@ucdenver.edu)

For students interested in combining the quantitative skills of an economics degree with the specific applications of a business degree, we offer an MA economics / MS finance dual degree. This 42-semester-hour program is offered jointly with the Business School.

A "dual" degree means that students who complete the program earn two master's degrees: MA in economics and MS in finance. Students interested in completing the dual degree in economics and public administration must apply separately to each program, meet the admission requirements of each program, and be accepted by each program. If one program accepts a student for the dual degree but the other program does not, then the student may not graduate under the dual degree program. Students may apply to both programs at the same time or apply to the economics program first, and then to the finance program after their first semester, or vice versa. Both programs must be completed in the same semester to take advantage of the dual degree program. Further information about this program can be obtained from either the Department of Economics or the Business School.

[Click here for admissions requirements for the MA program in Economics](#)

[Click here for admissions requirements for the MS program in Finance and Risk Management](#)

The dual degree program is intended to create highly-skilled research professionals with considerable econometric skill as well as familiarity with their chosen financial institutions. Given the similarity in course work within the two programs, there can be considerable time savings for the student. Essentially, the program allows students to complete the two programs that separately would require 60 hours of course work with 42 hours of combined course work.

Degree Requirements

The requirements for the dual degree in economics and finance include completing 21 credit hours in ECON and 21 credit hours in FNCE (42 total credit hours)

Students are expected to meet all course prerequisites. A grade of B- or better is required in all courses, with a cumulative grade point average of B (3.0) or above. No course may be taken more than twice.

Core Courses

- ECON 5073 - Microeconomic Theory
- ECON 5083 - Macroeconomic Theory
- ECON 5803 - Mathematical Economics
- ECON 5813 - Econometrics I
- ECON 5823 - Econometrics II
- ECON 6073 - Research Seminar
- BUSN 6640 - Financial Management
- FNCE 6300 - Macroeconomics and Financial Markets
- FNCE 6330 - Investment Management Analysis
- FNCE 6380 - Futures and Options
- **-OR-**
- FNCE 6382 - Survey of Financial and Commodity Derivatives
- **-OR-**

- FNCE 6410 - Real Options and Decisions Under Uncertainty
Total: 30 Hours

Electives

Three 6000 or higher courses with a FNCE prefix (9 semester hours), except FNCE 6290 – Quantitative Methods. Contact a graduate advisor in the Business School for information about Finance course requirements.

One 5000 or higher course with an ECON prefix (3 semester hours). Students are strongly encouraged to take 3 elective hours of ECON 6053/6054 or to meet with an economics graduate advisor to discuss how to otherwise prepare for ECON 6073 - Research Seminar. Contact a graduate advisor in the Economics Department for information about ECON course requirements.

Total: 12 Hours

Dual Degree Total: 42 Hours

ECONOMICS MA/PUBLIC ADMINISTRATION MPA DUAL DEGREE

► Graduate School Rules apply to this program

Admissions Advisor: Brian Duncan (brian.duncan@ucdenver.edu)

Schedule Advisor: Hani Mansour (Hani.Mansour@ucdenver.edu)

The fields of public administration and economics are inextricably linked. Economists provide much of the theory and analytic foundation that administrators use to evaluate and implement policy. Given that the capital of the state of Colorado is in Denver, there is great need for administrators that fully understand methods of program evaluation and have the theoretical background needed to forecast how individuals and institutions will respond to new proposals. Similarly, good theory and practice must take into account how the proposals will be implemented and results interpreted. Both administrators and economists need to be engaged in constructive dialogue for either to be fully effective.

A "dual" degree means that students who complete the program earn two master's degrees: MA in economics and MPA in public administration. Students interested in completing the dual degree in economics and public administration must apply separately to each program, meet the admission requirements of each program, and be accepted by each program. If one program accepts a student for the dual degree but the other program does not, then the student may not graduate under the dual degree program. Students may apply to both programs at the same time or apply to the economics program first, and then to the public administration program after their first semester, or vice versa. Both programs must be completed in the same semester to take advantage of the dual degree program. Further information about this program can be obtained from either the Department of Economics or the School of Public Affairs.

[Click here](#) or admissions requirements for the MA program in Economics

[Click here](#) for admissions requirements for the MPA program in Public Administration

Degree Requirements

The requirements for the dual degree in economics and public administration include completing 21 credit hours in ECON and 27 credit hours in PUAD (48 total credit hours).

Students are expected to meet all course prerequisites. A grade of B- or better is required in all courses, with a cumulative grade point average of B (3.0) or above. No course may be taken more than twice.

Core Courses

- ECON 5073 - Microeconomic Theory
- ECON 5083 - Macroeconomic Theory
- ECON 5803 - Mathematical Economics
- ECON 5813 - Econometrics I
- ECON 5823 - Econometrics II
- PUAD 5001 - Introduction to Public Administration and Public Service
- PUAD 5002 - Organizational Management and Behavior
- PUAD 5003 - Research and Analytic Methods
- -OR- PUAD 5004 - Economics and Public Finance
- PUAD 5005 - The Policy Process and Democracy
- PUAD 5006 - Leadership and Professional Ethics
- ECON 6073 - Research Seminar
- -OR- PUAD 5361 - Capstone Seminar

Total: 33 hours

Electives

If the student elects to take the capstone course ECON 6073 – Research Seminar

One 5000 or higher course with an ECON prefix (3 semester hours).

Students are strongly encouraged to take 3 elective hours of ECON 6053/6054 or to meet with an economics graduate advisor to discuss how to otherwise prepare for ECON 6073 - Research Seminar.

Four 5000 or higher course with a PUAD prefix (12 semester hours).

If the student elects to take the capstone course PUAD 5361 – Capstone Seminar

Two 5000 or higher course with an ECON prefix (6 semester hours).

Three 5000 or higher course with a PUAD prefix (9 semester hours).

Contact a graduate advisor in the Economics Department for information about Econ course requirements.

Contact a graduate advisor in the School of Public Affairs for information about public administration course requirements.

Total: 15 hours

Dual Degree Total: 48 Hours

FINANCE/ECONOMICS MS/MA

Students may concurrently pursue an MA in Economics offered by the College of Liberal Arts and Sciences and the MS in Finance offered by the Business School. Students must complete 27 semester hours of a combination core, 15 semester hours of combination electives and 3 semester hours of a 5000- or 6000-level economics elective. Students apply to each program separately and admission into one of the programs does not guarantee admissions into the second program.

POLITICAL SCIENCE MA / MASTER OF BUSINESS ADMINISTRATION (MBA) DUAL DEGREE

► Graduate School Rules apply to this program.

In the 21st century, the fields of business administration and political science intersect, in that sustainable business development requires an understanding of the political environment, while political theory and practice must address the role of the business community in economic development. Providing students with both the business foundation and the political knowledge enhances their ability to succeed in our ever-changing political world.

The CU Denver Master of Arts in Political Science (MA) degree offers an in-depth understanding of the political environment, locally, nationally and globally, emphasizing the development of academic and practical skills in key areas of the discipline, and centering on the major fields of American politics, comparative politics, international relations, political theory and public policy. The CU Denver Master of Business Administration (MBA) degree provides a strong foundation in business knowledge in such areas as organizing teams, developing marketing plans, using data analysis and technology in decision making, economics, financial management and strategic planning. The MBA develops skills required for competent and responsible administration of an enterprise viewed in its entirety, within its social, political and economic environment.

The Dual Master's Degree in Political Science (MA) and Business Administration (MBA) is designed for students whose interests overlap business and politics or business and international affairs. This program is jointly sponsored by the Department of Political Science of the College of Liberal Arts and Sciences and the Business School. This program enables students to simultaneously earn an MA in Political Science with an MBA.

The dual degree program provides a more comprehensive education to the next generation of professionals in the non-profit sector, corporate arena and governmental organizations. Dual degree students are able to complete both degree programs in less time, and with fewer total credit hours (66 for both), than if both degrees were pursued separately (48+33 = 81). The program keeps the core of

each program intact, including some electives from both programs, and enables students to choose two additional electives from either business or political science to best suit their career and personal goals. Furthermore, the interactions between the students enrich the students in both programs, as well as the organizations that employ them.

Admission Requirements

Students must apply separately to, meet the admission requirements of, and be accepted by each program. It is possible for students currently admitted to one program to learn about the dual degree and choose to apply after admission to the other program.

GPA Requirements

Students must maintain a cumulative GPA of 3.0 or higher across all courses that are applied to the dual degree. Any political science course in which a student receives a final grade lower than *B-* cannot be counted toward the total credits for the dual degree. Any business course in which a student receives a final grade lower than *C* cannot be counted toward the total credits for the dual degree. All graduate courses will be included in the cumulative GPA.

Transfer Credits

No more than 9 semester hours of business credits from an AACSB Business School with a grade of *B* or better and no more than 6 semester hours of political science credits may be transferred into this dual degree program. The Business School will evaluate transfer hours in business and the Political Science Department will evaluate transfer hours in political science.

Graduation

Students must complete all the requirements for both programs before they apply to graduate, and must apply to graduate in the same term for both programs.

Degree Requirements

MBA Core (30 Hours)

- BUSN 6520 - Leading Individuals and Teams
- BUSN 6530 - Data Analysis for Managers
- BUSN 6540 - Legal and Ethical Environment of Business
- BUSN 6550 - Analyzing and Interpreting Accounting Information
- BUSN 6560 - Marketing Management
- BUSN 6610 - Information Systems Management and Strategy
- BUSN 6620 - Applied Economics for Managers
- BUSN 6630 - Management of Operations
- BUSN 6640 - Financial Management
- BUSN 6710 - Strategic Management

International Elective (3 Hours)

Any course numbered 6000 or higher with the INTB prefix

or ENTP 6826 - International Entrepreneurship

or any graduate-level business course that is cross-listed with an INTB prefix. Travel study offered by the Business School will also apply.

Political Science Core (18-21 Hours)

- PSCI 5000 - State of the Discipline
- PSCI 5468 - Research Methods in Political Science
- Graduate Seminar in American Politics subfield
- Graduate Seminar in Comparative or International Politics subfield
- Graduate Seminar in Political Theory subfield

- PSCI 5950 - Master's Thesis (6 credits) **OR**
- PSCI 5960 - Master's Project (3 credits)

Political Science Electives (6-9 Hours)

PSCI graduate seminars [must complete 6 hours if thesis, or 9 hours if project (from Political Science Core)]

Free Electives (6 Hours)

Courses must be from either the Business School or Political Science department, meeting the descriptions below. A combination of both is also acceptable.

Business Free Electives: Any course numbered 6800 or higher with a BUSN prefix or any course numbered 6000 or higher with a prefix of ACCT, DSCI, ENTP, FNCE, HLTH, INTB, ISMG, MGMT OR MKTG.

Political Science Electives: Any course numbered 5000 or higher with a PSCI prefix.

PUBLIC ADMINISTRATION MPA/JD

The School of Public Affairs and the University of Colorado at Boulder School of Law jointly sponsor a dual degree program leading to the simultaneous granting of the master of public administration (MPA) and juris doctor (JD) degrees. The program may be of particular interest to students who wish to practice law within the public sector, obtain a senior administrative post, represent public-sector clients, represent private-sector clients in transactions with government agencies and institutions and/or develop scholarly expertise in the relationship between law and public administration.

Interested persons must separately apply to and be admitted by both SPA and the School of Law. Upon admission, students may begin full-time study at either SPA or the School of Law; however, law study

must be initiated no later than the beginning of the second year of enrollment in the program, and the first year of law study must be taken in its entirety and exclusive of nonlaw course work.

Through the choice of electives, students may develop a limited substantive specialization within the study of law and public administration. The dual degree program is structured to allow for 12 semester hours from the law school to be accepted as electives in the 36-semester-hour MPA program, and 12 semester hours from SPA to be accepted into the law school's 89-semester-hour JD program. Students are thus simultaneously awarded both degrees with a cumulative total of 101 semester hours; the program therefore allows students to complete all dual degree requirements in approximately four years of full-time study. Students without prior public-sector work experience will be required to complete an internship in an appropriate governmental institution or closely related nonprofit organization.

PUBLIC ADMINISTRATION/CRIMINAL JUSTICE MPA/MCJ

The fields of public administration and criminal justice are closely connected. While the MPA is a generalist degree designed to prepare graduates for a variety of positions in administration and policy analysis, criminal justice studies prepare graduates to work in public service organizations within the substantive policy area. By providing an opportunity for students to complete both a generalist master's degree as well as a specialist master's degree, graduates will be equipped not only with administrative skills applicable to a number of public service settings, but also will have deep knowledge of work that pertains to criminal justice settings.

Admission

Students pursuing the joint degree program must apply separately to each of the programs and be admitted to each of the programs. If one program accepts student for the dual degree but the other program does not, then the student will not be accepted for the dual degree. It is possible for students currently admitted to one program to learn about the dual degree and choose to apply after admission to the other.

The MPA and MCJ Program Directors serve as advisors for this program. Interested applicants should consult one of the Program Directors before applying.

Course Requirements

Students enrolled in the dual degree program must complete a minimum of 24 credit hours in each of the two programs (not counting Internship or Field Study if required). Because each program requires 36 (not counting Internship or Field Study) credit hours, the student will be able to complete 48 hours and earn two degrees. This means that the student can earn two degrees by completing 66% of the credit hours that would be required if the student were pursuing each degree separately.

Interested students should contact the School of Public Affairs directly for specific information on course sequencing and requirements.

PUBLIC ADMINISTRATION/ECONOMICS MPA/MA

The fields of public administration and economics are inextricably linked. Economists provide much of the theory and analytic foundation that administrators use to evaluate and implement policy. Given that the capitol of Colorado is in Denver, there is great need for administrators that fully understand methods of program evaluation and have the theoretical background needed to forecast how individuals and institutions will respond to new proposals. Similarly, good theory and practice must take into account how the proposals will be implemented and results interpreted. Both administrators and economists need to be engaged in constructive dialogue for either to be fully effective.

Therefore the Department of Economics of the College of Liberal Arts and Sciences and the School of Public Affairs jointly sponsor a dual degree program. This program enables students to simultaneously earn an MA degree in economics with a master of public administration (MPA).

The dual degree program provides students to opportunity to take the core of both programs and choose electives that suit their career and personal goals best. Electives in one program are allowed to count as an elective in the other. The net result is that while both degrees separately require 66 hours, the dual degree program provides a more comprehensive and effective education in 48 hours or 73 percent of the dual degree total.

[Degree Requirements](#)

[Admission into both programs](#)

Students must apply separately to each program, meet the admission requirements of each program and be accepted by each program. If one program accepts a student for the dual degree but the other program does not, then the student will not be accepted for the dual degree. It is possible for students currently admitted to one program to learn about the dual degree and choose to apply after admission to either economics or SPA.

[Other policies](#)

Minimum Grade for Graduation

Students must maintain a GPA of 3.0 or higher across all courses that are applied to the dual degree. Students who fail to maintain a GPA of 3.00 will be placed on probation for a semester, after which they may be dropped from the dual degree program if the GPA is not increased to 3.0 or above. Additionally, any core course in which a student receives a final grade lower than B- cannot be counted toward the total credits required for the dual degree; in such a case, the student must retake the course.

Capstone Advising

All students are required to complete a capstone paper and obtain the signatures of three graduate faculty. Every dual degree student, regardless of the capstone course they choose (ECON 6073 or PUAD 5361) must select a committee composed of faculty from both programs.

Course Credit Transfers from Other Universities

No more than 6 hours may be transferred, and both SPA and economics program directors must approve any transfers.

Sample Plan of Study for the MPA/MA Economics

Total: 48 semester hours with 21 in economics and 27 in public administration

Core

(33 semester hours)

A grade of B- or better is required in all core courses, with a B average overall. No public administration course may be taken a third time.

- ECON 5073 - Microeconomic Theory
 - ECON 5083 - Macroeconomic Theory
 - ECON 5803 - Mathematical Economics
 - ECON 5813 - Econometrics I
 - ECON 5823 - Econometrics II
 - PUAD 5001 - Introduction to Public Administration and Public Service
 - PUAD 5002 - Organizational Management and Behavior
 - PUAD 5003 - Research and Analytic Methods
 - or
 - PUAD 5004 - Economics and Public Finance
 - PUAD 5005 - The Policy Process and Democracy
 - PUAD 5006 - Leadership and Professional Ethics
 - ECON 6073 - Research Seminar
 - or
 - PUAD 5361 - Capstone Seminar
- To be completed after all other core courses or with instructor and advisor consent.

Electives

(15 semester hours)

If the student takes PUAD 5361, then they are required to take 6 semester hours of economics electives and 9 semester hours of electives from SPA labeled 5000 or above.

If the student takes ECON 6073, then they are required to take 3 semester hours of economics electives and 12 semester hours of electives from SPA labeled 5000 or above.

PUBLIC ADMINISTRATION/PUBLIC HEALTH MPA/MPH

Applying for the Program

Students need to apply to the School of Public Health with a separate application. Students must be admitted to both programs to participate in the dual degree.

Course Requirements

To complete the dual degree, students take all the core courses in each program, 9 elective credits from the School of Public Affairs, 9 elective credits from the School of Public Health, and the School of Public

Health's capstone course requirements. Total credits required: 60 semester credit hours. For more information, see the course map provided on the School of Public Affairs website; spa.ucdenver.edu.

When to Enroll

Students should indicate intention to complete the dual degree upon application to the School of Public Affairs and simultaneously complete the application for the School of Public Health. SPA does not have a limit on the number of students who can enroll. Students already enrolled in the School of Public Affairs student may begin the SPH application right away (see the SPH for application deadlines), while taking MPA classes. It is best to get started on the application process right away, so that advising matches graduation goals.

Advising

Once admitted to the dual degree program, students have an advisor from each school.

PUBLIC ADMINISTRATION/URBAN AND REGIONAL PLANNING MPA/MURP

Background and Purpose

Public administration and urban and regional planning have many aspects in common. To provide students with an excellent education through understanding of both professions, the School of Public Affairs and the College of Architecture and Planning have developed a dual degree program. Students can obtain both master of public administration (MPA) and master of urban and regional planning (MURP) degrees with a minimum of 63 semester hours, as compared to a total of 87 semester hours to complete both degrees independently.

To be eligible for the dual MPA/MURP degree program, students must be admitted to each of the two schools under their respective admission procedures and standards and indicate an intention to pursue the dual degree. Students will take all the core courses and the capstone required for an MPA, plus the core and concentration requirements necessary for the MURP.

Students in each school must apply to the other school before completing 18 hours in their respective programs. Upon admission to both schools, students will be assigned an advisor in each school to work out a specific degree plan.

Core and Elective Requirements

Core Courses (42 semester hours)

MURP

- URPL 5000 - Planning History and Theory
- URPL 6220 - Advanced Research Techniques
- URPL 6215 - Analyzing the Built Environment

- URPL 5020 - Planning Law and Institutions
- URPL 6000 - Planning Project Studio

Total: 18 Hours

MPA

- PUAD 5001 - Introduction to Public Administration and Public Service
- PUAD 5002 - Organizational Management and Behavior
- PUAD 5004 - Economics and Public Finance
- PUAD 5005 - The Policy Process and Democracy
- PUAD 5006 - Leadership and Professional Ethics

Total: 15 Hours

Take one of two

- PUAD 5003 - Research and Analytic Methods
- URPL 5040 - Natural and Built Environments

Total: 3 Hours

Additional Course Work (21 semester hours)

MURP

12 hours if URPL 5510 elected, or 15 hours if PUAD 5003 elected. Courses are to be selected with MURP advisor's approval.

- URPL 5040 - Natural and Built Environments
- PUAD 5003 - Research and Analytic Methods

Total: 12-15 Hours

MPA

6 hours if PUAD 5003 elected, or 9 hours if URPL 5510 elected.

- PUAD 5003 - Research and Analytic Methods
- URPL 5040 - Natural and Built Environments

Total: 6-9 Hours

Practicum

- PUAD 5361 - Capstone Seminar (3 hours required)

Total: 3 Hours (required)

Electives

Take one of the following or another option with MPA advisor's approval (3 hours):

- PUAD 5250 - Intergovernmental Management
- PUAD 5410 - Administrative Law
- PUAD 5440 - Negotiation and Conflict Resolution
- PUAD 5502 - Public Financial Management and Policy
- PUAD 5503 - Governmental Budgeting
- PUAD 5540 - Organization Development
- PUAD 5625 - Local Government Management
- PUAD 5626 - Local Government Politics and Policy
- PUAD 5631 - Seminar in Environmental Politics and Policy
- PUAD 5632 - Seminar in Environmental Management

Total: 3 Hours

PUBLIC AFFAIRS BA/MPA

The BA/MPA degree program offered by the College of Liberal Arts and Sciences and the School of Public Affairs provides students the opportunity to complete both a bachelor's degree and master's degree in five years rather than the usual six years. The program combines undergraduate general education and major studies with a specialized curriculum in public affairs and strives to develop intellectual and professional skills in a coordinated manner. The five year BA/MPA program decreases the time and number of semester hours required to earn both degrees by allowing students to count graduate level courses in the School of Public Affairs toward the bachelor's degree requirements. The program is designed to give students an opportunity to prepare for professional positions and advancement with federal, state or local governments, nonprofits or private sector firms concerned or involved with public affairs.

Admissions Requirements and Recommendations

Interested students should contact their CLAS advisor and the School of Public Affairs' MPA director as early as possible to ensure proper planning for the five year degree. To qualify, students must have a 3.5 or higher GPA in CLAS.

Students may apply to the program during the semester in which they will successfully complete 90 semester hours, and should have most of their general education and major requirements completed by this time. Students must complete all the required MPA application materials for the School of Public Affairs.

Program Requirements

Students must fulfill all the requirements for graduation for CLAS:

- Total of 120 hours (includes hours in public affairs)
- 30 hours in the core curriculum

- 30-48 hours to satisfy major requirements
- Writing proficiency (1 – 7 hours)
- Mathematics proficiency (0 – 3 hours)
- Level III foreign language (0 – 13 hours)
- It is highly recommended that students complete a course in American government, statistics and economics before applying to the MPA program

Students must maintain a 3.5 GPA in CLAS course work.

Students may complete a maximum of 18 semester hours of SPA graduate course work while classified as an undergraduate student.

Students must fulfill all the requirements for graduation from SPA:

- Total of 36–39 semester hours in public affairs
- Six core courses (PUAD 5001 – PUAD 5006)
- Five elective courses at the graduate level (5000 and 6000 level courses)
- Nine of the 15 elective semester hours must be PUAD courses
- An internship (3 hours) is required from those who do not have significant work experience in the field
- Successful completion of the capstone course taken in a semester AFTER all core courses are completed. A thesis option is available. Interested students should contact their SPA faculty advisor.

Students must maintain a 3.0 or higher GPA in public affairs course work.

Program Options

BA/MPA students may choose from any CLAS major.

BA/MPA students may choose to do a general MPA or select a MPA concentration in local government, nonprofit management, environmental policy, emergency management and homeland security or domestic violence.

Degree Confirmation

Students are eligible to receive a bachelor's degree once they have successfully completed 120 semester hours and all CLAS requirements. The BA/MPA will be conferred once the student has completed all requirements of the master of public administration degree, including at least 36 hours of graduate level course work.

Doctoral Programs

APPLIED MATHEMATICS, PHD

► Graduate School Rules apply to this program.

Program Requirements

The Department of Mathematical and Statistical Sciences offers a PhD in applied mathematics. The degree is designed to give candidates a contemporary, comprehensive education in applied

mathematics and to provide research opportunities in the special fields of graph theory, combinatorics, optimization, applied probability, computational mathematics, and applied statistics.

There are six phases of the PhD program. A candidate must fulfill course requirements, pass the preliminary examinations, establish a PhD committee, meet the academic residency requirement, pass the comprehensive examination and write and defend a dissertation.

- Students must complete 42 semester hours of non-thesis course work at the graduate level (up to 30 hours of this course work may be transferred in, including courses taken as part of a master's degree). In addition, 30 hours of dissertation credit must be taken. The following courses are required as part of the formal course work: the math clinic and three readings courses (1 semester hour each). Students must also satisfy a **breadth requirement** by completing a total of six graduate math courses from among several areas of mathematics, with no more than three of these courses from any one area. A 3.25 GPA must be maintained throughout all course work. [The following MATH courses will NOT count toward a graduate degree: MATH 5000-5009, 5010, 5012-5015, 5017, 5198, 5250 and 5830.]
- The preliminary examinations are designed to determine that students who intend to pursue the PhD program are qualified to do so. These four-hour written examinations are in the areas of applied analysis and applied linear algebra. Students must pass these exams by the start of their fourth semester.
- Six semesters of full-time scholarly work are required, as specified in the rules of the Graduate School . All students are strongly advised to spend at least one year doing full-time course work or research with no outside employment.
- The comprehensive examination is taken after completion of the preliminary exams, completion of at least three semesters of residency, and upon completion of all nonthesis coursework. The exam is designed to determine mastery of graduate-level mathematics and the ability to embark on dissertation research. It consists of a six-hour written examination and an oral follow-up examination. Students must pass the comprehensive exam within 4 years of admission. Within six months after passing the comprehensive examination, the candidate must present a dissertation proposal to their dissertation committee.
- Each student must write and defend a dissertation containing original contributions and evidence of significant scholarship. The dissertation defense is public and must be given before an examining committee approved by the Graduate School.

For more detailed information about the applied mathematics PhD, see www.math.ucdenver.edu/phd.

BIOENGINEERING PHD

► Graduate School Rules apply to this program.

DOCTOR OF PHILOSOPHY (PHD) DEGREE PROGRAM

The PhD is offered to students with an undergraduate or master's degree in engineering or the life sciences. Students complete the degree in three to five years with a highly individualized training pathway. All PhD students complete a dissertation, which may have an industry component.

The department also offers an MD/PhD degree program for students already enrolled or accepted into the Medical Scientist Training Program (MSTP) in the CU School of Medicine. Degree completion in 7-8 years with highly individualized training pathway and multidisciplinary research dissertation.

Visit our website (ucdenver.edu/bioengineering) or contact us at bioengineering@ucdenver.edu for more information.

CIVIL ENGINEERING PHD

► Graduate School Rules apply to this program

The PhD degree in civil engineering is offered through a coordinated program with University of Colorado Boulder.

Specialty Areas for Degrees:

- Environmental and Sustainability Engineering
- Geotechnical Engineering
- Hydrologic and Hydraulic Engineering
- Structural Engineering
- Transportation Engineering
- Civil Engineering Systems

Note: The multidisciplinary engineering and applied science PhD is also offered through the Department of Civil Engineering.

What is civil engineering systems?

The doctoral program in civil engineering systems has different rules than the five other traditional doctoral tracks in order to facilitate more interdisciplinary research. This doctoral track can be the degree that would follow a master's of engineering.

Additional Doctoral Admissions Requirements

In addition to the admissions requirements listed for master's students, doctoral applicants need to have the support of a faculty advisor before they are admitted. Once doctoral students are approved by the graduate admissions committee, their application must be reviewed again by the Department of Civil, Environmental and Architectural Engineering at CU Boulder as the programs are jointly administered. Prospective PhD students should contact the Department of Civil Engineering at CU Denver to inquire about application requirements and to obtain the "Rules and Policies for the Coordinated PhD Program."

Requests for applications for graduate study in civil engineering should be addressed to

CU Denver Department of Civil Engineering
Campus Box 113
P.O. Box 173364

Denver, CO 80217-3364

COMPUTER SCIENCE AND INFORMATION SYSTEMS PHD

► Graduate School Rules apply to this program

Program co-directors: Gita Alaghband (CSE) and Mike Mannino (Business School)

Website: engineering.ucdenver.edu/CSISPhD

The Department of Computer Science and Engineering (CSE) and the Business School offer a joint doctor of philosophy degree program in computer science and information systems (CSIS). The program targets students with a master's-level education in either computer science, information systems or related disciplines, although highly qualified students with undergraduate degrees may also apply. The program provides research training that combines computer science and information systems along with strong industry interaction. Students completing the joint PhD program may qualify for academic positions, industrial research positions and senior consulting positions. The specific goals of the program complement these general goals:

- create a pool of graduates with CSIS research training who are qualified for academic and nonacademic careers
- meet student demand for advanced training in CSIS with accommodations for full-time and part-time students
- promote interdisciplinary research between CSE and the Business School
- enhance technology transfer between CSIS academic units and Front Range technology businesses through joint research, student internships, faculty externships and committee participation

Advisor

Upon entering the program, each student chooses an advisor to provide mentoring and guidance throughout the program and work with the student to prepare a program of study. Requests to change advisors must be approved by the program co-directors, and this happens in very rare circumstances.

Doctoral Committee

The advisor and four other members form a doctoral committee. To foster interdisciplinary work, you may have your doctoral research co-supervised by two faculty members. At least one co-supervisor must be a full-time current graduate faculty member in the CSE department or Business School. The committee must contain at least one faculty member from the CSE department and at least one from the Business School. At least one committee member is from outside of the CSE department and the information systems faculty.

Program Components

Plan of Study

A list of course work and other requirements for the degree should be prepared with the advisor and then submitted to the co-directors for approval. The successful completion of all work indicated on the plan of study is an important prerequisite for the conferring of the degree. A plan of study should be submitted for approval by the end of the first semester of the program. The current plan of study should be updated before the beginning of the second year of the program and submitted for reapproval by the co-directors.

Preliminary Exam

According to Graduate School Rules, students are required to demonstrate their basic knowledge and preparation toward more advanced doctoral level work. For more information visit the PhD CSIS website at engineering.ucdenver.edu/CSISPhD

Comprehensive Exam

Students will submit a paper to fulfill the graduate school's comprehensive exam requirement. The paper should describe an area of research including literature review, problem definition, and possible methodologies/models to study a significant problem in computer science or information systems. The paper will be evaluated by a committee of three faculty members. An oral presentation of the paper will be open to the entire CSIS faculty. The committee may adopt additional guidelines to evaluate the paper and presentation. According to graduate school rules, the comprehensive exam must be completed by the end of the fourth year in the program. In addition to these requirements, the comprehensive exam must meet the other graduate school requirements.

Dissertation Proposal

A student's doctoral committee can require a dissertation proposal after the student completes the comprehensive exam. The doctoral committee may consider the quality and level of detail in the comprehensive paper and other factors in determining the need for a student to prepare a dissertation proposal. If the doctoral committee requires a dissertation proposal, the student must prepare a proposal that will be evaluated by the doctoral committee.

Dissertation Completion

Once the dissertation proposal is approved, each student prepares and submits a dissertation. The dissertation is defended before the doctoral committee in a public meeting. Final approval for the dissertation is given by a vote of the dissertation committee after the public defense.

Graduation

Upon completion of all degree requirements including the dissertation defense, the student receives the degree of doctor of philosophy. Students applying through CSE receive the PhD from the College of Engineering and Applied Science, while students applying through information systems receive the PhD from the Business School.

COMPUTER SCIENCE AND INFORMATION SYSTEMS PHD (BUSINESS SCHOOL)

- ▶ Graduate School Rules apply to this program.

Program Components

Plan of Study

A list of course work and other requirements for the degree should be prepared with the advisor and submitted to the program co-directors for approval. The successful completion of all work indicated on the plan of study is an important prerequisite for the conferring of the degree. A plan of study should be submitted for approval by the end of the first semester of the program. The current plan of study should be updated before the beginning of the second year of the program and submitted for reapproval to the co-directors.

Preliminary Exam

According to Graduate School rules, students are required to demonstrate their basic knowledge and preparation toward more advanced doctoral level work. For more information visit the CSIS program website.

Comprehensive Exam

Students will submit a paper to fulfill the graduate school's comprehensive exam requirement. The paper should describe an area of research including literature review, problem definition and possible methodologies/models to study a significant problem in computer science or information systems. The paper will be evaluated by a committee of three faculty members. An oral presentation of the paper will be open to the entire CSIS faculty. The committee may adopt additional guidelines to evaluate the paper and presentation. According to graduate school rules, the comprehensive exam must be completed by the end of the fourth year in the program. In addition to these requirements, the comprehensive exam must meet the other graduate school requirements.

Dissertation Proposal

As the first phase of the dissertation, each student should prepare a proposal that will be evaluated by the doctoral committee. A proposal should be ready for review at least one semester before the expected completion date of the degree. The proposal is submitted for review and approval by the doctoral committee. An oral presentation of the dissertation proposal before the doctoral committee is required for approval. An approved proposal is then submitted to the co-directors of the program for final approval.

University-Level Instructional Training

During the program, each student will obtain training for university-level instruction. This requirement can be fulfilled by working with a faculty member as a teaching assistant, attending university-level teacher training or teaching a university-level class. Students who plan a university career will be encouraged to teach one or more courses and participate in training. When teaching or working as a teaching assistant, a student will be compensated according to standard university salaries.

Dissertation Completion

Following completion of the approval of the dissertation proposal, each student prepares and then submits a dissertation. The dissertation is defended before the doctoral committee in a public meeting. Final approval for the dissertation is given by a vote of the dissertation committee after the public defense of the dissertation.

Graduation

Upon completion of all degree requirements, including the dissertation defense, the student receives the degree of doctor of philosophy. Students applying through the CSE receive the PhD from the College of Engineering and Applied Science, while students applying through the information systems program receive the PhD from the Business School.

DESIGN AND PLANNING PHD

► Graduate School Rules apply to this program

Program Director: Osman Attmann

Telephone: 303-315-0032

Email: o.attmann@ucdenver.edu

Overview

The PhD in Design and Planning at the University of Colorado is a research-oriented degree offered by the College of Architecture and Planning (CAP) at the University of Colorado Denver. Initiated in 1997, the program is dedicated to the education of future architects, landscape architects, and urban planners who are intellectual leaders, and who have a critical understanding of the social, political, and global conditions that influence their profession.

It is the intent of the program to prepare students to excel in the planning and design of built environments through the incorporation of intellectual, analytical, and integrative aspects of the involved professions. Within this context, students and faculty seek to creatively shape the built environment and understand it in relation to institutional, political, economic, social, and natural environments.

Admission to the program is competitive and based on merit and available funded projects in the program. Excellent academic performance, references, and GRE scores are prerequisites. In the first two years of residence, students take courses to satisfy the requirements of a major and a minor field of study and the core requirement of the program, as well as additional electives.

The minimum residency requirement is four semesters, not including summer semesters. The first major step in their progress through the program is the completion of the course work required by the candidate's selected major and minor fields of study. The second major step is the completion of the comprehensive examinations in the selected major and minor fields of study.

After satisfying program requirements, students move on to preparing a thesis topic and research proposal which is presented and defended in a public event. With the successful defense of the thesis topic and research proposal, students are admitted to candidacy. Finally, the completed thesis is defended in a public examination involving external examiners in addition to the members of the committee. Upon successful completion of the thesis defense the program recommends the awarding of the PhD degree.

One of the strengths of the College of Architecture and Planning PhD program is that students can take advantage of resources in all departments and fields in the College and elsewhere in the university. The program is a unique, joint program in which students may choose to focus in Architecture, Planning, or Landscape Architecture, or work in any combination of these disciplines. Interdisciplinary study and cross-disciplinary inquiry occur in a congenial work environment, drawing upon a wealth of faculty and resources in a range of campus units. The main mission of the program is to provide a foundation for scholarship in planning and design drawing from scientific, critical, historical, and creative modes of inquiry.

The PhD degree in Planning and Design is appropriate for those seeking careers in research and teaching or in roles in government or professional consultation, all of which require a research specialization. So far, over 40 graduates of the program have gone on to faculty positions at universities in the United States and elsewhere, post-doctoral work, and into private consulting, non-profit organizations, and the federal government.

Admission Requirements

Prerequisites

Applicants admitted to the PhD Program normally will have completed the requirements for the Master of Architecture, Master of Planning, Master of Landscape Architecture, or a related master's degree program. Students from allied fields are also encouraged to apply. Field specialization and background are open. However, students will preferably have completed a program in planning or a design-related field, such as:

- Architecture
- Architectural Engineering
- City and Regional Planning
- Landscape Architecture
- Urban Design
- Environmental Studies

GPA, GRE and TOEFL Scores

Consistent with the University requirements, applications are evaluated based on Grade Point Average (GPA) scores, Graduate Record of Examination (GRE) scores, and the Test of English as a Foreign Language (TOEFL) scores (where applicable). All exams must have been taken within a year before applying to the program:

- Academic achievement as evidenced by an undergraduate grade point average of 3.0 (on a 4.0 scale) or better, and a graduate grade point average of 3.5 or better.
- The program looks for GRE scores of 158 or better on each of verbal and quantitative reasoning tests and for a minimum of a 4.00 score on analytical writing, unless a student's record documents substantial professional or scholarly achievement as evidence of exceptional ability.
- Applicants whose native language is not English must take either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) exam, or have a graduate degree from a university in the U.S. or another English-speaking country. The minimum TOEFL score required for acceptance by the University of Colorado at Denver is 80 or higher on the TOEFL (sub-scores of 20 in Reading, Listening, and Speaking, and 24 in Writing) or 6.5 on the IELTS (sub-scores of 5.5 in each area). However, the Ph.D. program typically does not accept a student with a score lower than 85 on the TOEFL and 6.8 on the IELTS.

Application Checklist

The following documents must be submitted before an application will be considered:

- Application Forms - Apply online!
- Application Fee
- Three Letters of Recommendation
- Examples of previous research and written works
- Official transcripts from all previously attended institutions of higher learning
- Statement of Personal and Professional Goals
- Scores of Test of English as a Foreign Language (TOEFL) for non-U.S. residents whose native language is other than English
- Graduate Record Examination (GRE) score
- Financial Statement (for non-U.S. residents/citizens)

Program Requirements

Overview

Successful completion of the PhD program requires fulfilling course requirements, passing the comprehensive examinations, preparing and defending a dissertation proposal, and undertaking research, writing and defending a dissertation. This is a multi-year process that involves a close mentoring relationship with the student's advisor. The Checklist that follows summarizes the major requirements of the program.

A student's program of study must include:

- at least 12 credit hours of PhD Program core classes,
- 15 credit hours of study in a Major field, and
- 9 hours in a Minor field.

The Major and Minor requirements are minimums; the particular field of study may require additional work.

Based on these and other requirements, students shall complete a minimum of 36 credit hours in their

Major and Minor fields, and PhD Program core requirements prior to advancement to candidacy. This is the equivalent of four semesters (two years) of coursework.

Students must maintain a 3.0 GPA in all their coursework. A grade of less than B in any PhD Program requirement (Core, Major and Minor) will not be accepted as meeting those requirements. For Program Core courses, the student must retake the course. A Program Core course may only be retaken once. The student will be terminated from the program if a grade less than B is received more than once in a PhD Program Core course.

In addition, students must pass a comprehensive exam as well as write and defend a dissertation proposal and dissertation.

Residency and Enrollment Requirements

The minimum enrollment requirement at CU Denver for doctoral students is six semesters of full time scholarly work beyond the attainment of a bachelor's degree. Two semesters of enrollment credit may be allowed for an earned Master's degree from another institution however, at least four semesters of credit must be earned for work performed while enrolled at CU Denver.

The doctoral program requires a minimum of two years of residency (not fewer than four semesters enrolled in a minimum of six credit hours each, excluding summer) devoted to coursework and other preparation for advancement to doctoral candidacy status. Ordinarily, research for the dissertation will also be completed while in residence. After that time, special arrangements can be made with the CAP PhD Committee if substantial work needs to be performed elsewhere.

Students must complete the comprehensive examinations and dissertation proposal within four years from the beginning of their first semester in which they are enrolled as a PhD student at University of Colorado Denver. In addition, University of Colorado Denver requires that all degree requirements be completed within eight years of matriculation.

Active Status

To remain actively enrolled, students must register for six credit hours or more each academic semester (excluding summer) until they become a doctoral candidate. Students who are not so registered are automatically withdrawn from the University of Colorado Denver and must apply for readmission to the program. The readmission decision will depend on the student's academic record and progress toward the degree.

Doctoral students must register for a minimum of one hour of dissertation credit in the term of graduation. If all requirements for graduation, including submission of the final approved dissertation, have been completed prior to the last day of registration, and the student was registered for the preceding term, the student may apply for a waiver of the enrollment requirement.

Advising and Committees

Overview

Each student entering the program will have a PhD advisor. Students wishing to change their Advisor should do so during their first year. All appointments of advisors must be approved by the PhD Program Director. Students wishing to change their Advisor after the first year must petition the PhD Program Director for approval.

The Advisor

The advisor guides the student through the completion of the course requirements, the preparation for the comprehensive examinations, the dissertation proposal, and the dissertation. The advisor must have a doctoral degree and be a tenured/tenure-track member of the CAP PhD program.

Dissertation Advisory Committee

The Dissertation Advisory Committee provides guidance for the investigated dissertation topic, comprehensive examination, dissertation, and the final dissertation examination.

This committee includes at least three faculty members: the Advisor and two additional members. The members must have a PhD degree and at least one member must be a full-time faculty of CAP. For the comprehensive examination, at least one member represents the student's major field of study, and at least one member represents the minor field of study.

Membership of this committee may change if the student's interests and needs change. Any changes should be developed in consultation with the student's advisor, and must be approved by the PhD Program Director.

Final Dissertation Examination Committee

This committee consists of a minimum of five members, including the Advisor, the Dissertation Advisory Committee for the dissertation, and at least two additional external members, with at least one from outside the University of Colorado Denver. External members must be full time faculty members in a degree-granting institution and must have PhD degrees.

Special Circumstances

If the advisor leaves the faculty of CAP before the comprehensive exam and/or thesis topic is approved, the PhD Program Director will work with the student to identify a new advisor for the committee.

If the advisor leaves the faculty of CAP after the comprehensive exam and/or thesis topic is approved, and both the advisor and the student wish to continue in the advising relationship, there will be no change of advisor. The advisor may be appointed as adjunct faculty in the School, in order to recognize his or her continuing role, with approval of the PhD Program Director.

If a member of the dissertation committee other than the advisor is unable to continue in this role, for any reason, the advisor will work with the student to identify a new member for the committee. Upon accepting to serve in this role, the new member of the committee must sign on the dissertation topic and dissertation proposal documents as they were previously approved.

Typical Course of Study

FIRST YEAR

Students develop their degree plan, take six credit hours of the required Core Curriculum, complete additional courses in their specialty area, and any prerequisite courses.

SECOND YEAR

Students take the remaining core courses, continue to take electives in their minor and specialty areas, begin literature surveys and reviews, and prepare for their comprehensive exam.

THIRD YEAR

Students complete their specialization papers, prepare a dissertation proposal, complete literature review, and take the comprehensive exam.

FOURTH/FIFTH YEAR

Fourth and fifth years are spent researching and writing the dissertation.

PhD Degree Time Limit: Eight Year Completion Requirement

University of Colorado Denver requires that doctoral students, whether enrolled full time or part time, must complete all degree requirements within eight years of matriculation. Students who fail to complete the degree in this eight-year period are subject to termination from the Graduate School upon the recommendation of the program director and concurrence of the Dean. For a student to continue beyond the time limit, the program director must petition the Dean for an extension and include:

1. reasons why the program faculty believes the student should be allowed to continue in the program and
2. an anticipated timeline for completion of the degree.

Approved leaves of absence do not automatically extend the time limits for earning a degree, but they may be used as a reason to request an extension if needed.

For more information on the PhD in Design and Planning, visit the College of Architecture and Planning website.

EDUCATIONAL STUDIES AND RESEARCH PHD

► Graduate School Rules apply to this program

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/Doctorate/Pages/PhD.aspx>

The PhD in educational studies and research links an intensive research-based course of study with a content area in order to prepare candidates to assume positions in institutions of higher education or research-based organizations. Successful applicants will be paired with a faculty mentor with whom the student will engage in research and developing content expertise over time.

Students complete a plan of study that includes at least 45 semester hours of course work (including all required core courses) and 30 semester hours of dissertation credits. Depending on a student's background experiences and coursework, additional courses may be required in order to adequately build a deep repertoire of content knowledge and skills. The student's faculty advisor and program committee are responsible for making this determination.

Overview of Course Work:

This degree program consists of a minimum of 75 credit hours. Total credits may vary in order for a student's academic preparation to be fully developed for future career opportunities. Students complete 45 credit hours in three core areas: 1) foundations of equitable teaching and learning; 2) research; and, 3) a specified concentration area. The final 30 credits are completed through dissertation credits.

Foundations: Equity and Diversity, Learning, Epistemology, and Teaching in Higher Education - 4 Courses; 12 Semester Hours

Research Methods – 6 Courses; 18 Semester Hours

*Concentration Area – 5 Courses; 15 Semester Hours***

Dissertation: 30 semester hours total

**Doctoral students will complete a series of courses/experiences in a specified concentration area. Content domains that align to prospective positions in institutions of higher education will be the basis for concentration areas. We define a concentration area as a line of courses that leads to increasing subject matter expertise. Concentration areas are designed to help students focus on a defined discipline or content area in preparation for professional roles as researchers and faculty members.

Following, we list the current areas of concentration in which students can be admitted. These areas may change over time as they are tied to faculty research and externally funded grant projects.

Administrative Leadership and Policy. This concentration serves as key area for those concerned about leadership in schools and a key focus for research by scholars in higher education. A crucial assumption the underlies this concentration area is that school leadership makes the difference in how schools succeed in improving learning outcomes for all students, but we are only beginning to scratch the surface in understanding why leadership is successful when it is, what the interactions are between effective leadership and effective teaching, and their collective impact on learning outcomes at all levels in schools.

Early Childhood Special Education/Early Childhood Education. The goal of this concentration area is to introduce students to issues and practices in early childhood special education/early childhood education and to prepare students to provide leadership to improve outcomes for all children including children with disabilities across early childhood settings. Students will obtain the skills and knowledge of evidence-based practices needed to meet state and national leadership needs within institutions of higher education to address issues in ECE/ECSE. Graduates will: conduct rigorous research related to culturally responsive, evidence-based practices; translate research into practice, thus expanding the use of evidence-based practice in the field; and, create, evaluate, and improve pre-service teacher education programs in ECE and ECSE.

Math Education. Students and faculty in this concentration area focus on teacher learning and professional development experiences. Specifically, projects investigate the ways that particular interventions used in professional development for mathematics teachers impacts their content knowledge and pedagogical practices in their classrooms. Work in this area is framed by a situative perspective of learning and incorporates mixed methods to answer questions around the ways particular interventions support teacher and student learning. Video data is prominent in both the design of professional development interventions as well as a major data source for analyses. Analytic methods vary based on the research question and grain size.

Science Education. The goal of this area is to prepare students to explore, understand, and think critically about the nature of science and science education from a largely research-oriented perspective. Students may elect to focus on environmental science education as an area of specialization within this concentration area through electives and discipline- specific research agendas.

Urban Ecologies. This concentration area brings together several faculty members in interdisciplinary study of education in urban ecologies. Participating faculty members are aligned with the interdisciplinary concentration area as a whole, rather than specific threads or foci. The philosophical assumptions underlying work in this concentration area are: 1) Cultural groups are not monolithic, 2) Urban life and learning, including Pre-K-20 education, complex phenomena that benefit from the multiple lenses offered by multi-disciplinarity, and 3) Trans-nationalism characterizes the cultural experiences and political/economic realities of many communities in cities and contributes to the hybrid identities of residents. These assumptions contribute to a conceptual frame for investigating diversity within the city that is not focused on specific groups and is concerned with the influence of globalization on communities in general within the city. Experiences of and issues confronting different cultural and ethno-linguistic groups will be the key content of this concentration area.

ENGINEERING AND APPLIED SCIENCE PHD

Graduate School Rules apply to this program

The multidisciplinary Engineering and Applied Science Doctor of Philosophy degree program is offered by the College of Engineering and Applied Science and consists of a primary and secondary concentration. Applicants apply and enter the program through one of four departments, called the host department, which is chosen based on the applicant's intended primary concentration of study. The four departments that serve as host departments are:

- Civil Engineering
- Computer Science and Engineering
- Electrical Engineering
- Mechanical Engineering

Each host department offers several concentrations. A list of concentrations can be found on each department's website. Go to engineering.ucdenver.edu to learn more.

The required secondary concentration can be chosen from any remaining department within the college, including the Department of Bioengineering. The secondary concentration may also be chosen from another CU Denver school or college. A student chooses his/her secondary concentration with the help of a faculty advisor after entering the program.

Requirements for Admission

Requirements for admission to the Engineering and Applied Science PhD program can be found under the Degree Programs link on each host department's website.

- Civil Engineering (engineering.ucdenver.edu/civil)
- Computer Science and Engineering (engineering.ucdenver.edu/cse)
- Electrical Engineering (engineering.ucdenver.edu/electrical)
- Mechanical Engineering (engineering.ucdenver.edu/mechanical)

Degree Requirements

The minimum degree requirements consist of 30 semester hours of course work in the primary and secondary areas of concentration, as well as 30 semester hours of research/dissertation credit. Each candidate for the degree is expected to take a preliminary examination by the end of the second year. After successful completion of this exam, the student is required to take the comprehensive examination and the doctoral dissertation defense examination. Additional requirements are outlined in the Rules and Regulations document that each student signs after being admitted to the program. Each student must also satisfy the degree requirements of the CU Denver Graduate School.

HEALTH AND BEHAVIORAL SCIENCES PhD

- ▶ Graduate School Rules apply to this program

Requirements for Admission

A master's or equivalent graduate degree is required for admission to the PhD program. In addition, we encourage prior graduate training in the areas noted below. Students applying without prerequisites may be admitted, but will be required to complete appropriate courses before being permitted to complete the core curriculum.

In addition to the general admission requirements of the Graduate School, the specific admission requirements for the PhD in health and behavioral sciences are as follows:

1. Knowledge from prior course work or vocational experience at the equivalent of college senior or graduate level in each of the following areas.

Social or behavioral sciences (15 semester hours minimum): knowledge of essential facts and concepts concerning the relationship among individuals and society, social organization, individual psychology and the relationship among culture, belief and behavior. This could be satisfied by course work in psychology, sociology and anthropology.

Human biology or physiology (6 semester hours minimum): familiarity with the functioning of the human body in health and disease states, including an understanding of cellular and organ system processes; an appreciation of evolutionary theory and the mechanisms by which evolution operates on both cellular and population levels; and an understanding of the interplay between the evolution of disease and host response. This could be satisfied by course work in human biology, physiology, pathophysiology or biological anthropology.

Statistics (3 semester hours minimum): prior course work and current familiarity with statistics including probability theory, parametric and nonparametric methods and acquaintance with basic multivariate techniques.

Epidemiology (3 semester hours minimum): prior course work at the advanced undergraduate or graduate level with the basic concepts and methods of epidemiology, including measures of risk, mortality, distribution of disease, role of bias and confounders and study design.

2. Demonstrated academic excellence as evidenced by an undergraduate GPA of 3.25 (out of a possible 4.0 points) or better, a graduate GPA of 3.5 or better, and scores in the top 30th percentile (averaged) of the GRE. Admission to the program is highly competitive; minimum GPAs and GRE scores for acceptance in any given year may be higher than the minimum levels indicated here.

The applicability of a student's prior course work will be decided by the program executive committee after reviewing the student's transcript and additional materials. If the student does not have the requisite educational background or GPA, the student may be admitted on a conditional or provisional basis and additional course work required in accordance with Graduate School Rules.

Prospective students should not be dissuaded from applying to the program if they do not meet all of the requirements for admission. In some cases, employment experience may be counted toward

meeting a requirement. In other cases, students may be admitted conditionally upon their completion of a list of prerequisite courses that will be established at the time of admission. Students should be sure to address this issue in completing the graduate application by specifying the academic and vocational experience they possess that meets, in part or full, the admission requirements described above.

MASTER'S LEVEL PREPARATION FOR THE DOCTORAL PROGRAM IN HEALTH AND BEHAVIORAL SCIENCES

The program does not currently offer master's-level training in HBSC. Instead, we urge interested applicants to pursue relevant master's degree training in one of the social, behavioral or health sciences disciplines. In addition, we work closely with two master's programs at CU Denver. These are the concentrations in medical anthropology within the anthropology MA program offered by the anthropology department and the master of public health offered by the Colorado School of Public Health. Contact the respective programs for more information on these degree options and our program for how their requirements articulate with those for the health and behavioral sciences PhD.

TO APPLY FOR ADMISSION

At the Denver campus, all graduate applications are now submitted electronically. To begin the application process, go to the online admissions website. If you have any difficulties, call the program assistant at 303-556-4300. The program admits students only for the fall semester, which typically begins in mid- to late August. The deadline for the receipt of all application materials is **February 15** for admission the following August.

Applicants should invest considerable thought and effort in preparing their application. For instance, in the essay (Part II, question six) applicants should provide information on: (a) their academic training and any employment related to public health or health care; (b) their experiences with inter- and multidisciplinary perspectives, and (c) how they envision using their doctoral degree to improve the health status of human populations and individuals. Students should also indicate the kinds of research *foci* that interest them the most.

In addition to the required recommendation form, letters of recommendation are required from at least three individuals in a position to judge the applicant's ability to complete the program. Recommenders may be employers, colleagues or professors; however, the applicant should be sure that the letters address the quality of and aptitude for academic work as well as personal characteristics and qualities.

Financial Aid

There are four kinds of financial aid available: graduate student stipends/fellowships; tuition assistance; research assistantship positions funded by grants to specific program faculty; and the regular package of financial aid (primarily loans) available through the financial aid office.

Newly admitted, out-of-state and students demonstrating outstanding scholastic achievement receive priority when assigning departmental sources of funding. Students interested in research assistantships should contact the individual faculty member with whom they wish to work regarding potential assistantship positions.

All other aid should be requested through the CU Denver Financial Aid Office, North Classroom, 1030, Campus Box 125, P.O. Box 173364, Denver, CO 80217-3364. Telephone: 303-556-2886.

Program Requirements

There are three dimensions to the required curriculum:

- a. A core curriculum that focuses on problem-oriented, interdisciplinary approaches to theory and method
- b. Elective course work intended to provide the student with a solid base from which to launch the dissertation research
- c. Dissertation research and writing

The curriculum is subject to change. What appears below is intended to give students a general idea of the extent, shape and content of the curriculum. Students should check with the program office for up-to-date information on specific course requirements and scheduling.

The Core Curriculum

The core curriculum should be completed by students by the end of their second year of full-time study. It consists of the following series of courses which, together, constitute 29 semester hours:

I. Health and Behavioral Sciences Colloquium

Each fall, the HBSC program will organize a series of presentations by scholars working in the health and behavioral sciences. The presentations provide students with the most current science and theory in the field. Required of all first- and second-year students, who must take at least two times.

- HBSC 7001 - Colloquium Series in the Health and Behavioral Sciences

Total: 2 Hours

II. Theoretical Perspectives in the Health and Behavioral Sciences

This series is designed to give students a thorough background in how the principles of the social and behavioral sciences have been applied to health issues. Topics include: the interplay between structure and agency in creating and maintaining health; social epidemiology; critical theory and social determinants of health; issues affecting Western biomedicine and public health systems; diffusion of healthy behavioral change among populations; social construction of health and illness; health policy and bioethics; social networks; and stress.

- HBSC 7011 - Theoretical Perspectives in Health and Behavioral Science I
- HBSC 7021 - Theory in Health and Behavioral Sciences
- HBSC 7071 - Social and Behavioral Determinants of Health and Disease

Total: 9 Hours

III. Human Ecology and Environmental Adaptation

This course will emphasize the biological/physiological dimensions of human health and disease.

- HBSC 7031 - Human Ecology and Environmental Adaptation

Total: 3 Hours

IV. Research Design and Methods in the Health and Behavioral Sciences

Three HBSC core research design and methods courses, plus one additional advanced methods course of student's choosing. This series covers the philosophy of science and the structure of scientific inquiry, procedures for hypothesis-testing, quantitative and qualitative methodological strategies commonly employed in the field, epidemiology and program evaluation. Students must further develop specialized methodological skills by completing an independent study (HBSC 6840) or taking one additional course in advanced epidemiology, advanced biostatistics, health economics, survey research design or qualitative methods and data analysis. This requirement will be tailored specifically to the student's particular interests by his/her advisor.

- HBSC 7041 - Research Design and Methods in the Health and Behavioral Sciences I
 - HBSC 7051 - Qualitative Research Design and Methods
 - HBSC 7061 - Social Statistics
- One elective course in advanced methods: **3 semester hours**

Total: 12 Hours

V. Applications of the Health and Behavioral Sciences

This course offers students the opportunity to focus on individual research interests with guidance from faculty and input from peers.

- HBSC 7111 - Applications of the Health and Behavioral Sciences

Total: 3 Hours

TOTAL CORE: 29 Hours

Elective Courses

Elective course work together constitutes 6 semester hours, which can be drawn from the large number of offerings in the health and behavioral sciences at CU Denver. Students will be expected to fulfill the necessary prerequisites for taking these courses, and final authority as to whether a student may enroll in the course will rest with the department in which the course is offered.

TOTAL ELECTIVES: 6 Hours

Doctoral Dissertation Research

The doctoral dissertation research topic is chosen by the student. The student is expected to define a research question in health and behavioral science, identify the research strategy to be used for answering the question, conduct the research required and document the project in the form of a

doctoral dissertation. The student will be guided in this process by a doctoral dissertation advisor and the additional members who comprise the student's doctoral dissertation committee (see below). A minimum of 30 semester hours of dissertation work is required. Students must register for a minimum of 5 dissertation credits each semester of their dissertation work. Students may not take more than a year's leave of absence or fail to enroll for semester hours more than three semesters before they are dropped from the program.

Advisors

Upon admission to the program, each student will be assigned a first-year advisor. The student or the faculty will then choose the faculty advisor who will guide the student through the core and elective course work. The faculty advisor may or may not be the chair of the student's dissertation committee. The student selects his or her chair and a minimum of three additional committee members who oversee the student's comprehensive examination and dissertation research.

Formal Review

A formal review of each student's progress will be undertaken at the end of each year of study. Students who are deemed not to be making satisfactory progress will be informed in writing as to the nature and final result of the review before the end of June.

The Dissertation Prospectus and the Comprehensive Examination

Before a student advances to candidacy, she/he must complete a dissertation prospectus and defend it successfully in the context of an oral comprehensive examination. The dissertation prospectus is a complete description of the question or hypothesis that the student wishes to research for the dissertation project, the research design and study techniques and an assessment of the proposed project's contribution to the field. It will include a comprehensive review of the relevant literature. If the student chooses to undertake research in a particular ethnic or cultural community, she/he must also demonstrate sufficient understanding of that setting including adequate knowledge of the language. This prospectus must be approved by the student's advisor prior to scheduling the comprehensive examination.

The comprehensive examination will be an oral format based in part on, but not restricted to, the material presented in the dissertation prospectus. This exam *must* take place before the student's advancement to candidacy and will typically occur by the end of the third year of study. A committee comprising the chair and a minimum of three faculty members will supervise the completion of the dissertation prospectus. This committee will conduct the oral examination and will recommend to the executive committee by a majority vote whether or not the student should be advanced to candidacy.

The Doctoral Dissertation and Final Exam

After advancement to candidacy, the student in consultation with his or her advisor will appoint a dissertation committee comprising the chair and a minimum of three faculty members. The chair and composition of the committee will be subject to approval by the program executive committee. The chair and two other members must have been present at the student's comprehensive examination and will be responsible for overseeing the research and writing of the doctoral dissertation. The committee will review drafts of the dissertation and, when the dissertation is completed to its satisfaction, will conduct the final exam, which will be based on the doctoral dissertation and related materials. The final examination will be open to the public.

Dissertation Total: 30 Hours minimum

INTEGRATIVE AND SYSTEMS BIOLOGY, PHD

- ▶ Graduate School Rules apply to this program.

Director for PhD Program: Michael Greene

Office: Science, 4115

Telephone: 303-556-5610

E-mail: michael.greene@ucdenver.edu

Website: clas.ucdenver.edu/biology/grad.html

Requirements for Admission

Applicants must hold a baccalaureate degree from an accredited college or university, awarded within the preceding ten years. Applicants whose biology degree was awarded more than 10 years prior to entrance to the CU Denver program will be expected to retake or show competence in core areas. Successful applicants generally have earned an overall GPA of 3.2 or better. Students entering the PhD program in Integrative and Systems Biology must have completed a year of general biology course work. Supplementary course work or reading programs may be designed for some students admitted to the program to provide background information of sufficient depth for the program curriculum. The general GRE, transcripts and letters of recommendation are required of all applicants, as well as a completed application to the program.

The PhD program has two tracks: integrative biology and systems biology. For both tracks, applicants to the PhD program should declare an area of specialization that aligns with the research focus of a PhD program faculty member. Faculty expertise can be found under PhD program faculty on the Department of Integrative Biology website. Students are obligated to contact prospective faculty advisors in advance of application to the program to determine if openings are available within the faculty member's research program.

Application deadline is January 15 for both domestic US students and international students. Applications submitted after the deadline date will not be considered. Application to the PhD program is through CU Denver Admissions.

Degree Requirements

All course work taken within the Department of Integrative Biology and applied toward the degree must be at the 5000 level or above. Core courses required for the program include: principles of biological research, pedagogy, problems in integrative and systems biology, biostatistics, directed reading/grant writing, 3 electives, journal club, research, and graduate seminar. A course plan is developed jointly by the student and faculty advisor and is approved by the student's graduate committee. Students are required to maintain a minimum 3.0 GPA throughout the program. In addition to regular meetings

throughout the semester, all students must meet with their faculty advisor at the beginning of each semester to determine course schedules and upcoming deadlines.

In year one of the program, students are required to take a qualifying written exam covering first year course work. In year two of the program, all students are required to form a five-person dissertation committee. A formal research proposal (written and oral) is defended in the second year of the program. In the third year of the program, students take a comprehensive exam, which comprises an original and state-of-field grant proposal followed by an oral defense. In the final year of the program, a dissertation is completed and defended in an open forum. Degrees will not be awarded solely because students finish required course work and achieve other milestones, including passing comprehensive examinations. Graduation is contingent upon students completing a dissertation that is based on original, publishable research, submitting for publication in peer-reviewed journals, and demonstration by the student of a comprehensive understanding of the literature surrounding the chosen dissertation topic.

Stipends for students are provided for all years of the program.

Per Graduate School rules, the minimum enrollment requirement at CU Denver for doctoral students is six (6) semesters of full time scholarly work beyond the attainment of a bachelor's degree. Two (2) semesters of enrollment credit may be allowed for an earned master's degree from another institution; however, at least four (4) semesters of credit must be earned for work performed while enrolled at CU Denver. PhD students are expected to participate in the life of the program by attending colloquia, seminars, orientations and other program activities and by spending time on campus interacting with other students and faculty outside of normal class hours. Students should discuss with their advisors how to fulfill the spirit of this requirement.

Required Courses

- BIOL 6002 - Biology Skills Sets - Pedagogy
- BIOL 5705 - Principles of Biological Research
- BIOL 6764 - Biological Data Analysis
- BIOL 6655 – Seminar

LEADERSHIP FOR EDUCATIONAL EQUITY EDD

► Graduate School Rules apply to this program

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/Doctorate/Pages/EDD.aspx>

Program Overview

Students completing this program earn a Doctorate of Education (EdD) with a major in "Leadership for Educational Equity." Within this major, students also pursue a concentration area in Executive Leadership, Early Childhood Special Education/Early Childhood Education, Mathematics Education, Professional Learning and Technology, Science Education or Urban Ecologies. The EdD program is a practice-based, doctoral level program for professional leadership in P-20 or community-based educational contexts. The EdD prepares leaders within the profession to address complex educational challenges by combining decision-focused, analytic and research skills with a broad-based understanding of systems anchored in principles of equity and access to education.

The goal of the doctor of education (EdD) leadership for educational equity program is to prepare future leaders for social justice and equity in P-20 and community-based education contexts who can effectively translate research into practice, influence policy, use data effectively in decision making and organize individuals and groups to address challenges collaboratively and successfully.

This program reflects a cohort model. Courses will generally be offered in weekend, hybrid (part face-to-face, part online), online and/or summer intensive formats. Students follow their cohort in taking the prescribed course work and experiences for three consecutive years.

Course Work – 54 Semester Hours

- 6 hours in an equity core
- 6 hours in a leadership and organizational performance core
(two, 3 - credit courses)
- 6 hours in learning core
(two, 3 - credit courses)
- 12 hours in one of five concentration areas
(four, 3 - credit courses/experiences)
- 9 hours in research core
(three, 3 - credit courses)
- 15 hours of completion of a capstone Dissertation in Practice

Concentration Areas

Executive Leadership (with ALP or PLP Option): is designed to deepen individuals' skills in policy analysis, development and research; personnel management; finance; accountability systems and evaluation; and community relations. Support individuals who hold or seek to move into senior management positions inside school districts, community colleges, higher education policy or community-based education organizations. Students working in P-12 schools may also choose either an administrator or a principal licensure option. Roles may include that of a director, deputy, superintendent or president.

Early Childhood Special Education/Early Childhood Education: is designed to introduce students to issues and practices in early childhood special education/early childhood education and to prepare students to provide leadership to improve outcomes for children with disabilities across early childhood settings. The program will prepare students who can act effectively as administrators in districts, agencies and programs to improve outcomes of all children, including children with disabilities.

Mathematics Education: students and faculty focus on teacher learning and professional development experiences. Specifically, projects investigate the ways that particular interventions used in professional development for mathematics teachers impacts their content knowledge and pedagogical practices in their classrooms. Work in this area is framed by a situated perspective of learning and incorporates mixed methods to answer questions around the ways particular interventions support teacher and student learning. Video data is prominent in both the design of professional development interventions as well as a major data source for analyses. Analytic methods vary based on the research question and grain size.

Professional Learning and Technology (PLT): this concentration area brings together faculty and students seeking to support working educators in ongoing professional development (PD) and learning activities, helping them become more effective and productive in their jobs. The PLT focus addresses the PD needs of K-12 teachers but also those of higher educators and workplace learners. Applying principles of adult learning, instructional design and change leadership, we use a variety of methods (mentoring, coaching, site-based communities, e-learning resources, workshops etc.) to support professional growth and accountability. The PLT courses in the EdD program prepare you to assume leadership in professional learning programs at all levels (site-based, district- or organization-wide), applying the latest research and best practices of the profession.

Science Education: prepares students to explore, understand, and think critically about the nature of science and science education from a largely research-oriented perspective. Students may elect to focus on environmental science education as an area of specialization within this concentration area through electives and discipline- specific research agendas.

Urban Ecologies: this concentration area brings together several faculty members in interdisciplinary study of education in urban ecologies. Participating faculty members are aligned with the interdisciplinary concentration area as a whole, rather than specific threads or foci. The philosophical assumptions underlying work in this concentration area are: 1) Cultural groups are not monolithic, 2) Urban life and learning, including Pre-K-20 education, complex phenomena that benefit from the multiple lenses offered by multi-disciplinarity, and 3) Trans-nationalism characterizes the cultural experiences and political/economic realities of many communities in cities and contributes to the hybrid identities of residents. These assumptions contribute to a conceptual frame for investigating diversity within the city that is not focused on specific groups and is concerned with the influence of globalization on communities in general within the city. Experiences of and issues confronting different cultural and ethno-linguistic groups will be the key content of this concentration area.

PSYCHOLOGY, CLINICAL HEALTH PSYCHOLOGY PhD

► Graduate School Rules apply to this program

Objectives of the Program

A primary focus of clinical health psychology is the development of effective disease prevention behavioral interventions for populations at high risk for medical problems. A second focus of clinical health psychology is the development of strategies to help individuals who are already ill to manage their disease, increase their ability to collaborate with medical professionals and improve their coping

skills. A clinical health psychologist combines expertise in research on health psychology with training in clinical psychology. Students in this program will be trained to work within the community to use clinical psychological tools and techniques to diagnose and treat mental health conditions, promote health and prevent illness, apply behavioral interventions in the treatment of illness, and improve the health care system. In addition to course work, students acquire expertise in research by completing both a master's thesis and doctoral dissertation. They demonstrate competence in clinical assessment and intervention through several applied practicum experiences, successful passage of the Comprehensive Clinical Competency Examination and successfully completing a pre-doctoral internship. Students can complete the program in five years and have up to eight years to complete the program according to Graduate School Rules.

Admissions

The application deadline is December 15 for the following fall. You are responsible for making sure all materials are in on time. We do not consider late applications. International students should be sure to submit all materials at least two weeks before this deadline (by December 1) so that they arrive at our department on time. Below is condensed information; see <http://www.ucdenver.edu/academics/colleges/CLAS/Departments/psychology/Pages/Psychology.aspx> for complete information.

Admission Requirements:

- BA or BS from an accredited college or university, with a minimum GPA of 3.5 based on all college course work.
- Undergraduate courses in: introductory psychology, psychological statistics, research methods and abnormal psychology. Additional courses in psychology are highly desirable; our admissions committee will also look favorably upon courses in the biological and physical sciences.
- Two official transcripts from each college and university attended.
- Graduate Record Exam (GRE): The GRE General Test (verbal, quantitative, analytical writing) is required. Most students in the program had a combined verbal and quantitative score of at least 1100 on the old GRE scoring system. The GRE should be taken at least six weeks before the December 15 deadline so that the scores arrive on time.
- Three letters of recommendation, at least two of which must be academic references. Applicants provide contact information for their references in the online application. Those individuals are automatically contacted electronically and asked to upload their recommendations directly to your application file.
- The online Graduate Application, including your resume/vita and personal statement.
- Application fee of \$50 (\$75 for international students).

Financial Information

The University of Colorado Denver administers various forms of financial aid for graduate students: fellowships, scholarships and a number of awards from outside agencies. See the Office of Financial Aid for further information. Additionally, the psychology department offers teaching assistantships each year in such courses as introductory psychology, statistics, research methods and human development.

Although we do not guarantee TA positions, we have been able to offer positions to our interested students.

Contingent upon the availability of grant money, faculty may also offer part-time research assistantships to qualified students. The typical RA position involves data collection and analysis, library research, etc. Some computer and statistical skills are usually required. RA positions are less available than TA positions, and they may arise on very short notice.

In-state tuition waivers and additional stipend monies may be available for doctoral students. We do guarantee to pay a full stipend, usually in the form of an assistantship, plus tuition for the first year. We will make every effort to do so for four years.

Note: Neither teaching nor research assistantships confer in-state tuition status.

Degree Requirements

Course Work:

The program requires approximately eight semesters of full-time course work and clinical practica, followed by a year-long internship. Students must maintain a 3.0 grade point average, and no grade below a *B* will count toward the requirements. Students must complete their doctoral dissertations prior to beginning their internship in the 5th year. Students can complete the program in five years and have up to eight years to complete the program, according to Graduate School Rules.

Master's Thesis:

The program has a provision for achieving a master's degree *en route* to obtaining the PhD. In addition to taking PSYC 8200, Teaching Skills Seminar, an MA is required for students to independently teach a course. During their time in the program, students' funding will likely require them to independently teach a course. Students must complete a master's thesis, an empirical research project that makes a significant contribution to the field. Although the thesis must address the student's own original question, the use of archival data and pilot studies is encouraged for this project.

Clinical Practica:

A minimum of 500 face-to-face intervention and assessment hours and 1200 total practicum hours [face-to-face intervention and assessment hours, plus supervision, plus support hours as defined by the Association of Psychology Postdoctoral and Internship Centers (APPIC)] are expected in preparation for application to pre-doctoral internships. Approximately 50% of required practica are conducted in medical settings. Sites for practica training, include the department's own Psychological Services Center and external facilities such as outpatient diabetes clinics, cancer clinics, OB/GYN, HIV/AIDS, end-stage renal disease, pain, and cardiovascular clinics, and in-patient psychiatric facilities. Students are able to select practica based on their personal and professional interests. All field placements are approved in advance by the Coordinator of Clinical Training.

Demonstration of Clinical Competency:

During the second semester of their third year in the program students must demonstrate their clinical competency by completing the Comprehensive Clinical Competency Evaluation (CCCE). The CCCE is designed to facilitate student demonstration of clinical competence at the developmental level of readiness for application to clinical internship. This evaluation is designed to assess the developmentally appropriate broad and general clinical competencies in clinical psychology, and does not necessarily

evaluate clinical health psychology competencies *per se*. The CCCE comprises three sequential components conducted in phases:

1. Applied clinical diagnosis, conceptualization and assessment/treatment plan for a standardized patient.
2. Intervention therapy session with a standardized patient.
3. Oral defense with faculty committee.

Dissertation:

Students must complete a dissertation that involves original empirical work and is distinct from other research projects and publications. The dissertation proposal must be completed and defended prior to making application for the pre-doctoral internship. Students must have a dissertation committee composed of four members of the graduate faculty. When the dissertation is completed to the satisfaction of the primary advisor, the student must orally defend the dissertation to the committee.

Internship:

Students must complete a 12-month, full-time pre-doctoral clinical internship, preferably at an APA-accredited site. This internship is required of all clinical psychologists and is the capstone of clinical training in the doctoral program.

Return to Department of Psychology

Courses

- PSYC 6950 - Master's Thesis
- PSYC 7144 - Advanced Cognition and Emotion
- PSYC 7205 - Advanced Developmental Psychology
- PSYC 7220 - Advanced Biological Bases of Behavior
- PSYC 7262 - Health Psychology I
- PSYC 7350 - Psychotherapy I
- PSYC 7360 - Psychotherapy II
- PSYC 7485 - Diversity in Clinical Psychology
- PSYC 7490 - Topics in Health Psychology Summer Lecture Series
- PSYC 7500 - Advanced Psychopathology
- PSYC 7511 - Historical and Philosophical Foundations of Psychology
- PSYC 7700 - Clinical Research Methods
- PSYC 7710 - Multivariate Statistics
- PSYC 7713 - Advanced Statistics
- PSYC 7730 - Ethics and Professional Issues in Psychology
- PSYC 7910 - Clinical Practicum
- PSYC 8100 - Clinical Behavioral Medicine
- PSYC 8200 - Teaching Skills Workshop
- PSYC 8262 - Health Psychology II
- PSYC 8501 - Primary Care Psychology
- PSYC 8502 - Cardiovascular Health Psychology
- PSYC 8503 - Group Interventions in Health Psychology
- PSYC 8550 - Advanced Social Psychology

- PSYC 8938 - Pre-Doctoral Internship
- PSYC 8990 - Doctoral Dissertation
- PSYC 7410 - Personality Assessment
- PSYC 7420 - Cognitive Assessment
- PSYC 8910 - Clinical Health Practicum

PUBLIC AFFAIRS PHD

► Graduate School Rules apply to this program

Program Director: Tanya Heikkila, PhD

Faculty

Professors:

Lloyd Burton, PhD, University of California, Berkeley
 Mary Dodge, PhD, University of California, Irvine
 Angela Gover, PhD, University of Maryland
 Mary Guy, PhD, University of South Carolina
 Richard Stillman, PhD, Syracuse University
 Paul Stretesky, PhD, Florida State University
 Paul Teske, PhD, Princeton University

Associate Professors:

Brian Gerber, PhD, Stony Brook University
 Jody Fitzpatrick, PhD, University of Texas, Austin
 Allan Wallis, PhD, City University Graduate Center
 Christine Martell, PhD, Indiana University
 Jessica Sowa, PhD, Syracuse University
 Tanya Heikkila, PhD, University of Arizona
 Callie Rennison, PhD, University of Houston
 Chris Weible, PhD, University of California-Davis

Assistant Professors:

Todd Ely, New York University
 Danielle M. Varda, PhD, University of Colorado Denver
 Lonnie Schaible, PhD, Washington State University
 Benoy Jacob, PhD, University of Illinois at Chicago

Research Professor:

Stephen Block, PhD, University of Colorado

Clinical Professor:

Malcolm Goggin, PhD, Stanford University

Professor Emeritus:

John Buechner, PhD, University of Michigan

The School of Public Affairs offers a program of advanced graduate study leading to the doctor of philosophy in public affairs. The program, based on the Denver campus, permits elective work to be taken on any campus of the university if it is part of the approved program of study or degree plan.

The doctoral program was developed to meet the need for people with mastery in the scholarly theory, concepts and research skills of public administration, public policy and public management, and who are able to use such skills in careers of research, teaching and analysis of public-sector challenges. The PhD is designed to prepare students for leadership responsibilities in academia, research and public policy analysis. Accordingly, the PhD stresses the development of theoretical, conceptual and methodological knowledge in public administration, policy and management.

Participants

The doctoral program is primarily designed to serve (1) people who desire to further the field of public policy and public and nonprofit management through teaching and research; (2) scholar-practitioners working in government, private-sector organizations concerned with government and nonprofit organizations; and (3) policy analysts in government, private-sector organizations concerned with government and nonprofit organizations.

Time Required for PhD Degree

The PhD program requires an intense commitment. Most courses and seminars are offered during the late afternoon, in the evenings or on an intensive basis. (Some electives are offered online, but core courses are not.) Anyone starting the PhD program with a master's degree in public administration can expect to take at least three but no more than eight years to complete all of the requirements for the PhD. Any student entering the program with no prior graduate work in public administration, public policy or management should expect additional course requirements.

PhD Admission Requirements

Admission to the program is based on the personal and professional qualifications of the applicant. It is desirable that an applicant have a master's degree in public administration or a closely related field before undertaking doctoral work. Applicants should have a 3.5 GPA or above in master-level course work, as well as GRE scores that are, at a minimum, above the 50th percentile ranking in both the quantitative and verbal sections. Successful applicants will also show the potential for productive careers in scholarship, research and analysis.

Meeting the minimum thresholds listed above does not assure admission. In unusual cases, students who fail to meet the thresholds may be admitted if high academic skills are demonstrated in other ways.

PhD Application Process

Applicants must submit the following items to the SPA office before they can be formally considered for admission. The application deadline is February 1; admitted students will begin in the fall semester.

- application forms
- official transcripts (two copies) from all degree granting institutions
- GRE scores (no more than five years old)
- a resume or vita
- three letters of reference attesting to a candidate's academic promise
- a well-articulated statement of purpose demonstrating an understanding of the research orientation of the degree and a strong motivation and determination to successfully complete the program

In addition, students may also submit samples of research reports or publications.

Applicants whose native language is not English are required to submit TOEFL or IELTS scores. This requirement may be waived for applicants who have completed a baccalaureate or graduate-level degree program at an English-speaking college or university. In addition, applicants whose native language is not English are required to participate in an oral interview to demonstrate English language skills sufficient to succeed in a rigorous American doctoral program.

All application materials will be retained by SPA and will not be returned. A personal meeting with the PhD director or other faculty member is recommended.

Financial Assistance

For excellent candidates, SPA will fund a small number of doctoral research assistantships each year based on financial availability. Students selected will receive a full-tuition waiver as well as a stipend of \$15,000 for the academic year. SPA's goal is to provide such funding for students for at least three years.

Degree Requirements

Course Work

A total of 36 semester hours of course work is required past a master's degree in public administration or a related degree. In some cases, additional prerequisite courses may be required to assure adequate preparation for doctoral studies. All PhD students are required to take a minimum of 6 semester hours of course work in both the fall and spring semesters, until their course work requirements are met, if they wish to maintain their full-time student status.

During their first year of study, all PhD students are required to take the following four doctoral seminars:

- PUAD 8010 - Historical and Comparative Foundations of Public Administration
- PUAD 8020 - Seminar in Public Management
- PUAD 8030 - Seminar in Public Policy
- PUAD 8040 - Seminar In Economic and Institutional Foundations of Public Affairs

Total: 12 Hours

During the next year, doctoral students are required to take the following methods classes:

- PUAD 8050 - Quantitative Methods I
- PUAD 8060 - Seminar On The Conduct Of Empirical Inquiry
- PUAD 8070 - Quantitative Methods II

Total: 9 Hours

Additional Coursework:

In addition to the three methods classes listed above (8050, 8060, and 8070), students must take an approved qualitative methods course of the student's own choosing. Depending on the student's interest, topics might include qualitative methodology, administrative law, geographical information systems, or social network analysis. In addition, all PhD students must complete four elective courses relevant to the student's dissertation plans. With approval of the PhD director, students may apply up to 9 semester hours of graded graduate-level credit taken at other universities toward their elective courses.

Preliminary Exam, Colloquium and Dissertation

In addition to course work, PhD students must pass a preliminary exam in the testing cycle or semester immediately following the completion of their core courses. Students are also required to complete and defend, before a faculty committee, a dissertation that makes a significant contribution to the literature and theory of public administration, management or policy. Prior to starting the dissertation, students must successfully pass a colloquium (comprehensive exam) that demonstrates their preparation for conducting dissertation research. At the colloquium, a doctoral student presents a dissertation proposal to SPA faculty and students, and to his or her dissertation committee.

Students are advanced to candidacy for the PhD once they have completed all required course work and examinations, have successfully presented their research colloquium and have been certified for candidacy by his/her doctoral committee. After students are formally advanced to candidacy, they must register for a total of 30 hours of dissertation research credit to complete the PhD. Each fall and spring semester, students are expected to register for 5 semester hours of dissertation research; if unable to register for at least 5 semester hours, students must request a leave of absence from the PhD program until able to complete the minimum dissertation requirement. Students may take up to two semesters' leave of absence before they are disenrolled from the program. Students then would need to reapply to the program.

Further details on the program can be found in the *Handbook for the Doctor of Philosophy in Public Affairs Program*, available from the SPA office or online at <http://spa.ucdenver.edu>.

Licensure

ADMINISTRATOR LICENSE - EXECUTIVE LEADERSHIP PROGRAM

Administrative Leadership and Policy Studies

Requirements for Principal Licensure, the MA and EdS degrees, and Executive Leadership Administrator Licensure Program

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Web site: www.ucdenver.edu/education/alps

Click on any of the following to go right to that information:

- [Principal Licensure](#)
- [Master of Arts Degree](#)
- [Education Specialist Degree](#)
- [Executive Leadership Administrator Licensure Program](#)
- [EdD Leadership for Educational Equity with Principal or Administrator License](#)

Faculty

For information about faculty in this area, visit www.ucdenver.edu/education/alps.

The primary responsibility of the administrative leadership and policy studies (ALPS) faculty is to prepare leaders for public education in Colorado and the nation. Currently, the principal license is required for people seeking building-level administrative positions in Colorado.

Principal Licensure Program

ALPS offers course work that leads to the initial license for principal. Having earned an initial license, those who have obtained a master's degree and who go on to complete a district sponsored induction program may then be awarded a professional license by the Colorado Department of Education.

ALPS's 32 semester-hour principal licensure program is project-based, requiring students to present evidence of meeting both state and national standards through performance based assessments. A 400-hour clinical-practice experience is integrated throughout the four-semester program.

Students interested in pursuing a 12 semester hour principal license at the doctoral level should instead apply to the EdD Leadership for Educational Equity instead of to the MA or EdS Administrative Leadership & Policy Studies. Melissa – this sentence might need some work, but something like this to keep it simple and then link to the EdD.

Students develop a portfolio during the principal licensure program. Portfolios not finalized by the end of the fourth semester must be completed within the two subsequent semesters (not including summer).

Note: Those already holding a master's degree and 5 years of leadership in education should also see the Executive Leadership Program (below) for pursuing administrator (superintendent) licensure.

Denver Metro-Area Cohorts

Denver metro-area cohorts are delivered in four 8-semester-hour courses over four consecutive semesters. Cohorts start at one or more locations each semester and involve a combination of regular in-person meetings (up to 15 times per semester) and online work.

EDUC 5751 - Principal/Administrator Licensing I Semester Hours: 5 to 9

EDUC 5752 - Principal Administrator Licensing II. Semester Hours: 5 to 9

EDUC 5753 - Principal/Administrator Licensing III. Semester Hours: 5 to 9

EDUC 5754 - Principal or Administrator Licensing IV. Semester Hours: 5 to 9

Total: 32 Hours

Distance-Learning Cohorts

Distance-learning cohorts start each summer in June with a week long boot camp in Denver, meet over several intensive weekends during the subsequent fall and spring semesters and end with a weekend the following summer. Online work is completed in between the in-person sessions. Distance-learning cohorts are delivered in **three 9-semester-hour courses and one 5-semester-hour course:**

EDUC 5751 - Principal/Administrator Licensing I. Semester Hours: 5 to 9

EDUC 5752 - Principal Administrator Licensing II. Semester Hours: 5 to 9

EDUC 5753 - Principal/Administrator Licensing III. Semester Hours: 5 to 9

EDUC 5754 - Principal or Administrator Licensing IV. Semester Hours: 5 to 9

Total: 32 Hours

MA Program

The MA is designed for those who do not already hold a graduate degree. Usually master's students will complete 9 semester hours beyond the 32 required in the licensure program, for a total of 41 semester hours of course work after the bachelor's degree.

For the MA degree, students must select at least one course in each of the following three areas:

Section A: Educational Research

RSEM 5100 - Basic Statistics Semester Hours: 3

RSEM 5120 - Introduction to Research Methods Semester Hours: 3

RSEM 5110 - Introduction to Measurement Semester Hours: 3

Section B: Educational Foundations/Multicultural Education

FNDS 5050 - Critical Issues in American Education. Semester Hours: 3

FNDS 5500 - Contemporary Philosophies of Education. Semester Hours: 3

FNDS 5410 - History and Philosophy of Modern Education. Semester Hours: 3

LCRT 5140 or CLDE 5140 - Multicultural Education Semester Hours: 3

LCRT 5150 or CLDE 5150 - Culture of the Classroom Semester Hours: 3

CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn Semester Hours: 3

Section C: Educational Psychology/Special Education

EDUC 5400 - Special Education Seminar for Principals. Semester Hours: 3

EPSY 5100 - Advanced Child Growth and Development. Semester Hours: 3

EPSY 5110 - Human Learning. Semester Hours: 3
EPSY 5140 - Advanced Adolescent Growth and Development. Semester Hours: 3
EPSY 5160 - Behavior Disorders in Exceptional Children. Semester Hours: 3
EPSY 5200 - Social Psychology of Learning. Semester Hours: 3
SPED 5140 - Advanced Assessment in Special Education. Semester Hours: 3
SPED 5180 - Curriculum Planning for Students with Special Needs. Semester Hours: 3
SPED 5400 - Advanced Seminar in Special Education. Semester Hours: 3
SPED 5600 - Special Education for School Professionals. Semester Hours: 3

Candidates must also successfully complete a comprehensive exam paper, reflecting on how the three MA classes will help them in the role of principal.

EdS Program

The EdS degree program affords the opportunity for advanced graduate study and is available to those who already hold a master's degree. Generally, for the specialist degree students will complete 9 semester hours that constitute an area of focus, in addition to the 32 required in the licensure program. Candidates must also successfully complete a comprehensive exam paper, reflecting on how the three EdS classes will help them in the role of principal.

Administrator Licensure - Executive Leadership Program

Designed for the professional educator who, already holding a master's degree and 5 years leadership experience in education, wishes to obtain an initial administrator license in Colorado and prepare for a career as a superintendent or other district leader. This one-year, 12-semester-hour certificate program combines weekend meetings with online work and hands-on clinical practice—usually completed in participants' home districts. Learn more at www.ucdenver.edu/education/elp.

EdD Leadership for Educational Equity with Principal or Administrator License

Students interested in pursuing the administrator license along with a doctorate should instead apply to the EdD Leadership for Educational Equity instead of to the Executive Leadership Administrator Licensure Program.

Additional Program Information

Individuals interested in any of these programs are encouraged to contact ALPS faculty. Conferences prior to application are encouraged and welcomed. Following admission, students are expected to maintain frequent contact with assigned advisors to plan, develop and complete their programs of study.

EARLY CHILDHOOD SPECIAL EDUCATION SPECIALIST LICENSURE

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@cudenver.edu

Website: www.ucdenver.edu/education

Faculty: More information about faculty in this division is available online at www.ucdenver.edu/education

About the early childhood education program

The early childhood education (ECE) program leads to a master's degree in early childhood education and/or Colorado teacher license in early childhood special education (ECSE) specialist. The program prepares leaders who will enrich the life experience of young children (birth to 8 years) and their families through a variety of professional roles.

The ECE program is interdisciplinary in focus, drawing on university resources and the clinical expertise of various community professionals. There is a strong emphasis on fieldwork and practicum experiences in both regular and special education concentrations. Field experiences are a part of each course and provide an opportunity for each student to gain knowledge, abilities and dispositions while interacting with children, families, program staff and community agencies. Practicum experiences are designed to allow students to apply knowledge and practice skills in a closely supervised environment.

Curriculum and Program Requirements

Semester Hour Requirements

Master's degree in ECE: 39 semester hours

ECSE specialist license: 39 semester hours

Master's degree plus ECSE specialist license: 48 semester hours

Master's degree plus ECSE specialist added endorsement: 39 semester hours

ECSE specialist added endorsement: 24 semester hours

Early childhood education and the early childhood special education focus share course content in:

- language development and disorders
- child growth and development, differences and disorders
- learning approaches with young children
- measurement and evaluation
- basic statistics/research methods
- multicultural education
- research and current issues
- early childhood curriculum and program development for inclusive classrooms
- working collaboratively with parents and families
- program administration/leadership

The early childhood education program provides specialized training in:

- language acquisition and development
- literacy instruction
- infant/toddler development
- early childhood mental health and social competence

The early childhood special education program provides specialized training in:

- screening and assessment of young children
- intervention strategies with infants and preschoolers
- behavior management
- working as a member of the transdisciplinary team
- cognitive and socio-emotional development and disorders
- treatment of children who have neurological impairment and chronic illness
- challenging behaviors and autism

For more information on coursework and plans of study, please contact an advisor in the School of Education and Human Development.

Fieldwork and Practicum Requirements

The master's degree in early childhood education includes a total of 425 hours of required fieldwork/practica. Approximately 200 hours of fieldwork are associated with course assignments; 225 hours of intense, culminating practica occur toward the end of the second year of study. Students completing the MA program take a written comprehensive exam (take home) during the final semester of their program (concurrently with courses at the end of the program sequence).

For the master's degree in early childhood education plus the ECSE specialist initial license, a total of 800 hours of fieldwork/practica is required. Approximately 290 hours of fieldwork are associated with course assignments; 510 hours of intense, culminating practica occur toward the end of the second year of study. Students seeking an added endorsement in ECSE specialist also complete 510 hours of practicum experiences.

ELEMENTARY/SECONDARY EDUCATION LICENSURE

Urban Community Teacher Education Program

Lawrence Street Center, 701

Campus Box 106

P.O. Box 173364

Denver, CO 80217-3364

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: www.ucdenver.edu/education

Please click on any of the following to go right to that information:

- [Graduate Programs](#)
- [Admissions Requirements](#)

[Urban Community Teacher Education Licensure Program Overview](#)

The Urban Community Teacher Education program is both an undergraduate and graduate level program for general education licensure. (Special education is currently only an option at the graduate level, but undergraduates who want to obtain a special education license are encouraged to consider pursuing their endorsement plus an MA in special education .) The expectations for performance are identical for both undergraduates and graduates because the expectations for newly licensed teachers in the state of Colorado are exactly the same. Undergraduates and graduates work side by side in coursework and internships. There are very slight differences including the course registration numbers (undergraduates register for 4000 level; graduate students register for 5000 level) and undergraduates take 1-2 licensure courses and one internship prior to admission in the program. The teacher education program fosters critically reflective inquiry about teaching and learning and the development of collaborative skills necessary to work effectively with other adults on schooling issues. The program strives to meet the needs of an increasingly diverse population of students, and to productively participate in and lead school renewal by applying democratic principles in educational settings.

[Education Pathways](#)

The graduate teacher education program at CU Denver is designed for individuals with a minimum of a bachelor's degree who seek a master's degree along with an initial Colorado provisional teacher's license in the following areas:

- **Elementary Education (K–6)** (43 semester hours)
- **Secondary Education (7–12)** (36 semester hours)
 - English
 - mathematics
 - science (general science, biology, earth science, physics, chemistry)
 - social studies
 - foreign language (Spanish, French)
- **Special Education Generalist (Ages 5–21)** (57 semester hours)
- **Dual General Education/Special Education (60-67 semester hours)**

[Program Distinctions](#)

[Program Structure](#)

The program admits teacher candidates in three cohort groups, one in the summer and one in fall. The initial professional teacher education program includes a full time 1 - 1.5 year licensure plan for regular education and a 1.5 - 2 year full time option for initial special education and dual special education. Students will be taking course work at the university and field-based work in one of CU Denver's partner schools. By enrolling in several courses together, elementary and secondary teacher candidates consider how students develop as learners over the entire K–12 school span. This collaborative approach applies

to students in the general and special education program as well. This ensures that all elementary and secondary classroom teachers are well-prepared to work with students with special needs and that all special educators have a solid foundation in general education in curriculum and instruction.

Professional Development Schools

While in the licensure portion of the program, teacher candidates work in a partner school two to five days per week, depending on the internship level with the sequence of the program plan. University courses are closely interrelated with the three internship experiences in which teacher candidates gradually assume responsibility for teaching. Elementary teacher candidates generally spend an entire academic year in a single partner elementary school, whereas secondary teacher candidates spend their internships in one of the partner middle schools *and* one of the partner high schools. The partner schools are located in several Denver metropolitan districts with most serving large populations of low-income and/or minority students, as well as a sizeable number of students for whom English is a second language and students with special needs. Each partner school is supported by a site professor from the university one day per week and by a master teacher/mentor, called a site coordinator, who supports teacher candidates through their entire internships.

Assessment

In 2000, Senate Bill 154 required all Colorado teacher education institutions to become performance based. PBA stands for performance based assessment. PBAs are created that correspond to many of the teacher education courses and concurrent practice in the series of internships. In doing so, knowledge can be evaluated as a result of coursework and performance in schools simultaneously. As teacher candidates progress through the program, they will be introduced to Performance Based Assessments (PBAs) and will be guided and supported in both course work and internships. Students seeking dual licensure are responsible for four additional PBAs associated with their second endorsement in Special Education.

The PBAs are:

1. Literacy Instruction & Assessment (elementary and secondary versions)
2. Mathematics Instruction & Assessment (elementary)
3. Subject Matter Content (secondary)
4. Student Profile
5. Classroom Management
6. Teacher Work Sample (TWS)
7. Internship Performance Rubric (used at the end of each internship)

Programs of Study

Due to the complex nature of state mandated influences of teacher preparation courses and consistently evaluating our program to meet student needs, please see current programs of study in the teacher education handbook .

Master's Degree Options

The teacher education program design supports the concept of teacher education as an ongoing developmental process linking preservice, induction and ongoing professional growth experiences. Upon completion of the licensure portion of the program, beginning teachers continue working toward their master's degree (an additional 18-38 semester hours) in the areas of special education, educational psychology, content in English or history in collaboration with the College of Liberal Arts and Sciences, or curriculum and instruction with emphasis areas during their first or second year of teaching. This ensures that CU Denver's new teachers are provided with continuing support from the university while in their first few years of teaching.

Requirements for Admission

The program has two windows for admissions each semester. Summer admission deadlines are January 15 & February 15; Fall admission deadline is March 15 and April 15.

Urban Community Teacher Education Information Sessions

All prospective teacher candidates are strongly encouraged to attend an information session before applying to the program. Information sessions are held once a month lasting approximately 60-90 minutes. An advisor will be available to provide prospective students transcript reviews and pre-admission advising. To more effectively facilitate this process, please bring copies of all transcripts with you. A calendar of upcoming information sessions can be viewed on the CU Denver website. Go to www.ucdenver.edu/education to reserve a space under the menu item "Information Sessions."

Urban Community Teacher Education Program Requirements

- Applicants to the urban community teacher education program must hold at least a bachelor's degree with a minimum undergraduate cumulative GPA of 2.75 for admission.
- Graduate candidates with a GPA less than 2.75 are required to take the GRE, with a combined score of 150 each on the verbal and quantitative sections; or the Miller Analogies Test, with an average score of 400–600, before consideration for admittance.
- Verification of passing official scores for PLACE or PRAXIS II.
- All elementary education candidates must have a liberal arts major or equivalent content courses that provide a broad background of knowledge. *
- All secondary education candidates must have a major or major equivalent of at least 30 semester hours in their desired teaching field. *
- Undergraduate candidates must have an individually structured elementary emphasis.
- A complete application which can be obtained at scheduled information sessions, downloaded online, or at the Student Services Center

*This is determined through transcript evaluations with an evaluator.

PRINCIPAL LICENSURE

Administrative Leadership and Policy Studies

Requirements for Principal Licensure, the MA and EdS degrees, and Executive Leadership Administrator Licensure Program

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Web site: www.ucdenver.edu/education/alps

Click on any of the following to go right to that information:

- [Principal Licensure](#)
- [Master of Arts Degree](#)
- [Education Specialist Degree](#)
- [Executive Leadership Administrator Licensure Program](#)
- [EdD Leadership for Educational Equity with Principal or Administrator License](#)

Faculty

For information about faculty in this area, visit www.ucdenver.edu/education/alps.

The primary responsibility of the administrative leadership and policy studies (ALPS) faculty is to prepare leaders for public education in Colorado and the nation. Currently, the principal license is required for people seeking building-level administrative positions in Colorado.

Principal Licensure Program

ALPS offers course work that leads to the initial license for principal. Having earned an initial license, those who have obtained a master's degree and who go on to complete a district sponsored induction program may then be awarded a professional license by the Colorado Department of Education.

ALPS's 32 semester-hour principal licensure program is project-based, requiring students to present evidence of meeting both state and national standards through performance based assessments. A 400-hour clinical-practice experience is integrated throughout the four-semester program.

Students interested in pursuing a 12 semester hour principal license at the doctoral level should instead apply to the EdD Leadership for Educational Equity instead of to the MA or EdS Administrative Leadership & Policy Studies. Melissa – this sentence might need some work, but something like this to keep it simple and then link to the EdD.

Students develop a portfolio during the principal licensure program. Portfolios not finalized by the end of the fourth semester must be completed within the two subsequent semesters (not including summer).

Note: Those already holding a master's degree and 5 years of leadership in education should also see the Executive Leadership Program (below) for pursuing administrator (superintendent) licensure.

Denver Metro-Area Cohorts

Denver metro-area cohorts are delivered in four 8-semester-hour courses over four consecutive semesters. Cohorts start at one or more locations each semester and involve a combination of regular in-person meetings (up to 15 times per semester) and online work.

EDUC 5751 - Principal/Administrator Licensing I Semester Hours: 5 to 9

EDUC 5752 - Principal Administrator Licensing II. Semester Hours: 5 to 9

EDUC 5753 - Principal/Administrator Licensing III. Semester Hours: 5 to 9

EDUC 5754 - Principal or Administrator Licensing IV. Semester Hours: 5 to 9

Total: 32 Hours

Distance-Learning Cohorts

Distance-learning cohorts start each summer in June with a week long boot camp in Denver, meet over several intensive weekends during the subsequent fall and spring semesters and end with a weekend the following summer. Online work is completed in between the in-person sessions. Distance-learning cohorts are delivered in **three 9-semester-hour courses and one 5-semester-hour course:**

EDUC 5751 - Principal/Administrator Licensing I. Semester Hours: 5 to 9

EDUC 5752 - Principal Administrator Licensing II. Semester Hours: 5 to 9

EDUC 5753 - Principal/Administrator Licensing III. Semester Hours: 5 to 9

EDUC 5754 - Principal or Administrator Licensing IV. Semester Hours: 5 to 9

Total: 32 Hours

MA Program

The MA is designed for those who do not already hold a graduate degree. Usually master's students will complete 9 semester hours beyond the 32 required in the licensure program, for a total of 41 semester hours of course work after the bachelor's degree.

For the MA degree, students must select at least one course in each of the following three areas:

Section A: Educational Research

RSEM 5100 - Basic Statistics Semester Hours: 3

RSEM 5120 - Introduction to Research Methods Semester Hours: 3

RSEM 5110 - Introduction to Measurement Semester Hours: 3

Section B: Educational Foundations/Multicultural Education

FNDS 5050 - Critical Issues in American Education. Semester Hours: 3

FNDS 5500 - Contemporary Philosophies of Education. Semester Hours: 3

FNDS 5410 - History and Philosophy of Modern Education. Semester Hours: 3

LCRT 5140 or CLDE 5140 - Multicultural Education Semester Hours: 3

LCRT 5150 or CLDE 5150 - Culture of the Classroom Semester Hours: 3

CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn Semester Hours: 3

Section C: Educational Psychology/Special Education

EDUC 5400 - Special Education Seminar for Principals. Semester Hours: 3

EPSY 5100 - Advanced Child Growth and Development. Semester Hours: 3

EPSY 5110 - Human Learning. Semester Hours: 3

EPSY 5140 - Advanced Adolescent Growth and Development. Semester Hours: 3

EPSY 5160 - Behavior Disorders in Exceptional Children. Semester Hours: 3

EPSY 5200 - Social Psychology of Learning. Semester Hours: 3

SPED 5140 - Advanced Assessment in Special Education. Semester Hours: 3

SPED 5180 - Curriculum Planning for Students with Special Needs. Semester Hours: 3

SPED 5400 - Advanced Seminar in Special Education. Semester Hours: 3

SPED 5600 - Special Education for School Professionals. Semester Hours: 3

Candidates must also successfully complete a comprehensive exam paper, reflecting on how the three MA classes will help them in the role of principal.

EdS Program

The EdS degree program affords the opportunity for advanced graduate study and is available to those who already hold a master's degree. Generally, for the specialist degree students will complete 9 semester hours that constitute an area of focus, in addition to the 32 required in the licensure program. Candidates must also successfully complete a comprehensive exam paper, reflecting on how the three EdS classes will help them in the role of principal.

Administrator Licensure - Executive Leadership Program

Designed for the professional educator who, already holding a master's degree and 5 years leadership experience in education, wishes to obtain an initial administrator license in Colorado and prepare for a career as a superintendent or other district leader. This one-year, 12-semester-hour certificate program combines weekend meetings with online work and hands-on clinical practice—usually completed in participants' home districts. Learn more at www.ucdenver.edu/education/elp.

EdD Leadership for Educational Equity with Principal or Administrator License

Students interested in pursuing the administrator license along with a doctorate should instead apply to the EdD Leadership for Educational Equity instead of to the Executive Leadership Administrator Licensure Program.

Additional Program Information

Individuals interested in any of these programs are encouraged to contact ALPS faculty. Conferences prior to application are encouraged and welcomed. Following admission, students are expected to maintain frequent contact with assigned advisors to plan, develop and complete their programs of study.

Special Education

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: www.ucdenver.edu/education

[Special Education Program Overview](#)

The special education program within the initial professional teacher education division offers a special education generalist license and a special education endorsement as well as a master of arts degree in special education. All special education program options foster the development of critical reflection, inquiry about teaching and learning, as well as the breadth and depth in content knowledge necessary to work effectively in elementary and secondary classrooms. The program faculty promote the ability of teacher candidates to meet the needs of an increasingly diverse population of K–12 learners, as well as to participate productively in and lead school renewal.

The faculty in the program in special education value collaborative relationships between general and special educators, so we offer our teacher candidates the option of pursuing a dual endorsement in both general and special education to offer our teacher candidates the option of pursuing a dual endorsement in both general and special education.

[Special Education Program Distinctions](#)

[Special Education Licensing Pathways](#)

To be licensed as a special education generalist for grades ages 5-21, a teacher candidate must hold a bachelor's degree from a four-year accepted institution of higher education, have completed the plan of study from one of the program options for the preparation of special education generalist, have passed the state special education assessment and have demonstrated all required state and national standards.

Program options for the special education generalist include: 1) initial licensure as a special education generalist; 2) dual licensure in either elementary or secondary education and as a special education generalist; and, 3) for those who already hold a Colorado teaching license, an added endorsement, which is also fully online. There is also an option to count these courses towards a masters in special education which will require an additional 12 semester hours of face to face course work and portfolio.

The time needed to complete the various special education generalist program options varies based on the needs of teacher candidates. In addition to traditional on-campus offerings, a wide selection of courses are available in online formats. During the academic year, core special education courses are scheduled in late afternoons and evenings to avoid conflict with teaching responsibilities.

[Professional Development Schools](#)

While in the licensure portion of the program, teacher candidates work in a partner school one to four days per week, depending on the internship. University courses are closely interrelated with the four internship experiences in which teacher candidates gradually assume responsibility for teaching. Special education teacher candidates engage in a series of four internships from the beginning of the program

to the end of the program. Dual teacher candidates engage in two internships that result in a general education license at the elementary or secondary level and then two special education internships and additional course work; leading to an endorsement in special education. The partner schools are located in several Denver metropolitan districts with most serving large populations of low-income and/or minority students, as well as a sizeable number of students for whom English is a second language and students with special needs. Each partner school is supported by a site professor from the university one day per week and by a master teacher, called a site coordinator.

Assessment

In 2000, Senate Bill 154 required all Colorado teacher education institutions to become performance based. PBA stands for performance based assessment. PBAs are created that correspond to many of the teacher education courses and concurrent practice in the series of internships. In doing so, knowledge can be evaluated as a result of coursework and performance in schools simultaneously. As teacher candidates progress through the program, they will be introduced to Performance Based Assessments (PBAs) and will be guided and supported in both course work and internships. Students seeking dual licensure are responsible for four additional PBAs associated with their second endorsement in special education.

The PBAs are:

1. Literacy Instruction & Assessment (elementary and secondary versions)
2. Mathematics Instruction & Assessment (elementary)
3. Subject Matter Content (secondary)
4. Student Profile
5. Classroom Management
6. Teacher Work Sample (TWS)
7. Internship Performance Rubric (used at the end of each internship)

The four additional PBAs that all teacher candidates in the special education program are expected to proficiently complete include:

1. Assessment
2. Collaboration & Positive Behavior Supports
3. Literacy Instruction for Students with Identified Special Needs
4. The Individualized Education Program (I.E.P.) Process

Passing the PLACE special education generalist examination prior to the final internship is also required before a candidate is eligible for a provisional special education generalist teaching license in Colorado. Dual candidates must also pass state content knowledge exams prior to admission.

Programs of Study

Due to the complex nature of state mandated influences of teacher preparation courses and constantly evaluated the program to meet student's needs, please refer to the most current version of the Special Education Handbook for academic requirements for this program.

Requirements for Admission

The program conducts admissions each semester. Summer admission deadlines are January 15 and February 15; fall admission is March 15 and April 15. Spring admission deadlines are August 15 and September 15.

Teacher Education Information Sessions

All prospective teacher candidates are strongly encouraged to attend an information session before applying to the program. Information sessions are held twice a month lasting approximately 60-90 minutes. Advisors will be available to provide prospective students transcript reviews and pre-admission advising. To more effectively facilitate this process, please bring copies of all transcripts with you. A calendar of upcoming information sessions can be viewed on the CU Denver website. Go to www.ucdenver.edu/education and click on "Information Session" to reserve a space.

Teacher Education Program Requirements

- Applicants to the UCTE program must hold at least a bachelor's degree with a minimum undergraduate cumulative GPA of 2.75 for admission.
- Graduate candidates with a GPA less than 2.75 are required to take the GRE, with a combined score of 1000 on the verbal and quantitative sections; or the Miller Analogies Test, with an average score of 400–600, before consideration for admittance.
- All elementary education candidates must have a liberal arts major or equivalent content courses that provide a broad background of knowledge. *
- All secondary education candidates must have a major or major equivalent of at least 30 semester hours in their desired teaching field. *
- Copy of passing official scores for PLACE or PRAXIS II.
- A complete application on file that can be obtained at information sessions, online or through the Student Services Center.

*This is determined through transcript evaluations at information sessions.

Endorsement Programs

CULTURALLY AND LINGUISTICALLY DIVERSE EDUCATION ENDORSEMENT

Culturally and Linguistically Diverse Education

Requirements for CLDE Program

(Degree/Endorsement or Certificates - TESOL, CRUE, TCLD)

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Faculty

Information about faculty in this program is available at our website

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/OurFaculty.aspx>. The faculty of linguistically diverse education (CLDE) believe that effective teaching requires an awareness of and the ability to respond to individual differences. CLDE faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Program Options

The CLDE program offers options leading to the following:

- a Master of Arts in Curriculum and Instruction
- the Colorado Endorsement for Culturally and Linguistically Diverse Education
- a Teaching English to Speakers of Other Languages (TESOL) certificate
- a Culturally Responsive Urban Education (CRUE) certificate
- a Teaching for Cultural and Linguistic Diversity (TCLD) certificate

The program is intended for:

- novice teachers who have completed their Colorado teaching credentials in CU Denver's graduate teacher education licensure program and are enrolled in the MA in curriculum and instruction with an emphasis in CLDE (see 27 semester-hour option)
- veteran elementary and secondary teachers returning to graduate studies for the master's degree (36 semester hours)
- veteran elementary and secondary teachers returning to acquire Colorado endorsement credentials (24 semester hours)

- individuals interested in teaching English abroad (TESOL: 15 semester hours)
- elementary and secondary teachers who desire preparation in better meeting the needs of culturally diverse learners (CRUE: 9 semester hours)
- veteran elementary and secondary teachers returning to graduate studies for a certificate to aid them in helping their English language learners succeed (TCLD: 9 semester hours)
- individuals interested in teaching adults (MA: 36 semester hours)

The MA is a field-based professional development program involving university faculty and practicing CLDE instructors in public school and intensive English settings. Courses, laboratories and practica emphasize scholarly approaches to complex problems of practice and feature interactive, collaborative and practical approaches to working with English language learners.

We advocate a sociocultural approach to issues of language and learning, acknowledging the legitimacy of linguistic and cultural differences and recognizing that academic settings represent important socializing forces in students' lives. Because of this, we emphasize the "whole learner" in our teaching and in teacher education and teacher development, understanding that individuals do not merely add a language to their repertoire of communication but make fundamental identity adjustments as they progress in their studies. For this reason, all our course work, laboratories and practica experiences are field-based, putting our program participants in contact with veteran teachers and English language learners. We draw heavily on recent scholarship in collaborative approaches to school-university partnerships and systemic school change in developing classroom methods and materials, curricula and teacher development experiences.

The MA program also provides a foundation in teaching English in a variety of contexts in the United States and abroad. Teachers who work in CLDE programs or in other content areas (such as art, language arts, math, music, science, social studies or technology), but who wish to integrate CLDE principles and strategies into their instruction for their English language learners, will find the MA program relevant to their interests and goals.

Course work includes language teaching methodology, language acquisition, linguistic analysis of English, multicultural foundations, assessment, literacy and other areas. This program has been developed as an advanced course of study for practicing teachers or individuals with some teaching experience.

Applicants who are new to teaching, and who wish to teach in U.S. K–12 public school settings, should inquire about the teacher education licensure program. Applicants who are new to teaching, but who do not need a teaching license (certification) because they do not wish to teach in U.S. public schools, may consider the TESOL certificate to gain initial teaching experiences before applying for the MA.

[Program Requirements and Courses](#)

To complete the CLDE program and earn a master's degree and/or endorsement, or to earn a TESOL certificate, students must complete the appropriate course work as outlined in the table below.

Requirements for CLDE Program (Degree/Endorsement or TESOL Certificate)

Course	MA for Teaching Adults (without CDE Endorsement in CLDE)	MA and CDE Endorsement in CLDE	CDE Endorsement in CLDE Only	MA and CDE Endorsement in CLDE (when added to CU Denver's graduate teacher education licensure program)	TESOL Certificate
CLDE 5010 - Foundations of Language, Literacy and Culture	Required	Required	Required	Required	
CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn	Required	Required	Required	Required	
<p><i>One course from culture options:</i></p> <p>CLDE 5140 - Multicultural Education or CLDE 5150 - Culture of the Classroom</p>	Select One	Select One	Not Required	Not Required	
CLDE 5070 - Linguistic Analysis of English: Implications for Teaching	Required	Required	Required	Required	Required
CLDE 5030 - Language & Literacy Acquisition Div Lrn	Required	Required	Required	Required	Required
CLDE 5820 - Techniques in Teaching English as a Second Language	Required	Required	Required	Required	Required
CLDE 5050 - Assessment & Advocacy for Diverse Learners	Required	Required	Required	Required	Required

<p><i>One course from field-based teaching options:</i></p> <p>CLDE 5825 - Methods and Materials of Language Teaching or CLDE 5826 - Language Teaching Lab or LCRT 5770 - Effective Literacy Instruction for Second Language Learners (DPS or APS teachers only)</p> <p>Other courses such as LCRT 5730, LCRT 5020, or SPED 5740 may be used with Faculty Advisor approval only</p>	5826 preferred	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	5826
CLDE 5035 - Language and Literacy: Acquisition, Processes, and Cognition, Part II	Required	Required	Not Required	Not Required	
CLDE 6912 - Seminar and Practicum in Literacy and Language, ESL and Bilingual Education	Required	Required	Required	Required	
<p><i>One course from research and evaluation methodology:</i></p> <p>RSEM 5050 - Classroom Assessment or RSEM 5080 - Research In Schools or Any other graduate-level RSEM course with advisor approval</p>	Select One	Select One	Not Required	Select One	
<p><i>One course from educational psychology:</i></p> <p>EPSY 5110 - Human Learning or EPSY 5220 - Adult Learning and Education or</p>	Select One	Select One	Not Required	Not Required	

Any other graduate-level EPSY course with advisor approval					
Cumulative Experience: Final Reflection	Required	Required	Required	Required	
LDE PLACE Exam (not required for students beginning Spring 2013 or later)		Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	
Total Semester Hours	36	36	24	27	15

Culturally Responsive Urban Education (CRUE) Certificate Requirements

Those considering the CRUE certificate must complete the following:

- CLDE 5170 - Race, Class and Culture in Public Schools Semester Hours: 3
- CLDE 5180 - Working with Communities and Families Semester Hours: 3
- CLDE 5190 - Culturally Responsive Pedagogy and Practices Semester Hours: 3

Total: 9 Hours

This certificate is only offered as a cohort, through our district partnerships. Additional information about the CRUE certificate can be found at

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/CulturallyResponsiveUrbanEducation.aspx>

Teaching for Cultural and Linguistic Diversity (TCLD) Certificate

The TCLD Certificate (formerly known as Content Instruction for English Learners (CIEL) is a graduate certificate providing a foundation in teaching content to students whose first language is other than English. The program is designed for content-area teachers (math, science, social studies, etc.) who have English language learners in their classes. This certificate is also valuable to content area coaches or administrators who provide support for teachers with English language learners. The certificate is appropriate for public school and community college personnel.

The certificate totals nine credit hours with the specialty area in culturally and linguistically diverse education (CLDE). All courses are three graduate credit hours and may be applied directly toward a full master's degree in Curriculum and Instruction with an emphasis in LDE while also fulfilling the requirements toward a Colorado Culturally and Linguistically Diverse Education Endorsement. Courses may also be applied toward the Teaching English to Speakers of Other Languages (TESOL) Certificate. Additional courses and applications are required for these programs. Please see our website for additional information on this

certificate: <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/TeachingforCulturalandLinguisticDiversityCertificate.aspx>.

The certificate may be completed in one year. Those pursuing the TCLD certificate must complete the following:

- CLDE 5030 - Language & Literacy Acquisition Div Lrn
- CLDE 5820 - Techniques in Teaching English as a Second Language
- LCRT 5770 - Effective Literacy Instruction for Second Language Learners

The TCLD certificate is being offered only through our district partnerships.

Culminating Experience: Final Reflection

The culminating experience project is required for the CLDE endorsement, counts as the comprehensive exam for the master's degree and permits you to document your development over the course of your program. Culminating Experience Projects are reviewed by CLDE faculty members. The process is reviewed in every class as each of the PBAs is completed in the classes, helping students to update their culminating experience projects throughout the program. For more culminating experience project guidelines, visit the website

at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LinguisticallyDiverseEducationResources.aspx>.

PLACE Exam for Linguistically Diverse Education Endorsement

To add the endorsement to their teaching license, students beginning the program prior to Spring 2013 must pass the PLACE (Program for Licensing Assessments for Colorado Educators) exam for linguistically diverse education, secure and submit the appropriate paperwork from the Colorado Department of Education, and pay fees required for the PLACE and for the endorsement paperwork. Information about PLACE is online at www.place.nesinc.com. Students beginning Spring 2013 or later will be eligible for the Culturally and Linguistically Diverse Education Endorsement and will not be required to pass the PLACE exam to receive the CLDE endorsement.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the summer semester, three-to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester and up to two courses each summer. Students may simultaneously complete requirements for the MA and the endorsement for culturally and linguistically diverse education (some courses are offered only once per year.)

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

EARLY CHILDHOOD SPECIAL EDUCATION SPECIALIST ENDORSEMENT

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Email: education@cudenver.edu

Website: www.ucdenver.edu/education

Faculty

More information about faculty in this division is available online at www.ucdenver.edu/education

About the early childhood education program

The early childhood education (ECE) program leads to a master's degree in early childhood education and/or Colorado teacher license in early childhood special education (ECSE) specialist. The program prepares leaders who will enrich the life experience of young children (birth to 8 years) and their families through a variety of professional roles.

The ECE program is interdisciplinary in focus, drawing on university resources and the clinical expertise of various community professionals. There is a strong emphasis on fieldwork and practicum experiences in both regular and special education concentrations. Field experiences are a part of each course and provide an opportunity for each student to gain knowledge, abilities and dispositions while interacting with children, families, program staff and community agencies. Practicum experiences are designed to allow students to apply knowledge and practice skills in a closely supervised environment.

Curriculum and Program Requirements

Semester Hour Requirements

Master's degree in ECE: 39 semester hours

ECSE specialist license: 39 semester hours

Master's degree plus ECSE specialist license: 48 semester hours

Master's degree plus ECSE specialist added endorsement: 39 semester hours

ECSE specialist added endorsement: 24 semester hours

Early childhood education and the early childhood special education focus share course content in:

- language development and disorders
- child growth and development, differences and disorders
- learning approaches with young children
- measurement and evaluation
- basic statistics/research methods
- multicultural education

- research and current issues
- early childhood curriculum and program development for inclusive classrooms
- working collaboratively with parents and families
- program administration/leadership

The early childhood education program provides specialized training in:

- language acquisition and development
- literacy instruction
- infant/toddler development
- early childhood mental health and social competence

The early childhood special education program provides specialized training in:

- screening and assessment of young children
- intervention strategies with infants and preschoolers
- behavior management
- working as a member of the transdisciplinary team
- cognitive and socio-emotional development and disorders
- treatment of children who have neurological impairment and chronic illness
- challenging behaviors and autism

For more information on coursework and plans of study, please contact an advisor in the School of Education and Human Development.

Fieldwork and Practicum Requirements

The master's degree in early childhood education includes a total of 425 hours of required fieldwork/practica. Approximately 200 hours of fieldwork are associated with course assignments; 225 hours of intense, culminating practica occur toward the end of the second year of study. Students completing the MA program take a written comprehensive exam (take home) during the final semester of their program (concurrently with courses at the end of the program sequence).

For the master's degree in early childhood education plus the ECSE specialist initial license, a total of 800 hours of fieldwork/practica is required. Approximately 290 hours of fieldwork are associated with course assignments; 510 hours of intense, culminating practica occur toward the end of the second year of study. Students seeking an added endorsement in ECSE specialist also complete 510 hours of practicum experiences.

Instructional Technology Endorsement

K–12 teachers may elect to complete a 24-semester-hour program leading to state endorsement in instructional technology at the teacher or specialist level. Teachers beginning their careers may complete 24 semester hours for teacher-level endorsement. More experienced teachers may complete 24 semester hours for the specialist-level endorsement.

For complete details about ILT programs, endorsement requirements and certificates, see the ILT website.

READING TEACHING ENDORSEMENT

Literacy, Language and Culturally Responsive Teaching

MA Requirements for the Reading and Writing Option and Secondary English Education Option, plus Reading Teacher Endorsement and Certificate Programs

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Click on any of the following to go right to that information:

- Reading and Writing
- Secondary English
- Early and Adolescent Literacy Certificates
- Literacy and Language Development for English Language Learners Certificate

Faculty

Information about faculty in this program is available online at

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/Our-Faculty.aspx>.

The faculty of literacy, language and culturally responsive teaching (LLCRT) believe that effective teaching requires an awareness of and the ability to respond to individual differences. LLCRT faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Reading and Writing Option and Reading Teacher Endorsement

This master's program is designed for K-6 and 7-12 teachers. This program is a credentialed program meeting the Colorado Department of Education requirements for the reading teacher endorsement. Please note that the Colorado Department of Education also requires 2 years of post-licensing teaching experience and a passing score on the Reading Teacher PLACE exam for the application for the reading teacher endorsement after graduation from the Reading and Writing program. Therefore, students who obtain a master's degree emphasizing reading and writing are

certified to hold positions in public and private schools as special developmental and reading teachers in K–6 or 7–12. This program is also valuable for elementary and secondary teachers who wish to enhance reading and writing instruction in their classrooms.

By placing emphasis on the reading, writing and oral and visual language development of culturally, linguistically and academically diverse student populations, this master's program is at the forefront of the field. Language is approached from a socio-psycholinguistic perspective that emphasizes the learner's construction of meaning rather than the learning of isolated skills. Importance is placed on using theory, inquiry and personal reflection to inform classroom practice. The program prepares teachers to become decision makers capable of developing learner-centered curricula where each student's reading and writing abilities are assessed to address developmental or special needs.

Curriculum

Course offerings lead to an MA degree in curriculum and instruction with an emphasis in reading and writing, as well as a reading teacher endorsement, at one of two levels: K–6 or 7–12.

Those who have completed University of Colorado Denver's graduate-level teacher education licensure program must earn an additional 27 semester hours to obtain the MA and endorsement. Those who completed licensure through other means must earn an additional 36 semester hours to obtain the MA and endorsement.

Teachers may add a reading teacher endorsement to an already-earned master's degree in education by taking those courses listed under the chosen endorsement level. (In the state of Colorado, the reading teacher endorsement cannot simply be added to a bachelor's degree.) Electives and core courses are not required for those seeking the endorsement only. Two additional courses must be taken in other areas specified by the Colorado Department of Education. In many cases, previous master's degree courses will satisfy this requirement.

Each student's course plan is developed in conjunction with his/her advisor. Please review <http://www.ucdenver.edu/academics/college/SchoolOfEducation/CurrentStudents/Resources/Pages/LLCResources.aspx> for the recommended course sequence.

Requirements for Reading and Writing Program (Degree/Endorsement Options)						
	ELEMENTARY (K-6)			SECONDARY (7-12)		
Course	MA & CDE Endorsement	MA & CDE Endorsement <i>(when added to CU Denver's graduate teacher education licensure program)</i>	CDE Endorsement Only	MA & CDE Endorsement	MA & CDE Endorsement <i>(when added to CU Denver's graduate teacher education licensure program)</i>	CDE Endorsement Only

LCRT 5020 - Workshop in Literacy and Language Teaching	Required		Required	Required	Required	Required
LCRT 5810 - Wksp: Lang Acq & Development	Required	Required	Required	Required	Required	Required
LCRT 5010 - Foundations of Language	Required	Required	Required	Required	Required	Required
LCRT 5710 - Primary Literacy: Pre- 3rd Grade	Required	Required	Required			
LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12	Required	Required	Required	Required	Required	Required
LCRT 5730 - Language and Literacy Across the Curriculum	Required		Required	Required		Required
Children's literature course, per advisor approval	Select one	Select one	Select one			
LCRT 5201 - Adolescent Literature				Required	Required <i>(waived if taken as part of English Licensure)</i>	Required
LCRT 6910 - Seminar and Practicum in	Required	Required	Required			

Literacy and Language, K-6						
LCRT 6911 - Seminar and Practicum in Literacy and Language, 7-12+				Required	Required	Required
LCRT 5055 - Linking Assessment and Instruction in Language and Literacy	Required	Required	Required	Required	Required	Required
LCRT 6915 - Seminar and Practicum in Literacy Professional Development	Required	Required		Required	Required	Required
Core course in Research and Evaluation Methodology - see list below	Select one	RSEM 5080 (preferred)		Select one	RSEM 5080 (preferred)	
Interdisciplinary core course - see list below	Select one			Select one		
Graduate-level School of Education and Human Development elective				Select one		
Portfolio	Required	Required		Required	Required	
PLACE Exam	Required	Required	Required	Required	Required	Required
Total Semester Hours	36	27	27	36	27	27

Secondary English Education Option

The master's program in secondary English education is designed to enhance the preparation of middle and high school English/language arts teachers. Students complete course work in language development, assessment and field experiences. With the help of their advisor, they also select specific courses from the English Department or within the School of Education and Human Development that provide a well-rounded repertoire of knowledge and skills to fulfill the needs of an English educator. Special consideration is given to working with diverse ethnic populations.

Program Requirements

To earn a master of arts degree in curriculum and instruction with an emphasis in secondary English education, students must complete the following:

- 30 graduate semester hours in English education
- 6 graduate semester hours of core courses
- performance-based assessments that culminate in a portfolio finalized in the last semester of the program as fulfillment of the MA comprehensive exam requirement

Each student's course plan is developed in conjunction with his/her advisor. Please review <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LCResources.aspx> for recommended course sequence.

LCRT 5055 - Linking Assessment and Instruction in Language and Literacy Semester Hours: 3

LCRT 5201 - Adolescent Literature Semester Hours: 3

LCRT 5200 - Theory and Methods of English Education Semester Hours: 3

LCRT 5810 - Wksp: Lang Acq & Development Semester Hours: 3

LCRT 5010 - Foundations of Language Semester Hours: 3

LCRT 6911 - Seminar and Practicum in Literacy and Language, 7-12+ Semester Hours: 3

Research and Evaluation Methodology core course (see list below).

Interdisciplinary core course (see list below).

Four electives, per advisor approval, from the English department and/or the School of Education & Human Development. The following are recommended:

- LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12 Semester Hours: 3 **or**
- ENGL 5110 - Denver Writing Project Semester Hours: 3

Courses in working with English language learners and in instructional technology may also be helpful. For a technology course, please contact the professor about prerequisite knowledge.

Total: 36 semester hours

Program Requirements--When Added to CU Denver's Graduate Teacher Education Licensure Program

MA in curriculum and instruction with emphasis in secondary English education, when added to CU Denver's graduate teacher education licensure program:

- 18 graduate semester hours
- performance-based assessments that culminate in a portfolio finalized in the last semester of the program as fulfillment of the MA comprehensive exam requirement

Each student's course plan is developed in conjunction with his/her advisor. Please see website <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LCResources.aspx> for recommended course sequence.

FNDS 5050 - Critical Issues in American Education Semester Hours: 3

-OR-

SPED 5300 - Collaborating in Schools and Communities Semester Hours: 3

RSEM 5080 - Research In Schools Semester Hours: 3

Four electives, per advisor approval, from the English department and/or the School of Education & Human Development. The following are recommended:

LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12 Semester Hours: 3

-OR-

ENGL 5110 - Denver Writing Project Semester Hours: 3

Courses in working with English language learners and in instructional technology may also be helpful. For a technology course, please contact the professor about prerequisite knowledge.

Total: 18 semester hours

Core Courses

Research and Evaluation Methodology

RSEM 5050 - Classroom Assessment Semester Hours: 3

RSEM 5080 - Research In Schools Semester Hours: 3

RSEM 5100 - Basic Statistics Semester Hours: 3

RSEM 5120 - Introduction to Research Methods Semester Hours: 3

RSEM 5110 - Introduction to Measurement Semester Hours: 3

Interdisciplinary

EPSY 5100 - Advanced Child Growth and Development Semester Hours: 3

EPSY 5140 - Advanced Adolescent Growth and Development Semester Hours: 3

EPSY 5220 - Adult Learning and Education Semester Hours: 3

EPSY 6200 - Human Development Over the Life Span Semester Hours: 3

FNDS 5050 - Critical Issues in American Education Semester Hours: 3

FNDS 5420 - History and Philosophy of Education: Twentieth Century America Semester Hours: 3

LCRT 5140 - Multicultural Education Semester Hours: 3

LCRT 5150 - Culture of the Classroom Semester Hours: 3

CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn Semester Hours: 3

CLDE 5820 - Techniques in Teaching English as a Second Language Semester Hours: 3

Cumulative Portfolio

The MA portfolio counts as the comprehensive exam for the master's degree. The portfolio is an accumulation of the performance based assessments completed during program courses and reflects on the student's development over the course of the degree program. Reading and writing students must include confirmation of Reading Teacher PLACE exam registration in their portfolios. Information about the PLACE is online at www.place.nesinc.com.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the summer semester, three- to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester, and up to two courses each summer. Plan carefully because courses are intended to build upon each other, and some courses are only offered once a year.

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

Early and Adolescent Literacy Certificates

The early literacy certificate and adolescent literacy certificate each include three graduate-level courses (for a total of 9 semester hours) and are conveniently offered entirely online. They are specifically designed to help licensed teachers develop the skills necessary to reach student readers. To find out more, please visit www.ucdenver.edu/education/cpe or email cpe@ucdenver.edu.

Literacy and Language Development for English Language Learners Certificate

This graduate certificate program is for teachers of English Language Learners, and was developed in response to public school districts' need to improve reading and writing achievement for students whose first language is other than English. The program is designed for teachers of elementary and secondary grades and those teaching special reading classes. More information can be found at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/LiteracyandLanguageDevelopmentforELLCertificate.aspx>.

SCHOOL LIBRARY ENDORSEMENT

School Library and Instructional Leadership MA

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Website: www.ucdenver.edu/education/schoollibrary

Faculty

Information about SLIL faculty is available online at www.ucdenver.edu/education/schoollibrary.

Program Overview

The school library and instructional leadership program within the ILT master's degree program is a nationally recognized NCATE-AASL revised and approved school library media education program that leads to the Colorado Department of Education endorsement for school libraries. The program integrates information literacy standards through the use of collaborative planning, as approved by the American Association of School Libraries. Technology and library resources are seen as tools to increase student achievement by integrating the information literacy standards with the content standards of the classroom teacher. The program adheres to the constructivist theory of resource-based learning and promotes an appreciation of children's and adolescent literature. The program believes that school librarians require education as a teacher as well as a librarian, as advocated by the American Library Association and the International Association of School Libraries. As a school librarian, you will provide collaborative instruction, information access and leadership through the management of your library program and the library resources. Courses are offered in a completely online program, or a monthly Saturday cohort scheduled in communities across Colorado.

Once admitted, students begin a plan of study that typically takes about two years to complete. Consult the SLIL website for more information about specific plans of study, course offerings and expectations of cohort groups.

Admission Requirements

Admission decisions are based on undergraduate and graduate grades, external letters of recommendation and fit with the program as reflected in a letter of intent. In some cases, results of a test (GRE) are also required. Prospective students should consult the SLIL program website for complete admission procedures and requirements.

Professional Expectations

All students in the SLIL program are expected to show a strong commitment to the program and to maintain high academic, professional and ethical standards. Inappropriate or unprofessional conduct is cause for discipline or dismissal from the program.

Technology Expectations

The SLIL program uses computers and related technologies either as a focus or a tool for learning. Students are expected to obtain an e-mail account and check it frequently. In addition to on-campus facilities, SLIL students need convenient access to Internet-connected computers off campus, either at their place of work or at home. In addition to textbooks, software purchases may be required or recommended for specific classes.

Program Requirements

School library students also have a choice between endorsement-only and full master's programs. The master's program requires a minimum of 36 graduate semester hours. Students complete a plan of study consisting of courses and professional field experience. To receive Colorado teacher endorsement, students are required to pass the PLACE test in school library. This is a Colorado Department of Education requirement.

An Example of Two-Year Plan for School Library Program

Courses are offered only in certain semesters and courses should be taken in a particular sequence based on when you start the program. Advising is required prior to enrolling in a course, even as a non-degree student, in order to ensure the most effective course sequencing and availability of courses.

Typical First Year

Fall	Spring	Summer
SCHL 5530 - Foundations of School Librarianship * LCRT 5790 - Children's Literature Through the Ages ***	SCHL 5020 - Collection Development	SCHL 5110 - Integrating Instructional Technology Practices in School Libraries (MA only) LCRT 5201 - Adolescent Literature . ***

Second Year

Fall	Spring	Summer
SCHL 5160 - Managing School Library Programs SCHL 6720 - Research In Information And Learning Technologies *** SCHL 5911 - School Library Field Experience-Elementary **	SCHL 5030 - Information Literacy and Reference SCHL 5912 - School Library Field Experience-Secondary **	SCHL 5040 - Information Storage and Utilization SCHL 6999 - Leadership and Practice in School Libraries (MA Only)

* SCHL 5530 Foundations in School Librarianship should be taken as the first course in your program.

** 80 hours of field experience hours are required. Field experience may be completed over the course of a year; online seminar hours will be completed during the field experience timeframe. Field experiences are completed within a pre-approved school library. See Field Experience Policy for more information.

*** LCRT 5201; LCRT 5790; and SCHL 6720 are offered on-campus in other semesters as well.

Comprehensive Examination for All SLIL Students

The comprehensive exam consists of a professional portfolio where in students demonstrate program competencies through work products and related accomplishments. The portfolio is created throughout the student's program and submitted for faculty review the final semester. For more information, see the ILT website. For complete details about the SLIL program and endorsement requirements, see the ILT website at www.ucdenver.edu/education/schoollibrary.

Undergraduate Certificate Programs

BIOCHEMISTRY CERTIFICATE

A grade of C (2.0, not C-) or better in each of the Prerequisites is required, although these courses do not have to be completed at CU Denver. The Required Courses including electives must be completed at CU Denver with a grade of C (2.0, not C-) or better in each class, and a minimum GPA of 2.7 among the Required Courses including electives counted toward the Certificate.

Certificate Requirements

Prerequisites

Prerequisites for the certificate(These courses do not have to be completed at CU Denver)

- 2 semesters General Chemistry, with laboratories
- 2 semesters General Biology, with laboratories
- 2 semesters Organic Chemistry, with at least 1 semester laboratory

A grade of C (2.0, not C-) or better in each of the Prerequisites is required

Required Courses

(14-16 credits)

- CHEM 4810 - General Biochemistry I
-OR-
- CHEM 3810 - Biochemistry
- CHEM 4820 - General Biochemistry II
- BIOL 3611 - General Cell Biology

Electives

(Choose 2 of the following)

- CHEM 3011 - Inorganic Chemistry
- CHEM 3111 - Analytical Chemistry

- CHEM 4121 - Instrumental Analysis
- CHEM 4511 - Physical Chemistry I
- CHEM 4521 - Physical Chemistry II
- CHEM 4828 - Biochemistry Lab
3-credit internship or independent study in biochemistry, with prior approval

- PHYS 3151 - Biophysics Outlook I
-and-
- PHYS 3161 - Biophysics Outlook II
(these two 1-credit courses together fulfill one elective requirement)
- PHYS 3451 - Biophysics of the Cell
- BIOL 3124 - Introduction to Molecular Biology
-OR-
- BIOL 4128 - Topics in Molecular Biology
- BIOL 3225 - Human Physiology
- BIOL 3832 - General Genetics
- BIOL 4125 - Molecular Biology Laboratory
- BIOL 4126 - Molecular Genetics
- BIOL 4144 - Medical Microbiology
- BIOL 4064 - Advanced Cell Biology
- BIOL 4068 - The Cell Cycle
- BIOL 4550 - Cell Signaling
 - Other CHEM 4000-level advanced biochemistry lecture courses, PHYS 3000/4000-level biophysics courses, and BIOL 4000-level lecture courses with a molecular emphasis may be added to this list in the future, as such courses become offered.

Graduate Certificate Programs

APPLIED STATISTICS GRADUATE CERTIFICATE

► Graduate School Rules apply to this program.

Coordinator: Stephanie Santorico:

Telephone: 303-315-1714

E-mail: Stephanie.Santorico@ucdenver.edu

Web site: www.math.ucdenver.edu

There is a growing need for qualified statistical analysts of the ever-increasing amounts of data collected in business, industry, and government. The Certificates in Applied Statistics program is designed to give students a strong background in statistical methodology and data analysis in preparation for opportunities in the work force or for graduate studies.

Students will gain competence in such topics as descriptive statistics, estimation, confidence intervals, probability and inferential techniques, simple and multiple regression, analysis of variance, and more-advanced topics. Students can focus on a particular application area such as economics, psychology,

sociology, geology or environmental science through the choice of an elective course and the data analysis project.

Admissions Requirements

Applicants must hold a baccalaureate degree (not necessarily in mathematics) from an accredited college or university (or demonstrate completion of work equivalent to the baccalaureate degree given at CU Denver) with at least a 3.0 grade point average (GPA). Students must also have 24 semester hours of mathematics, at least 18 of which are upper division courses with a grade of B- or better. These courses must include calculus 1, 2 and 3 as well as linear algebra and probability at the undergraduate level. Exceptions to admission criteria may be made on a case by case basis.

Certificate Requirements

Four courses and a 1 hour independent study are required as detailed below.

Two Fundamental Courses in Statistics

- MATH 5320 - Introduction to Mathematical Statistics
- MATH 5387 - Applied Regression Analysis

One Advanced Applications Course

Topics vary from year to year. Course must be pre-approved by certificate coordinator and cannot be MATH5830. Representative courses include:

- MATH 5394 - Experimental Designs
- MATH 6388 - Advanced Statistical Methods for Research
- MATH 6393 - Introduction to Bayesian Statistics

One Elective

Any statistics course in the Department of Mathematical and Statistical Sciences at the 5000 level or higher (must be pre-approved by the Certificate Coordinator). MATH5830 cannot apply towards the certificate.

- ECON 5150 - Economic Forecasting
- ECON 5813 - Econometrics I
- ECON 5823 - Econometrics II
- ENVS 5600 - Applied Statistics for the Natural Sciences
- GEOL 5770 - Applied Statistics for the Natural Sciences
- SOCY 5183 - Seminar: Quantitative Data Analysis

Equivalent course pre-approved by the Certificate Coordinator

Project Requirement

An independent data analysis project with a report and presentation to demonstrate proficiency with data analysis techniques and a statistical computing software package. Enroll for one hour of MATH 5840, Independent Study, or in an equivalent course pre-approved by the Certificate Coordinator.

Additional Requirements

Students must maintain a 3.0 GPA or above in these courses with no credit given for courses with grades below B-. Since a certificate is a University of Colorado Denver certification of a student's specialized knowledge in an advanced subject area, all courses in the certificate program must be taken in residency at University of Colorado Denver. Students must be enrolled in one course per year to maintain their status in the certificate program. Certificates must be completed within 3 years from matriculation.

CULTURALLY RESPONSIVE URBAN EDUCATION (CRUE) GRADUATE CERTIFICATE

Culturally and Linguistically Diverse Education

Requirements for CLDE Program

(Degree/Endorsement or Certificates - TESOL, CRUE, TCLD)

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Faculty

Information about faculty in this program is available at our website

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/OurFaculty.aspx>. The faculty of linguistically diverse education (CLDE) believe that effective teaching requires an awareness of and the ability to respond to individual differences. CLDE faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Program Options

The CLDE program offers options leading to the following:

- a Master of Arts in Curriculum and Instruction
- the Colorado Endorsement for Culturally and Linguistically Diverse Education

- a Teaching English to Speakers of Other Languages (TESOL) certificate
- a Culturally Responsive Urban Education (CRUE) certificate
- a Teaching for Cultural and Linguistic Diversity (TCLD) certificate

The program is intended for:

- novice teachers who have completed their Colorado teaching credentials in CU Denver's graduate teacher education licensure program and are enrolled in the MA in curriculum and instruction with an emphasis in CLDE (see 27 semester-hour option)
- veteran elementary and secondary teachers returning to graduate studies for the master's degree (36 semester hours)
- veteran elementary and secondary teachers returning to acquire Colorado endorsement credentials (24 semester hours)
- individuals interested in teaching English abroad (TESOL: 15 semester hours)
- elementary and secondary teachers who desire preparation in better meeting the needs of culturally diverse learners (CRUE: 9 semester hours)
- veteran elementary and secondary teachers returning to graduate studies for a certificate to aid them in helping their English language learners succeed (TCLD: 9 semester hours)
- individuals interested in teaching adults (MA: 36 semester hours)

The MA is a field-based professional development program involving university faculty and practicing CLDE instructors in public school and intensive English settings. Courses, laboratories and practica emphasize scholarly approaches to complex problems of practice and feature interactive, collaborative and practical approaches to working with English language learners.

We advocate a sociocultural approach to issues of language and learning, acknowledging the legitimacy of linguistic and cultural differences and recognizing that academic settings represent important socializing forces in students' lives. Because of this, we emphasize the "whole learner" in our teaching and in teacher education and teacher development, understanding that individuals do not merely add a language to their repertoire of communication but make fundamental identity adjustments as they progress in their studies. For this reason, all our course work, laboratories and practica experiences are field-based, putting our program participants in contact with veteran teachers and English language learners. We draw heavily on recent scholarship in collaborative approaches to school-university partnerships and systemic school change in developing classroom methods and materials, curricula and teacher development experiences.

The MA program also provides a foundation in teaching English in a variety of contexts in the United States and abroad. Teachers who work in CLDE programs or in other content areas (such as art, language arts, math, music, science, social studies or technology), but who wish to integrate CLDE principles and strategies into their instruction for their English language learners, will find the MA program relevant to their interests and goals.

Course work includes language teaching methodology, language acquisition, linguistic analysis of English, multicultural foundations, assessment, literacy and other areas. This program has been

developed as an advanced course of study for practicing teachers or individuals with some teaching experience.

Applicants who are new to teaching, and who wish to teach in U.S. K–12 public school settings, should inquire about the teacher education licensure program. Applicants who are new to teaching, but who do not need a teaching license (certification) because they do not wish to teach in U.S. public schools, may consider the TESOL certificate to gain initial teaching experiences before applying for the MA.

Program Requirements and Courses

To complete the CLDE program and earn a master's degree and/or endorsement, or to earn a TESOL certificate, students must complete the appropriate course work as outlined in the table below.

Requirements for CLDE Program (Degree/Endorsement or TESOL Certificate)					
Course	MA for Teaching Adults (without CDE Endorsement in CLDE)	MA and CDE Endorsement in CLDE	CDE Endorsement in CLDE Only	MA and CDE Endorsement in CLDE <i>(when added to CU Denver's graduate teacher education licensure program)</i>	TESOL Certificate
CLDE 5010 - Foundations of Language, Literacy and Culture	Required	Required	Required	Required	
CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn	Required	Required	Required	Required	
<i>One course from culture options:</i>					
CLDE 5140 - Multicultural Education or CLDE 5150 - Culture of the Classroom	Select One	Select One	Not Required	Not Required	

CLDE 5070 - Linguistic Analysis of English: Implications for Teaching	Required	Required	Required	Required	Required
CLDE 5030 - Language & Literacy Acquisition Div Lrn	Required	Required	Required	Required	Required
CLDE 5820 - Techniques in Teaching English as a Second Language	Required	Required	Required	Required	Required
CLDE 5050 - Assessment & Advocacy for Diverse Learners	Required	Required	Required	Required	Required
<p><i>One course from field-based teaching options:</i></p> <p>CLDE 5825 - Methods and Materials of Language Teaching or CLDE 5826 - Language Teaching Lab or LCRT 5770 - Effective Literacy Instruction for Second Language Learners (DPS or APS teachers only)</p> <p>Other courses such as LCRT 5730, LCRT 5020, or SPED 5740 may be used with Faculty Advisor approval only</p>	5826 preferred	<p>Elem: 5825 preferred Sec: 5826 preferred</p>	<p>Elem: 5825 preferred Sec: 5826 preferred</p>	<p>Elem: 5825 preferred Sec: 5826 preferred</p>	5826
CLDE 5035 - Language and Literacy: Acquisition, Processes, and Cognition, Part II	Required	Required	Not Required	Not Required	
CLDE 6912 - Seminar and Practicum in Literacy and Language, ESL and Bilingual Education	Required	Required	Required	Required	
<p><i>One course from research and evaluation methodology:</i></p> <p>RSEM 5050 - Classroom Assessment or RSEM 5080 - Research In</p>	Select One	Select One	Not Required	Select One	

Schools or Any other graduate-level RSEM course with advisor approval					
<i>One course from educational psychology:</i> EPSY 5110 - Human Learning or EPSY 5220 - Adult Learning and Education or Any other graduate-level EPSY course with advisor approval	Select One	Select One	Not Required	Not Required	
Cumulative Experience: Final Reflection	Required	Required	Required	Required	
LDE PLACE Exam (not required for students beginning Spring 2013 or later)		Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	
Total Semester Hours	36	36	24	27	15

Culturally Responsive Urban Education (CRUE) Certificate Requirements

Those considering the CRUE certificate must complete the following:

- CLDE 5170 - Race, Class and Culture in Public Schools Semester Hours: 3
- CLDE 5180 - Working with Communities and Families Semester Hours: 3
- CLDE 5190 - Culturally Responsive Pedagogy and Practices Semester Hours: 3

Total: 9 Hours

This certificate is only offered as a cohort, through our district partnerships. Additional information about the CRUE certificate can be found at

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/CulturallyResponsiveUrbanEducation.aspx>

Teaching for Cultural and Linguistic Diversity (TCLD) Certificate

The TCLD Certificate (formerly known as Content Instruction for English Learners (CIEL) is a graduate certificate providing a foundation in teaching content to students whose first language is other than English. The program is designed for content-area teachers (math, science, social studies, etc.) who have English language learners in their classes. This certificate is also valuable to content area coaches or administrators who provide support for teachers with English language learners. The certificate is appropriate for public school and community college personnel.

The certificate totals nine credit hours with the specialty area in culturally and linguistically diverse education (CLDE). All courses are three graduate credit hours and may be applied directly toward a full master's degree in Curriculum and Instruction with an emphasis in LDE while also fulfilling the requirements toward a Colorado Culturally and Linguistically Diverse Education Endorsement. Courses may also be applied toward the Teaching English to Speakers of Other Languages (TESOL) Certificate. Additional courses and applications are required for these programs. Please see our website for additional information on this certificate: <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/TeachingforCulturalandLinguisticDiversityCertificate.aspx>.

The certificate may be completed in one year. Those pursuing the TCLD certificate must complete the following:

- CLDE 5030 - Language & Literacy Acquisition Div Lrn
- CLDE 5820 - Techniques in Teaching English as a Second Language
- LCRT 5770 - Effective Literacy Instruction for Second Language Learners

The TCLD certificate is being offered only through our district partnerships.

Culminating Experience: Final Reflection

The culminating experience project is required for the CLDE endorsement, counts as the comprehensive exam for the master's degree and permits you to document your development over the course of your program. Culminating Experience Projects are reviewed by CLDE faculty members. The process is reviewed in every class as each of the PBAs is completed in the classes, helping students to update their culminating experience projects throughout the program. For more culminating experience project guidelines, visit the website at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LinguisticallyDiverseEducationResources.aspx>.

PLACE Exam for Linguistically Diverse Education Endorsement

To add the endorsement to their teaching license, students beginning the program prior to Spring 2013 must pass the PLACE (Program for Licensing Assessments for Colorado Educators) exam for linguistically diverse education, secure and submit the appropriate paperwork from the Colorado Department of Education, and pay fees required for the PLACE and for the endorsement paperwork. Information about PLACE is online at www.place.nesinc.com. Students beginning Spring 2013 or later will be eligible for the Culturally and Linguistically Diverse Education Endorsement and will not be required to pass the PLACE exam to receive the CLDE endorsement.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the summer semester, three-to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester and up to two courses each summer. Students may simultaneously complete requirements for the MA and the endorsement for culturally and linguistically diverse education (some courses are offered only once per year.)

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

DEMOCRACY AND SOCIAL MOVEMENTS GRADUATE CERTIFICATE

► Graduate School Rules apply to this program.

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The Democracy and Social Movements (DSM) certificate program in political science introduces students to current research and practice concerning the complex interplay between social movements and the processes for initiating and consolidating democracies. While contentious political activities have historically contributed to democratization, they have also led to repression, ethnic conflict and substantive human rights violations. Among the several DSM issues requiring scholarly investigation are:

- Viable ways to contest authoritarian regimes;
- The means for constituting a cohesive civil society after a civil war or revolution;
- The relationships between social equality, distributive justice and democracy;
- The relative efficacy of violence and of nonviolent strategies to institute and sustain regime change;
- The challenges of peacebuilding, transitional justice and democratization in societies torn by internal conflict;
- The growth of transnational social movements in response to globalization;
- The contextual factors determining the specific character of any social movement and of democratic regimes;
- The means by which democratic regimes are consolidated and deepened; and
- The ways in which democratization processes and social movements influence law and public policy, public discourse and culture, the use and design of public/private spaces and the socio-economic outcomes.

Students in the DSM program examine relevant theoretical and methodological literature in these

aforementioned areas and apply it to current circumstances by taking specified courses in each of the four major subfields of political science: American, comparative, international politics and political theory.

The DSM certificate program is designed to appeal to persons who want to focus their studies on the recent state of democratization processes around the world, including explorations of the ways in which social movements can catalyze or even threaten those democratization processes. Students in the program will explore how globalization is simultaneously fragmenting and uniting the globe, enhancing wealth and impoverishing people, consolidating human rights regimes and transgressing them and provoking questions about the boundaries of our ethical commitments and the means whereby communities strive for democracy and justice.

By permitting students to devise a curriculum that integrates academic and experiential, the DSM program should enhance students' scholarship, civil engagement and prospects for further study and employment in rapidly growing fields like international/community development, the non-governmental organization sector, civic education/engagement and human rights.

Requirements

The graduate certificate requires three program courses and the capstone seminar [12 total credits; all must be graduate-level (5000 or above) courses]. Field work/experiential learning is encouraged and promoted throughout the graduate program, but it is not a certificate requirement.

All courses for the certificate must be taken in residency at CU Denver, and completed with a grade of *B* or higher. A minimum GPA of 3.0 is required for the graduate certificate.

All students, whether working toward a degree or as a non-degree student, are eligible for the certificate.

Choose one course from each of the subfields below:

Courses listed below are examples of courses that can be selected for the certificate, but other graduate-level courses (5000-level or above) in political science may be applied with the consent of the program advisor.

Note: Some courses appear more than once in different subfields; students should choose four different subfield courses, not count one toward two subfields.

International Politics

- PSCI 5224 - Dictatorships in 21st Century
- PSCI 5225 - Democracy and Democratization
- PSCI 5265 - Social Justice And Globalization
- PSCI 5808 - Strategies of Peacebuilding

Comparative Politics

- PSCI 5145 - Indigenous Politics
- PSCI 5224 - Dictatorships in 21st Century
- PSCI 5225 - Democracy and Democratization
- PSCI 5256 - Seminar: National Question and Self-Determination
- PSCI 5555 - International Women's Resistance
- PSCI 5808 - Strategies of Peacebuilding

American Politics

- PSCI 5094 - Seminar: Urban Politics

Political Theory

- PSCI 5265 - Social Justice And Globalization

Capstone

- PSCI 5206 - Social Movements, Democracy and Global Politics

Total: 12 Hours

DESIGN BUILD GRADUATE CERTIFICATE

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The College of Architecture and Planning offers a graduate certificate in the emerging area of design build as an extension of the MArch program. The certificate course work totals 18 credit hours and emphasizes design build from the designer's point of view.

Certificate Requirements

Five courses totaling 18 semester hours can be applied to the MArch graduation requirements:

- ARCH 6370 - Introduction To Design Build
- ARCH 6471 - Managing Quality & Risks
- ARCH 6472 - Architecture in a Single Source Project Delivery
- ARCH 6373 - Construction in Design Build
- ARCH 6170 - Capstone Design Studio
taken with
- ARCH 6171 - Capstone Design Seminar

Total: 18 Hours

DESIGNING E-LEARNING ENVIRONMENTS GRADUATE CERTIFICATE

The DeE certificate is an 15-semester-hour program offered entirely online that focuses specifically on the skills needed to design and facilitate online learning opportunities for learners in K–12, higher education and corporate settings. This program is perfect for educators who are not interested in a graduate degree. More information is available at www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/MASTERS/ILT/Pages/eLearning.aspx.

[Sample plan for eLearning Certificate](#)

Year 1

Fall: INTE 5660 - Self-Paced eLearning Modules

Spring: INTE 5670 - Webinars and Synchronous Learning Events

Summer: INTE 5680 - Integrating Media in eLearning Environments

Comprehensive Examination for All ILT Students

The comprehensive exam consists of a professional portfolio where in students demonstrate program competencies through work products and related accomplishments. The portfolio is created throughout the student's program and submitted for faculty review the final semester.

For more information or for complete details about ILT programs, see the ILT website.

Digital Storytelling Graduate Certificate

A 9-semester-hour certificate in digital storytelling includes face-to-face workshops as well as a 4-semester-hour online course. Participants develop digital stories using nonlinear video editing programs and other presentation tools. They learn to integrate digital storytelling methods into existing courses and curricula for all ages.

EARLY AND ADOLESCENT LITERACY CERTIFICATES

[Literacy, Language and Culturally Responsive Teaching](#)

[MA Requirements for the Reading and Writing Option and Secondary English Education Option, plus Reading Teacher Endorsement and Certificate Programs](#)

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Click on any of the following to go right to that information:

- Reading and Writing
- Secondary English
- Early and Adolescent Literacy Certificates
- Literacy and Language Development for English Language Learners Certificate

Faculty

Information about faculty in this program is available online at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/Our-Faculty.aspx>.

The faculty of literacy, language and culturally responsive teaching (LLCRT) believe that effective teaching requires an awareness of and the ability to respond to individual differences. LLCRT faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Reading and Writing Option and Reading Teacher Endorsement

This master's program is designed for K-6 and 7-12 teachers. This program is a credentialed program meeting the Colorado Department of Education requirements for the reading teacher endorsement. Please note that the Colorado Department of Education also requires 2 years of post-licensing teaching experience and a passing score on the Reading Teacher PLACE exam for the application for the reading teacher endorsement after graduation from the Reading and Writing program. Therefore, students who obtain a master's degree emphasizing reading and writing are certified to hold positions in public and private schools as special developmental and reading teachers in K-6 or 7-12. This program is also valuable for elementary and secondary teachers who wish to enhance reading and writing instruction in their classrooms.

By placing emphasis on the reading, writing and oral and visual language development of culturally, linguistically and academically diverse student populations, this master's program is at the forefront of the field. Language is approached from a socio-psycholinguistic perspective that emphasizes the learner's construction of meaning rather than the learning of isolated skills. Importance is placed on using theory, inquiry and personal reflection to inform classroom practice. The program prepares teachers to become decision makers capable of developing learner-centered curricula where each student's reading and writing abilities are assessed to address developmental or special needs.

Curriculum

Course offerings lead to an MA degree in curriculum and instruction with an emphasis in reading and writing, as well as a reading teacher endorsement, at one of two levels: K-6 or 7-12.

Those who have completed University of Colorado Denver's graduate-level teacher education licensure program must earn an additional 27 semester hours to obtain the MA and endorsement. Those who

completed licensure through other means must earn an additional 36 semester hours to obtain the MA and endorsement.

Teachers may add a reading teacher endorsement to an already-earned master's degree in education by taking those courses listed under the chosen endorsement level. (In the state of Colorado, the reading teacher endorsement cannot simply be added to a bachelor's degree.) Electives and core courses are not required for those seeking the endorsement only. Two additional courses must be taken in other areas specified by the Colorado Department of Education. In many cases, previous master's degree courses will satisfy this requirement.

Each student's course plan is developed in conjunction with his/her advisor. Please review <http://www.ucdenver.edu/academics/college/SchoolOfEducation/CurrentStudents/Resources/Pages/LLCResources.aspx> for the recommended course sequence.

Requirements for Reading and Writing Program (Degree/Endorsement Options)						
	ELEMENTARY (K-6)			SECONDARY (7-12)		
Course	MA & CDE Endorsement	MA & CDE Endorsement (when added to CU Denver's graduate teacher education licensure program)	CDE Endorsement Only	MA & CDE Endorsement	MA & CDE Endorsement (when added to CU Denver's graduate teacher education licensure program)	CDE Endorsement Only
LCRT 5020 - Workshop in Literacy and Language Teaching	Required		Required	Required	Required	Required
LCRT 5810 - Wksp: Lang Acq & Development	Required	Required	Required	Required	Required	Required
LCRT 5010 - Foundations of Language	Required	Required	Required	Required	Required	Required
LCRT 5710 - Primary	Required	Required	Required			

Literacy: Pre-3rd Grade						
LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12	Required	Required	Required	Required	Required	Required
LCRT 5730 - Language and Literacy Across the Curriculum	Required		Required	Required		Required
Children's literature course, per advisor approval	Select one	Select one	Select one			
LCRT 5201 - Adolescent Literature				Required	Required <i>(waived if taken as part of English Licensure)</i>	Required
LCRT 6910 - Seminar and Practicum in Literacy and Language, K-6	Required	Required	Required			
LCRT 6911 - Seminar and Practicum in Literacy and Language, 7-12+				Required	Required	Required
LCRT 5055 - Linking Assessment and Instruction in Language and Literacy	Required	Required	Required	Required	Required	Required
LCRT 6915 - Seminar and	Required	Required		Required	Required	Required

Practicum in Literacy Professional Development						
Core course in Research and Evaluation Methodology - see list below	Select one	RSEM 5080 (preferred)		Select one	RSEM 5080 (preferred)	
Interdisciplinary core course - see list below	Select one			Select one		
Graduate-level School of Education and Human Development elective				Select one		
Portfolio	Required	Required		Required	Required	
PLACE Exam	Required	Required	Required	Required	Required	Required
Total Semester Hours	36	27	27	36	27	27

Secondary English Education Option

The master's program in secondary English education is designed to enhance the preparation of middle and high school English/language arts teachers. Students complete course work in language development, assessment and field experiences. With the help of their advisor, they also select specific courses from the English Department or within the School of Education and Human Development that provide a well-rounded repertoire of knowledge and skills to fulfill the needs of an English educator. Special consideration is given to working with diverse ethnic populations.

Program Requirements

To earn a master of arts degree in curriculum and instruction with an emphasis in secondary English education, students must complete the following:

- 30 graduate semester hours in English education
- 6 graduate semester hours of core courses
- performance-based assessments that culminate in a portfolio finalized in the last semester of the program as fulfillment of the MA comprehensive exam requirement

Each student's course plan is developed in conjunction with his/her advisor. Please review <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/L>

LCResources.aspx for recommended course sequence.

LCRT 5055 - Linking Assessment and Instruction in Language and Literacy Semester Hours: 3

LCRT 5201 - Adolescent Literature Semester Hours: 3

LCRT 5200 - Theory and Methods of English Education Semester Hours: 3

LCRT 5810 - Wksp: Lang Acq & Development Semester Hours: 3

LCRT 5010 - Foundations of Language Semester Hours: 3

LCRT 6911 - Seminar and Practicum in Literacy and Language, 7-12+ Semester Hours: 3

Research and Evaluation Methodology core course (see list below).

Interdisciplinary core course (see list below).

Four electives, per advisor approval, from the English department and/or the School of Education & Human Development. The following are recommended:

LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12 Semester Hours: 3 **or**

ENGL 5110 - Denver Writing Project Semester Hours: 3

Courses in working with English language learners and in instructional technology may also be helpful. For a technology course, please contact the professor about prerequisite knowledge.

Total: 36 semester hours

Program Requirements--When Added to CU Denver's Graduate Teacher Education Licensure Program

MA in curriculum and instruction with emphasis in secondary English education, when added to CU Denver's graduate teacher education licensure program:

- 18 graduate semester hours
- performance-based assessments that culminate in a portfolio finalized in the last semester of the program as fulfillment of the MA comprehensive exam requirement

Each student's course plan is developed in conjunction with his/her advisor. Please see website <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LCResources.aspx> for recommended course sequence.

FNDS 5050 - Critical Issues in American Education Semester Hours: 3 **or**

SPED 5300 - Collaborating in Schools and Communities Semester Hours: 3

RSEM 5080 - Research In Schools Semester Hours: 3

Four electives, per advisor approval, from the English department and/or the School of Education & Human Development. The following are recommended:

LCRT 5720 - Writing: Process, Development, and Teaching Grades 3-12 Semester Hours: 3 **or**

ENGL 5110 - Denver Writing Project Semester Hours: 3

Courses in working with English language learners and in instructional technology may also be helpful. For a technology course, please contact the professor about prerequisite knowledge.

Total: 18 semester hours

Core Courses

Research and Evaluation Methodology

RSEM 5050 - Classroom Assessment Semester Hours: 3

RSEM 5080 - Research In Schools Semester Hours: 3

RSEM 5100 - Basic Statistics Semester Hours: 3

RSEM 5120 - Introduction to Research Methods Semester Hours: 3

RSEM 5110 - Introduction to Measurement Semester Hours: 3

Interdisciplinary

EPSY 5100 - Advanced Child Growth and Development Semester Hours: 3

EPSY 5140 - Advanced Adolescent Growth and Development Semester Hours: 3

EPSY 5220 - Adult Learning and Education Semester Hours: 3

EPSY 6200 - Human Development Over the Life Span Semester Hours: 3

FNDS 5050 - Critical Issues in American Education Semester Hours: 3

FNDS 5420 - History and Philosophy of Education: Twentieth Century America Semester Hours: 3

LCRT 5140 - Multicultural Education Semester Hours: 3

LCRT 5150 - Culture of the Classroom Semester Hours: 3

CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn Semester Hours: 3

CLDE 5820 - Techniques in Teaching English as a Second Language Semester Hours: 3

Cumulative Portfolio

The MA portfolio counts as the comprehensive exam for the master's degree. The portfolio is an accumulation of the performance based assessments completed during program courses and reflects on the student's development over the course of the degree program. Reading and writing students must include confirmation of Reading Teacher PLACE exam registration in their portfolios. Information about the PLACE is online at www.place.nesinc.com.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the summer semester, three- to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester, and up to two courses each summer. Plan carefully because courses are intended to build upon each other, and some courses are only offered once a year.

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

[Early and Adolescent Literacy Certificates](#)

The early literacy certificate and adolescent literacy certificate each include three graduate-level courses (for a total of 9 semester hours) and are conveniently offered entirely online. They are specifically designed to help licensed teachers develop the skills necessary to reach student readers. To find out more, please visit www.ucdenver.edu/education/cpe or email cpe@ucdenver.edu.

[Literacy and Language Development for English Language Learners Certificate](#)

This graduate certificate program is for teachers of English Language Learners, and was developed in response to public school districts' need to improve reading and writing achievement for students whose first language is other than English. The program is designed for teachers of elementary and secondary grades and those teaching special reading classes. More information can be found at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/LiteracyandLanguageDevelopmentforELLCertificate.aspx>.

EMERGENCY MANAGEMENT AND HOMELAND SECURITY CONCENTRATION/GRADUATE CERTIFICATE

The graduate concentration in Emergency Management and Homeland Security is available as a concentration within the MPA and MCJ programs, or as a stand-alone certificate for non-degree students. This concentration, which requires 15 credit hours (5 courses), provides advanced education in the management of emergencies, hazards, disasters, and homeland security. Students completing this sequence will have the knowledge and skills necessary to assess and manage a broad range of hazards and disasters, and to understand the policy environment in which emergency management occurs.

Requirements

Students take two of the following three required courses as well as three elective courses approved by their advisor. The three elective courses may be drawn from the student's particular area of interest, such as policy and management, spatial analysis and quantitative assessment, or public safety.

- GEOG 5230 - Hazard Mitigation and Vulnerability Assessment
- PUAD 5650 - Disaster and Emergency Management Policies
- PUAD 5450 - Law of All-Hazards Management

ENVIRONMENTAL POLICY, MANAGEMENT AND LAW CONCENTRATION/GRADUATE CERTIFICATE

The graduate concentration in Environmental Policy, Management and Law is available as a concentration within the MPA program, or as a stand-alone certificate for non-degree students. This concentration, which requires 15 credit hours (5 courses), provides an understanding of how our natural environment is governed and affected by relationships between various entities, including:

- * legislatures
- * administrative agencies
- * courts
- * federal, state, and local governments
- * government and the nonprofit and private sectors
- * government and the public it has been established to serve

The core of the EPML program requires completion of two required graduate seminars, all taught by faculty who specialize in environmental affairs. Then students select three elective courses under faculty advisement.

Requirements

Students must take the following two courses:

- PUAD 5631 - Seminar in Environmental Politics and Policy
- PUAD 5633 - Seminar in Natural Resource and Environmental Health Law

Pre-approved Electives (partial list)

An additional three electives are required, and must be approved by the Concentration Director.

- CVEN 5393 - Water Resources Development and Management
- CVEN 5401 - Introduction to Environmental Engineering
- CVEN 5402 - Integrated Environmental Modeling
- CVEN 5480 - Hazardous Wastes and Site Remediation
- CHEM 4700 - Environmental Chemistry
- CHEM 5710 - Air Pollution Chemistry
- CHEM 5720 - Atmospheric Sampling and Analysis
- URPL 6250 - GIS Analysis
- URPL 6500 - Environmental Management
- URPL 6549 - Environmental Impact Assessment
- URPL 6510 - Energy/Natural Res. Planning
- ENVS 5030 - Environmental Geology
- ENVS 5500 - Topics in Environmental Sciences
- ENVS 5730 - Air Quality Modeling and Analysis
- ENVS 6200 - Risk Assessment
- ENVS 6210 - Human Health and Environmental Pollution
- ENVS 6220 - Toxicology
- ENVS 6230 - Environmental Epidemiology
- BIOL 5154 - Conservation Biology
- BIOL 5445 - Applied Environmental Biology
- GEOG 5090 - Environmental Modeling with Geographic Information Systems
- GEOG 5265 - Sustainability in Resources Management
- PUAD 5310 - Policy Formulation & Implementation

- PUAD 5320 - Public Policy Analysis
- PUAD 5410 - Administrative Law
- PUAD 5420 - Law and Public Policy
- PUAD 5440 - Negotiation and Conflict Resolution
- PUAD 5625 - Local Government Management
- PUAD 5650 - Disaster and Emergency Management Policies
- PUAD 5710 - Public Sector Technology

Certificate Requirements

Students must take the following two courses:

- PUAD 5631 - Seminar in Environmental Politics and Policy
- PUAD 5633 - Seminar in Natural Resource and Environmental Health Law

An additional three electives are required, and must be approved by the Concentration Director.

Total: 15 Hours

ENVIRONMENTAL SCIENCES GRADUATE CERTIFICATE

► Graduate School Rules apply to this program.

The graduate-level certificate in environmental sciences has seven options: air quality, ecosystems, environmental health, environmental science education, geospatial analysis, hazardous waste and water quality. Each option comprises four courses and is designed to approach an environmental issue from various disciplines. To earn a certificate, students are required to satisfactorily complete the courses in the option of their interest. These courses may be taken as electives within an MS degree program or through nondegree admission. Students must have the prerequisites for each course and must meet the requirements listed. Contact the option advisor for the particular option of interest before starting. A certificate will be issued upon proof of satisfactory completion of the courses. For an MS degree, students must coordinate the option courses with electives in their program. The listings of courses in each option are in the electives section of the master's program information.

GENDER-BASED VIOLENCE CONCENTRATION/GRADUATE CERTIFICATE

A student may choose to complete a concentration in gender-based violence studies as part of the MCJ or MPA degree, or the gender-based violence program can be completed by non-degree students as a stand-alone graduate certificate. The program on gender-based violence provides an interdisciplinary perspective on crime, the formulation of laws and codes, the criminal legal system and its intersection with gender and violence. Students seeking a gender-based violence concentration must complete 15 semester hours related to gender-based violence, which are completed via intensive workshops that meet periodically throughout a two-year period.

Requirements

Students take the four specified courses below and one elective.

- PUAD 5910 - Nature and Scope of Interpersonal Violence
- PUAD 5920 - The Psychology of Interpersonal Violence
- PUAD 5930 - Interpersonal Violence Law and Public Policy
- PUAD 5940 - Interpersonal Violence Advocacy and Social Change

Total: 15 Hours

GEOGRAPHIC INFORMATION SCIENCE GRADUATE CERTIFICATE

► Graduate School Rules apply to this program.

GISci Certificate Advisor: Peter Anthamatten

Office: North Classroom, 5030-B

Telephone: 303-556-4277

E-mail: peter.anthamatten@ucdenver.edu

The intention of this certificate is to provide graduate-level students at CU Denver with the mechanisms for demonstrating capabilities in spatial techniques in the social and/or physical sciences. The focus of this certificate is on a broad array of geo-spatial techniques, including geographic information systems, remote sensing, cartography and statistics, which give students additional analytical skills for the workplace or graduate school. This certificate is designed for majors in GES as well as other disciplines.

Upon successful completion of the certificate, students will be able to:

- understand basic theoretical underpinnings of spatial analysis
- apply geo-spatial technologies to real-world problems
- have a basic knowledge of how to operate at least three types of software used in spatial analytical applications

Application

Spatial techniques are tools with broad application. Consequently, graduate students in any discipline will be admitted into the program. Non-degree seeking students with a prior bachelor's degree may also be admitted. Of the four core requirements, only the statistics class has prerequisites, including algebra and introductory calculus. Because of the technical nature of the GIS and remote sensing course work, however, some mathematical experience is desirable prior to beginning the program. Students may begin the program in any semester or during the summer by making arrangements with the GIS certificate coordinator, and completing and signing the Application for GISci Certificate.

Course Requirements

To obtain the certificate, students must complete four core courses, one elective, and a 1-credit independent study or applied GIS lab, totaling 16 hours. Although the four core courses may be taken in any order, students without any background in the geo-spatial sciences are advised to begin with GEOG

5080, Introduction to Geographic Information Systems, since this course familiarizes students with many key concepts used in the other classes. The statistics class and GEOG 5080 have prerequisites, including algebra and introductory calculus. Because of the technical nature of the GIS and remote sensing course work, some mathematical experience is desirable prior to beginning the program.

In order to obtain the certificate, students must have a 3.0 GPA in all courses required for the program, and the independent project must demonstrate proficiency in GIS in the student's area of interest. All core courses are offered on an annual or bi-annual basis. Any alterations to the program MUST be approved by the GISci Coordinator. The certificate will be awarded upon completion of the program.

Prerequisite Course

Note: this course does NOT count as part of the total credits required for the certificate.

- GEOG 2080 - Introduction to Mapping and Map Analysis

Core Courses

- GEOG 5080 - Introduction to GIS
- GEOG 5081 - Cartography and Computer Mapping
- GEOG 5060 - Remote Sensing I: Introduction to Environmental Remote Sensing
(May also take as GEOL 5060)
- GEOL 5770 - Applied Statistics for the Natural Sciences
- **OR** ENVS 5600 - Applied Statistics for the Natural Sciences
OR equivalent course approved by the GISci Certificate Coordinator

Total: 12 Hours

Elective (choose two from the following):

- GEOG 5070 - Remote Sensing II: Advanced Remote Sensing
(May also take as GEOG 5070)
- GEOG 5085 - GIS Applications for the Urban Environment
- GEOG 5090 - Environmental Modeling with Geographic Information Systems
- GEOG 5095 - Deploying GIS Functionality on the Web
- GEOG 5235 - GIS Applications in the Health Sciences
- CVEN 5382 - GIS Spatial Database Development
- CVEN 5385 - GIS Relational Database Systems
One of these courses may be substituted with an elective approved by the GISci Certificate Coordinator

Total: 6 Hours

Certificate Total: 18 Hours

GEOGRAPHIC INFORMATION SYSTEMS GRADUATE CERTIFICATE

This certificate is for students who want to get a taste of the geographic information systems (GIS) specialty area before applying for a graduate degree and for professionals who need a working knowledge of GIS. To earn the certificate in GIS, students must complete four of the core GIS classes, equaling 12 semester hours of work. Students can complete this certificate as a master's student or as a nondegree student. Students must already have a baccalaureate degree and must complete any course-specific prerequisites.

GEOSPATIAL INFORMATION SCIENCE GRADUATE CERTIFICATE

Contact: Mike Hinke

Telephone: 303-556-4172

E-mail: michael.hinke@ucdenver.edu

The College of Architecture and Planning offers a certificate in geospatial information science through participating departments. The emphasis of this certificate is on applications of GIS in urban and environmental planning and design fields. The certificate is available to any student earning one of our graduate degrees; to students earning cognate degrees, for example in the School of Public Affairs, College of Engineering and Applied Science or from the Department of Geography; and to nondegree students who have already earned such a degree.

The certificate is currently undergoing revision.

GRADUATE PUBLIC, NON-PROFIT, AND COMMUNITY LEADERSHIP CERTIFICATE

The Center for NEW DIRECTIONS in Politics and Public Policy offers a formally transcribed graduate certificate in Public, Nonprofit, and Community Leadership to meet the needs of individuals in formal public and nonprofit positions that require development of their leadership competencies and for individuals in informal community leadership positions who want to build their knowledge, skills, and effectiveness. The certificate is open to nondegree seeking students (with or without an undergraduate degree) as well as students formally admitted to the MA in Political Science and to upper division undergraduates seeking to get a head start on their graduate studies.

Students who successfully complete the certificate program would be allowed to transfer in the credits received in the certificate program to complete the Master's Degree in Political Science with emphasis in Politics and Public Policy offered through the Center for NEW DIRECTIONS in Politics and Public Policy in the Political Science Department at the University of Colorado Denver. Transfer of credits would follow completion of the formal application for admission and follow the established review for acceptance of transfer credits.

Prospective students for programs other than the MA in Political Science with emphasis in Politics and Public Policy should verify with their proposed graduate program to determine the number of credit hours that may be accepted for transfer credit for other MA degrees.

Admissions

Individuals who are not currently admitted students seeking the graduate Public, Nonprofit, and Community Leadership Certificate would use the "quick admit" feature online or the extended studies admissions form previously developed by the College of Liberal Arts and Sciences.

Students requesting admission to the MA in Political Science program would need to complete the application for admissions (undergraduate or graduate, respectively) and be formally admitted by the department (and Graduate School for prospective graduate students) prior to requesting transfer of their certificate credits for their degree program. Please note: completion of the Graduate Certificate in Public, Nonprofit, and Community Leadership does not obligate the individual to pursue further education. The Certificate can be earned as a stand-alone University certificate, or it can be applied to a current or future degree program.

Currently admitted upper division undergraduates should schedule certificate advising appointments with the NEW DIRECTIONS office to register their intent to pursue the Public, Nonprofit, and Community Leadership Certificate. Then they may register for classes as usual.

Similarly, currently admitted MA students should schedule certificate advising appointments with the NEW DIRECTIONS office to register their intent to pursue the Public, Nonprofit, and Community Leadership Certificate. Then they may register for classes as usual.

Certificate Requirements:

9 credit hours must be successfully completed with a grade of B- or better. All courses are currently offered in the extended studies format at the University Center at Chaparral and on the Fort Lewis College campus in Durango, CO.

Required Courses:

- PSCI 5324 - Politics, Public Policy and Leadership
- PSCI 5644 - Ethical Responsibilities of Leaders

Elective Options:

- PSCI 5009 - Politics of the Budgetary Process **or**
- PSCI 5084 - Local Government and Administration **or**
- PSCI 5274 - Conflict Resolution and Public Consent Building **or**
- PSCI 5374 - Public Priorities for the 21st Century **or**
- PSCI 5414 - Organizational Change Agents

*Please note, the required courses will be offered every year. Some combination of the elective courses will be provided each year to assure sufficient choice for certificate completion in that year.

Individuals pursuing this graduate certificate will take their classes through the Center for NEW DIRECTIONS' extended studies program offered at the University Center at Chaparral or on the Fort Lewis College campus in Durango.

INTERPERSONAL VIOLENCE AND HEALTH CARE GRADUATE CERTIFICATE

The Certificate in Interpersonal Violence and Health Care (CIVHC) fulfills a nationally recognized need to educate and train individuals from a broad range of health disciplines to effectively respond to victims of interpersonal violence. CIVHC is a program of the Center on Domestic Violence in CU Denver's School of Public Affairs, developed in collaboration with local and national advisors representing schools of nursing, medicine and dentistry, as well as knowledgeable health practitioners skilled in meeting the needs of patients experiencing interpersonal violence. CIVHC is the first graduate level program of its kind. As a distance learning program it represents a collaboration within the University of Colorado system—the Downtown Campus, the Anschutz Medical Campus and the Colorado Springs Campus. Its goal is to provide education for health professionals, faculty and students, thereby building proficiency and confidence in interpersonal violence prevention, identification and intervention in Colorado and the nation.

At the completion of this certificate program, participants will have:

- Leadership skills necessary to improve systematic responses to interpersonal violence in health care settings
- Thorough understanding of the health ramifications of interpersonal violence
- Skill and comfort with screening all patients for interpersonal violence—victims, offenders and child witnesses
- Ability to effectively assess and treat adults and children engaged in violent relationships
- Ability to build resources to meet the needs of patients including, but not limited to, collaboration with community based providers.

Four courses are required for completion of this certificate. Please contact the Director of the Center on Domestic Violence at barb.paradiso@ucdenver.edu for more information.

LOCAL GOVERNMENT CONCENTRATION AND GRADUATE CERTIFICATE

Local government is the most rapidly growing area of the public sector employment across the country, providing jobs in municipalities, counties, regional authorities, and councils of government.

The Local Government Concentration allows Master of Public Administration students to become well-versed in the forces that shape the agendas of these offices and agencies and gain an understanding of government management and policy making. MPA students who wish to earn a concentration in Local Government must take two of the following courses as part of their electives:

Non-degree students may earn a Local Government Certificate by completing 15 credit hours (5 courses) in topics approved by the Concentration Director.

For more information, contact:

Dr. Allan Wallis, Local Government Concentration Director & Associate Professor

University of Colorado Denver
School of Public Affairs
Phone: (303) 315-2829
Fax: (303) 315 - 2229
E-mail: Allan.Wallis@ucdenver.edu

Certificate Requirements

Students take at least two of the four courses listed below:

- PUAD 5503 - Governmental Budgeting
 - PUAD 5625 - Local Government Management
 - PUAD 5626 - Local Government Politics and Policy
 - PUAD 5628 - Urban Social Problems
- Electives approved by advisor (3) (6-9 semester hours)

Total: 15 Hours

NONPROFIT ORGANIZATIONS GRADUATE CONCENTRATION/CERTIFICATE

The graduate concentration in Nonprofit Organizations is available as a concentration within the MPA degree, or as a stand-alone certificate for non-degree students. This program prepares students to become innovative and critical thinkers in the areas of nonprofit organizational management and public policy, with a unique approach that bridges theoretical knowledge with real-world experience. As students prepare for their careers or advancement in their current positions, they gain insight into the interdependence between the nonprofit, public, and for-profit sectors. Graduates are able to span the boundaries of these three sectors to assess community needs, navigate the realm of public policy, and strategically and effectively manage organizations that ultimately benefit society.

Requirements

Students take two required courses as well as three electives approved by the concentration advisor, for a total of 15 hours.

- PUAD 5110 - Seminar in Nonprofit Management
- PUAD 5140 - Nonprofit Financial Management

PUBLIC RELATIONS GRADUATE CERTIFICATE

► Graduate School Rules apply to this program.

Public Relations has been defined as the management function that entails planning, research, publicity, promotion and collaborative decision-making to help any organization's ability to listen to, appreciate and respond appropriately to those persons and groups whose mutually beneficial relationships the organization needs to foster as it strives to achieve its mission and vision. The graduate certificate in public relations is designed to provide students with the principles and theories that guide the work of public relations practitioners in commercial, public and non-profit contexts.

The graduate certificate in public relations is designed for working professionals who already have earned bachelor's degrees but who would like to enhance or upgrade their skills in the area of public relations. Non-degree students who enroll in the MA program following completion of the certificate may transfer up to 12 hours of credits earned for the certificate into credits for the MA degree. The certificate also is designed for students enrolled in a CU Denver master's program, including the Department of Communication's MA program. For such students, the certificate can be completed as part of or in addition to the course work required for the master's degree (recipients of the undergraduate certificate in public relations are ineligible to complete this certificate).

Certificate Requirements

The graduate certificate in public relations requires four courses (12 semester hours):

- COMM 5240 - Organizational Communication **or**
- COMM 4805 - Graphics
- COMM 5635 - Principles of Public Relations
- COMM 5640 - Advanced Public Relations
- COMM 5665 - Principles of Advertising

Total: 12 Hours

Students may be permitted to take courses other than those listed above to fulfill the requirements for the certificate if those courses fit their professional goals better (COMM 5635, Principles of Public Relations may not be substituted, however). Requests for approval of substitute courses, including an explanation for the substitution, must be made in writing to Hamilton Bean.

Grade and Residency Requirements

A grade of *B* must be earned in each course completed as part of the certificate. All of the credit hours for the certificate must be earned at the University of Colorado Denver.

Application Procedures and Additional Information

Students should apply for the graduate certificate in public relations after the completion of the required courses. To apply, students must complete the certificate application and return it to Dr. Hamilton Bean in his mailbox in room 102-A of the Plaza Building or mail to Department of Communication; P. O. Box 173364, Campus Box 176; University of Colorado Denver; Denver, CO 80217-3364. The approved certificate is mailed to the student.

Students who are not already enrolled at CU Denver must also complete an Application for Non-Degree Admission prior to registering for courses. The form should be returned to the Office of Admissions in the annex of the CU Building.

Additional information about the graduate certificate in public relations may be obtained from Dr. Hamilton Bean, Department of Communication, Plaza 102-Q, 303-352-3876, Hamilton.Bean@ucdenver.edu.

PUBLIC, NONPROFIT AND COMMUNITY LEADERSHIP GRADUATE CERTIFICATE

Introduction

The Center for NEW DIRECTIONS in Politics and Public Policy offers a formally transcribed graduate certificate in Public, Nonprofit, and Community Leadership to meet the needs of individuals in formal public and nonprofit positions that require development of their leadership competencies and for individuals in informal community leadership positions who want to build their knowledge, skills, and effectiveness. The certificate is open to nondegree seeking students (with or without an undergraduate degree) as well as students formally admitted to the MA in Political Science and to upper division undergraduates seeking to get a head start on their graduate studies.

This certificate will help human resources directors in local governments and nonprofit organizations who are seeking additional leadership development for the department heads and other individuals they want to groom for succession to leadership. The certificate can also serve as a re-entry point for individuals who have been away from higher education for some time and who are fearful of leaping into a Master's degree program when their study skills may have faded.

Students who successfully complete the certificate program will be allowed to transfer in the credits received in the certificate program to complete the Master's Degree in Political Science with emphasis in Politics and Public Policy offered through the Center for NEW DIRECTIONS in Politics and Public Policy in the Political Science Department at the University of Colorado Denver. Transfer of credits would follow completion of the formal application for admission and follow the established review for acceptance of transfer credits.

Program Delivery

- This is an on-campus program.

Declaring This Certificate

- Individuals who are not currently admitted students seeking the graduate Public, Nonprofit, and Community Leadership Certificate should use the "quick admit" feature online or the extended studies admissions form previously developed by the College of Liberal Arts and Sciences.
- Students requesting admission to the MA in Political Science program will need to complete the application for admissions (undergraduate or graduate, respectively) and be formally admitted by the department (and Graduate School for prospective graduate students) prior to requesting transfer of their certificate credits for their degree program.

- Currently admitted upper division undergraduates should schedule certificate advising appointments with the NEW DIRECTIONS office to register their intent to pursue the Public, Nonprofit, and Community Leadership Certificate. Then they may register for classes as usual.
- Similarly, currently admitted MA students should schedule certificate advising appointments with the NEW DIRECTIONS office to register their intent to pursue the Public, Nonprofit, and Community Leadership Certificate. Then they may register for classes as usual.

General Requirements

Click here for information about Academic Policies.

Certificate Requirements

1. 9 credit hours must be successfully completed with a grade of B- or better.
2. Students who successfully complete the certificate program will be allowed to transfer in the credits received in the certificate program to complete the Master's Degree in Political Science with emphasis in Politics and Public Policy offered through the Center for NEW DIRECTIONS in Politics and Public Policy in the Political Science Department at the University of Colorado Denver. Transfer of credits would follow completion of the formal application for admission and follow the established review for acceptance of transfer credits.
3. Prospective students for programs other than the MA in Political Science with emphasis in Politics and Public Policy should verify with their proposed graduate program to determine the number of credit hours that may be accepted for transfer credit for other MA degrees.

Take **all** of the following courses:

- PSCI 5324 - Politics, Public Policy and Leadership
- PSCI 5644 - Ethical Responsibilities of Leaders

Take **one** of the following electives:

- PSCI 5009 - Politics of the Budgetary Process
- PSCI 5084 - Local Government and Administration
- PSCI 5274 - Conflict Resolution and Public Consent Building
- PSCI 5414 - Organizational Change Agents

SCIENTIFIC FOUNDATIONS OF TECHNICAL INNOVATION CERTIFICATE

The goal of this certificate is to give students and working professionals an opportunity to broaden their technical knowledge while contributing to regional economic development. Two real-world projects—one for a client and one for the student's own pursuits—are combined with a series of six short courses to provide both context and substance for gaining knowledge needed to create technical prototypes. The model is based on the method by which most physical science graduate students learn technical domains on a "just-in-time" basis. It is also a method by which many corporations quickly bring new project team members up to speed on project knowledge. Entry into the certificate program requires prior completion of two semesters of calculus-based physics and two semesters of calculus **or** permission of the certificate advisor.

Undergraduate required courses

- PHYS 4850 - Physics for Design and Innovation I
- PHYS 4400 - Topics in Scientific Instrumentation and Laboratory Methods
Choose six 1-semester-hour short courses out of a larger list of offered topics; the specific sequence must be approved by the certificate advisor
- PHYS 4852 - Physics for Design and Innovation II

Total: 12 Hours

Graduate required courses

Graduate versions of the courses (5000-level) require an undergraduate degree and additional work on technical analysis or connection to professional practice.

- PHYS 5850 - Physics for Design and Innovation I
- PHYS 5400 - Topics in Scientific Instrumentation and Laboratory Methods
Choose six 1-semester-hour short courses out of a larger list of offered topics; the specific sequence must be approved by the certificate advisor.
- PHYS 5852 - Physics for Design and Innovation II

Total: 12 Hours

SUSTAINABLE URBAN INFRASTRUCTURE GRADUATE CERTIFICATE

This certificate is for students and working professionals who seek an interdisciplinary curriculum in the broad field of sustainable infrastructure to address complex water, energy, built environment and transportation challenges using engineering and social science strategies. Students must already have a baccalaureate degree.

TEACHING ENGLISH LANGUAGE LEARNERS GRADUATE CERTIFICATE (CTELL)

► Graduate School Rules apply to this program.

Program Advisor: Hongguang (Ian) Ying, Associate Professor

Office: 1050 Ninth Street Park, Room 100

Telephone: 303-556-6728

E-mail: Hongguang.Ying@ucdenver.edu

Program Description

To meet the increasing needs of individuals seeking advanced training in teaching English as a second language, the English department at CU Denver offers a graduate Certificate in Teaching English Language Learners (CTELL).

The certificate program is designed to build the necessary skills to teach adults English as a second language through focused preparation. It is primarily aimed at native speakers of English who want to teach overseas, but may serve the needs of international students wanting to teach English in their home country or other countries.

Upon successful completion of the program, CTELL participants will be able to:

- Discuss the theoretical basis of second language instruction
- Demonstrate a variety of effective ESL teaching techniques
- Explain, in pedagogically relevant ways, the linguistic structures of the English language

Curriculum

The curriculum consists of 12 semester hours (9 semester hours of required courses, and three semester hours of electives). The required courses must be taken at CU Denver. A GPA of 3.0 or better is required for all graduate courses.

Required Courses

- ENGL 5171 - Language Theory
- ENGL 5651 - Second Language Writing
- ENGL 5601 - Principles and Practices of Second Language Acquisition

Total: 9 Hours

Elective Courses

- ENGL 5093 - Teaching of Writing
An alternative elective such as a special topic course (i.e., ENGL 5190 - Cross-Cultural Communication) approved by the program advisor.
An internship approved by the program advisor.
- ENGL 5190 - Special Topics in Rhetoric and Writing
Cross-Cultural Communication
Must obtain program advisor approval
- ENGL 5939 - Internship
Must obtain program advisor approval

Total: 3 Hours

Total: 12 Hours

Additional Information

LENGTH OF TIME

The course of study will typically last one academic year, including the summer session.

WHEN YOU MAY BEGIN

You may begin in any semester. There is no fixed deadline for application for admission.

PREREQUISITES

All applicants must have a bachelor's degree or the equivalent, with a 3.0 GPA, to be accepted to the program. Graduate students at CU Denver will also be permitted to apply for the certificate while they are concurrently completing another graduate degree. Permission may not be granted to graduate students in the applied linguistics option of the Master of Arts in English program.

Non-native speakers of English are required to submit an official TOEFL (Test of English as a Foreign Language) report showing a score of at least 580. Those who score below 580 but above 525 on the TOEFL may be admitted conditionally to the program. Under these conditions, students will have their English language skills assessed by the faculty of the program immediately after they arrive on campus to determine whether further courses are needed to develop English language proficiency. After assessment, the students may be assigned to full-time language study in an intensive English program, permitted to take graduate-level classes on a conditional basis along with further designated language study or permitted to begin graduate study without further restrictions.

TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL) GRADUATE CERTIFICATE

Culturally and Linguistically Diverse Education

Requirements for CLDE Program

(Degree/Endorsement or Certificates - TESOL, CRUE, TCLD)

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Faculty

Information about faculty in this program is available at our website

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/OurFaculty.aspx>. The faculty of linguistically diverse education (CLDE) believe that effective teaching requires an awareness of and the ability to respond to individual differences. CLDE faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich

environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Program Options

The CLDE program offers options leading to the following:

- a Master of Arts in Curriculum and Instruction
- the Colorado Endorsement for Culturally and Linguistically Diverse Education
- a Teaching English to Speakers of Other Languages (TESOL) certificate
- a Culturally Responsive Urban Education (CRUE) certificate
- a Teaching for Cultural and Linguistic Diversity (TCLD) certificate

The program is intended for:

- novice teachers who have completed their Colorado teaching credentials in CU Denver's graduate teacher education licensure program and are enrolled in the MA in curriculum and instruction with an emphasis in CLDE (see 27 semester-hour option)
- veteran elementary and secondary teachers returning to graduate studies for the master's degree (36 semester hours)
- veteran elementary and secondary teachers returning to acquire Colorado endorsement credentials (24 semester hours)
- individuals interested in teaching English abroad (TESOL: 15 semester hours)
- elementary and secondary teachers who desire preparation in better meeting the needs of culturally diverse learners (CRUE: 9 semester hours)
- veteran elementary and secondary teachers returning to graduate studies for a certificate to aid them in helping their English language learners succeed (TCLD: 9 semester hours)
- individuals interested in teaching adults (MA: 36 semester hours)

The MA is a field-based professional development program involving university faculty and practicing CLDE instructors in public school and intensive English settings. Courses, laboratories and practica emphasize scholarly approaches to complex problems of practice and feature interactive, collaborative and practical approaches to working with English language learners.

We advocate a sociocultural approach to issues of language and learning, acknowledging the legitimacy of linguistic and cultural differences and recognizing that academic settings represent important socializing forces in students' lives. Because of this, we emphasize the "whole learner" in our teaching and in teacher education and teacher development, understanding that individuals do not merely add a language to their repertoire of communication but make fundamental identity adjustments as they progress in their studies. For this reason, all our course work, laboratories and practica experiences are field-based, putting our program participants in contact with veteran teachers and English language learners. We draw heavily on recent scholarship in collaborative approaches to school-university partnerships and systemic school change in developing classroom methods and materials, curricula and teacher development experiences.

The MA program also provides a foundation in teaching English in a variety of contexts in the United States and abroad. Teachers who work in CLDE programs or in other content areas (such as art, language arts, math, music, science, social studies or technology), but who wish to integrate CLDE principles and

strategies into their instruction for their English language learners, will find the MA program relevant to their interests and goals.

Course work includes language teaching methodology, language acquisition, linguistic analysis of English, multicultural foundations, assessment, literacy and other areas. This program has been developed as an advanced course of study for practicing teachers or individuals with some teaching experience.

Applicants who are new to teaching, and who wish to teach in U.S. K–12 public school settings, should inquire about the teacher education licensure program. Applicants who are new to teaching, but who do not need a teaching license (certification) because they do not wish to teach in U.S. public schools, may consider the TESOL certificate to gain initial teaching experiences before applying for the MA.

Program Requirements and Courses

To complete the CLDE program and earn a master's degree and/or endorsement, or to earn a TESOL certificate, students must complete the appropriate course work as outlined in the table below.

Requirements for CLDE Program (Degree/Endorsement or TESOL Certificate)					
Course	MA for Teaching Adults (without CDE Endorsement in CLDE)	MA and CDE Endorsement in CLDE	CDE Endorsement in CLDE Only	MA and CDE Endorsement in CLDE <i>(when added to CU Denver's graduate teacher education licensure program)</i>	TESOL Certificate
CLDE 5010 - Foundations of Language, Literacy and Culture	Required	Required	Required	Required	
CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn	Required	Required	Required	Required	
<i>One course from culture options:</i>					
CLDE 5140 - Multicultural Education or CLDE 5150 - Culture of the	Select One	Select One	Not Required	Not Required	

Classroom					
CLDE 5070 - Linguistic Analysis of English: Implications for Teaching	Required	Required	Required	Required	Required
CLDE 5030 - Language & Literacy Acquisition Div Lrn	Required	Required	Required	Required	Required
CLDE 5820 - Techniques in Teaching English as a Second Language	Required	Required	Required	Required	Required
CLDE 5050 - Assessment & Advocacy for Diverse Learners	Required	Required	Required	Required	Required
<p><i>One course from field-based teaching options:</i></p> <p>CLDE 5825 - Methods and Materials of Language Teaching or CLDE 5826 - Language Teaching Lab or LCRT 5770 - Effective Literacy Instruction for Second Language Learners (DPS or APS teachers only)</p> <p>Other courses such as LCRT 5730, LCRT 5020, or SPED 5740 may be used with Faculty Advisor approval only</p>	5826 preferred	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	5826
CLDE 5035 - Language and Literacy: Acquisition, Processes, and Cognition, Part II	Required	Required	Not Required	Not Required	
CLDE 6912 - Seminar and Practicum in Literacy and Language, ESL and Bilingual Education	Required	Required	Required	Required	
<i>One course from research and evaluation methodology:</i>	Select One	Select One	Not Required	Select One	

RSEM 5050 - Classroom Assessment or RSEM 5080 - Research In Schools or Any other graduate-level RSEM course with advisor approval					
<i>One course from educational psychology:</i> EPSY 5110 - Human Learning or EPSY 5220 - Adult Learning and Education or Any other graduate-level EPSY course with advisor approval	Select One	Select One	Not Required	Not Required	
Cumulative Experience: Final Reflection	Required	Required	Required	Required	
LDE PLACE Exam (not required for students beginning Spring 2013 or later)		Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	
Total Semester Hours	36	36	24	27	15

Culturally Responsive Urban Education (CRUE) Certificate Requirements

Those considering the CRUE certificate must complete the following:

- CLDE 5170 - Race, Class and Culture in Public Schools Semester Hours: 3
- CLDE 5180 - Working with Communities and Families Semester Hours: 3
- CLDE 5190 - Culturally Responsive Pedagogy and Practices Semester Hours: 3

Total: 9 Hours

This certificate is only offered as a cohort, through our district partnerships. Additional information about the CRUE certificate can be found at

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/CulturallyResponsiveUrbanEducation.aspx>

Teaching for Cultural and Linguistic Diversity (TCLD) Certificate

The TCLD Certificate (formerly known as Content Instruction for English Learners (CIEL) is a graduate certificate providing a foundation in teaching content to students whose first language is other than English. The program is designed for content-area teachers (math, science, social studies, etc.) who have

English language learners in their classes. This certificate is also valuable to content area coaches or administrators who provide support for teachers with English language learners. The certificate is appropriate for public school and community college personnel.

The certificate totals nine credit hours with the specialty area in culturally and linguistically diverse education (CLDE). All courses are three graduate credit hours and may be applied directly toward a full master's degree in Curriculum and Instruction with an emphasis in LDE while also fulfilling the requirements toward a Colorado Culturally and Linguistically Diverse Education Endorsement. Courses may also be applied toward the Teaching English to Speakers of Other Languages (TESOL) Certificate. Additional courses and applications are required for these programs. Please see our website for additional information on this

certificate: <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/TeachingforCulturalandLinguisticDiversityCertificate.aspx>.

The certificate may be completed in one year. Those pursuing the TCLD certificate must complete the following:

- CLDE 5030 - Language & Literacy Acquisition Div Lrn
- CLDE 5820 - Techniques in Teaching English as a Second Language
- LCRT 5770 - Effective Literacy Instruction for Second Language Learners

The TCLD certificate is being offered only through our district partnerships.

Culminating Experience: Final Reflection

The culminating experience project is required for the CLDE endorsement, counts as the comprehensive exam for the master's degree and permits you to document your development over the course of your program. Culminating Experience Projects are reviewed by CLDE faculty members. The process is reviewed in every class as each of the PBAs is completed in the classes, helping students to update their culminating experience projects throughout the program. For more culminating experience project guidelines, visit the website

at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LinguisticallyDiverseEducationResources.aspx>.

PLACE Exam for Linguistically Diverse Education Endorsement

To add the endorsement to their teaching license, students beginning the program prior to Spring 2013 must pass the PLACE (Program for Licensing Assessments for Colorado Educators) exam for linguistically diverse education, secure and submit the appropriate paperwork from the Colorado Department of Education, and pay fees required for the PLACE and for the endorsement paperwork. Information about PLACE is online at www.place.nesinc.com. Students beginning Spring 2013 or later will be eligible for the Culturally and Linguistically Diverse Education Endorsement and will not be required to pass the PLACE exam to receive the CLDE endorsement.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the

summer semester, three-to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester and up to two courses each summer. Students may simultaneously complete requirements for the MA and the endorsement for culturally and linguistically diverse education (some courses are offered only once per year.)

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

TEACHING FOR CULTURAL AND LINGUISTIC DIVERSITY (TCLD) CERTIFICATE

Culturally and Linguistically Diverse Education

Requirements for CLDE Program

(Degree/Endorsement or Certificates - TESOL, CRUE, TCLD)

Office: Lawrence Street Center, 701

Telephone: 303-315-6300

Fax: 303-315-6311

E-mail: education@ucdenver.edu

Faculty

Information about faculty in this program is available at our website

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/FacultyandResearch/Pages/OurFaculty.aspx>. The faculty of linguistically diverse education (CLDE) believe that effective teaching requires an awareness of and the ability to respond to individual differences. CLDE faculty also emphasize the importance of teachers as scholars and reflective practitioners. In particular, teachers must understand how linguistic and cultural diversity affect their teaching. Two themes run throughout all program offerings. The first concerns the importance of recognizing a variety of literacies—"home" literacies, school literacy, "mainstream" literacy, first and second language literacies—and to develop teaching practices that utilize an understanding of the complexity of literacy development across language contexts. The second theme involves the meaningful use of language and literacy to improve the quality of one's life. As an approach to teaching, this theme emphasizes the creation of diverse, rich environments in which learners experience oral and written language as part of authentic tasks, and where concern for the cultural and linguistic heritage of the students is evident.

Program Options

The CLDE program offers options leading to the following:

- a Master of Arts in Curriculum and Instruction

- the Colorado Endorsement for Culturally and Linguistically Diverse Education
- a Teaching English to Speakers of Other Languages (TESOL) certificate
- a Culturally Responsive Urban Education (CRUE) certificate
- a Teaching for Cultural and Linguistic Diversity (TCLD) certificate

The program is intended for:

- novice teachers who have completed their Colorado teaching credentials in CU Denver's graduate teacher education licensure program and are enrolled in the MA in curriculum and instruction with an emphasis in CLDE (see 27 semester-hour option)
- veteran elementary and secondary teachers returning to graduate studies for the master's degree (36 semester hours)
- veteran elementary and secondary teachers returning to acquire Colorado endorsement credentials (24 semester hours)
- individuals interested in teaching English abroad (TESOL: 15 semester hours)
- elementary and secondary teachers who desire preparation in better meeting the needs of culturally diverse learners (CRUE: 9 semester hours)
- veteran elementary and secondary teachers returning to graduate studies for a certificate to aid them in helping their English language learners succeed (TCLD: 9 semester hours)
- individuals interested in teaching adults (MA: 36 semester hours)

The MA is a field-based professional development program involving university faculty and practicing CLDE instructors in public school and intensive English settings. Courses, laboratories and practica emphasize scholarly approaches to complex problems of practice and feature interactive, collaborative and practical approaches to working with English language learners.

We advocate a sociocultural approach to issues of language and learning, acknowledging the legitimacy of linguistic and cultural differences and recognizing that academic settings represent important socializing forces in students' lives. Because of this, we emphasize the "whole learner" in our teaching and in teacher education and teacher development, understanding that individuals do not merely add a language to their repertoire of communication but make fundamental identity adjustments as they progress in their studies. For this reason, all our course work, laboratories and practica experiences are field-based, putting our program participants in contact with veteran teachers and English language learners. We draw heavily on recent scholarship in collaborative approaches to school-university partnerships and systemic school change in developing classroom methods and materials, curricula and teacher development experiences.

The MA program also provides a foundation in teaching English in a variety of contexts in the United States and abroad. Teachers who work in CLDE programs or in other content areas (such as art, language arts, math, music, science, social studies or technology), but who wish to integrate CLDE principles and strategies into their instruction for their English language learners, will find the MA program relevant to their interests and goals.

Course work includes language teaching methodology, language acquisition, linguistic analysis of English, multicultural foundations, assessment, literacy and other areas. This program has been

developed as an advanced course of study for practicing teachers or individuals with some teaching experience.

Applicants who are new to teaching, and who wish to teach in U.S. K–12 public school settings, should inquire about the teacher education licensure program. Applicants who are new to teaching, but who do not need a teaching license (certification) because they do not wish to teach in U.S. public schools, may consider the TESOL certificate to gain initial teaching experiences before applying for the MA.

Program Requirements and Courses

To complete the CLDE program and earn a master's degree and/or endorsement, or to earn a TESOL certificate, students must complete the appropriate course work as outlined in the table below.

Requirements for CLDE Program (Degree/Endorsement or TESOL Certificate)					
Course	MA for Teaching Adults (without CDE Endorsement in CLDE)	MA and CDE Endorsement in CLDE	CDE Endorsement in CLDE Only	MA and CDE Endorsement in CLDE <i>(when added to CU Denver's graduate teacher education licensure program)</i>	TESOL Certificate
CLDE 5010 - Foundations of Language, Literacy and Culture	Required	Required	Required	Required	
CLDE 5160 - Historical, Legal And Cultural Foundations For The Education Of Immigrant And Language Minority Stdn	Required	Required	Required	Required	
<i>One course from culture options:</i>					
CLDE 5140 - Multicultural Education or CLDE 5150 - Culture of the Classroom	Select One	Select One	Not Required	Not Required	

CLDE 5070 - Linguistic Analysis of English: Implications for Teaching	Required	Required	Required	Required	Required
CLDE 5030 - Language & Literacy Acquisition Div Lrn	Required	Required	Required	Required	Required
CLDE 5820 - Techniques in Teaching English as a Second Language	Required	Required	Required	Required	Required
CLDE 5050 - Assessment & Advocacy for Diverse Learners	Required	Required	Required	Required	Required
<p><i>One course from field-based teaching options:</i></p> <p>CLDE 5825 - Methods and Materials of Language Teaching or CLDE 5826 - Language Teaching Lab or LCRT 5770 - Effective Literacy Instruction for Second Language Learners (DPS or APS teachers only)</p> <p>Other courses such as LCRT 5730, LCRT 5020, or SPED 5740 may be used with Faculty Advisor approval only</p>	5826 preferred	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	<p>Elem: 5825 preferred</p> <p>Sec: 5826 preferred</p>	5826
CLDE 5035 - Language and Literacy: Acquisition, Processes, and Cognition, Part II	Required	Required	Not Required	Not Required	
CLDE 6912 - Seminar and Practicum in Literacy and Language, ESL and Bilingual Education	Required	Required	Required	Required	
<p><i>One course from research and evaluation methodology:</i></p> <p>RSEM 5050 - Classroom Assessment or RSEM 5080 - Research In</p>	Select One	Select One	Not Required	Select One	

Schools or Any other graduate-level RSEM course with advisor approval					
<i>One course from educational psychology:</i> EPSY 5110 - Human Learning or EPSY 5220 - Adult Learning and Education or Any other graduate-level EPSY course with advisor approval	Select One	Select One	Not Required	Not Required	
Cumulative Experience: Final Reflection	Required	Required	Required	Required	
LDE PLACE Exam (not required for students beginning Spring 2013 or later)		Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	Only required if beginning prior to spring 2013	
Total Semester Hours	36	36	24	27	15

Culturally Responsive Urban Education (CRUE) Certificate Requirements

Those considering the CRUE certificate must complete the following:

- CLDE 5170 - Race, Class and Culture in Public Schools Semester Hours: 3
- CLDE 5180 - Working with Communities and Families Semester Hours: 3
- CLDE 5190 - Culturally Responsive Pedagogy and Practices Semester Hours: 3

Total: 9 Hours

This certificate is only offered as a cohort, through our district partnerships. Additional information about the CRUE certificate can be found at

<http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/CulturallyResponsiveUrbanEducation.aspx>

Teaching for Cultural and Linguistic Diversity (TCLD) Certificate

The TCLD Certificate (formerly known as Content Instruction for English Learners (CIEL) is a graduate certificate providing a foundation in teaching content to students whose first language is other than English. The program is designed for content-area teachers (math, science, social studies, etc.) who have English language learners in their classes. This certificate is also valuable to content area coaches or administrators who provide support for teachers with English language learners. The certificate is appropriate for public school and community college personnel.

The certificate totals nine credit hours with the specialty area in culturally and linguistically diverse education (CLDE). All courses are three graduate credit hours and may be applied directly toward a full master's degree in Curriculum and Instruction with an emphasis in LDE while also fulfilling the requirements toward a Colorado Culturally and Linguistically Diverse Education Endorsement. Courses may also be applied toward the Teaching English to Speakers of Other Languages (TESOL) Certificate. Additional courses and applications are required for these programs. Please see our website for additional information on this certificate: <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/Academics/CPE/Learn/Certificates/Pages/TeachingforCulturalandLinguisticDiversityCertificate.aspx>.

The certificate may be completed in one year. Those pursuing the TCLD certificate must complete the following:

- CLDE 5030 - Language & Literacy Acquisition Div Lrn
- CLDE 5820 - Techniques in Teaching English as a Second Language
- LCRT 5770 - Effective Literacy Instruction for Second Language Learners

The TCLD certificate is being offered only through our district partnerships.

Culminating Experience: Final Reflection

The culminating experience project is required for the CLDE endorsement, counts as the comprehensive exam for the master's degree and permits you to document your development over the course of your program. Culminating Experience Projects are reviewed by CLDE faculty members. The process is reviewed in every class as each of the PBAs is completed in the classes, helping students to update their culminating experience projects throughout the program. For more culminating experience project guidelines, visit the website at <http://www.ucdenver.edu/academics/colleges/SchoolOfEducation/CurrentStudents/Resources/Pages/LinguisticallyDiverseEducationResources.aspx>.

PLACE Exam for Linguistically Diverse Education Endorsement

To add the endorsement to their teaching license, students beginning the program prior to Spring 2013 must pass the PLACE (Program for Licensing Assessments for Colorado Educators) exam for linguistically diverse education, secure and submit the appropriate paperwork from the Colorado Department of Education, and pay fees required for the PLACE and for the endorsement paperwork. Information about PLACE is online at www.place.nesinc.com. Students beginning Spring 2013 or later will be eligible for the Culturally and Linguistically Diverse Education Endorsement and will not be required to pass the PLACE exam to receive the CLDE endorsement.

Course Scheduling

During the fall and spring semesters, most university courses are offered in the late afternoon and evening and meet for three hours once a week over a 16-week semester. Some alternative course schedules are available, such as meeting on five Friday-evening/all-day Saturday combinations. In the summer semester, three-to eight-week sessions are offered, and courses may be in the morning, afternoon or evening.

Planning

For practicing full-time teachers, we recommend taking one course each fall and spring semester and up to two courses each summer. Students may simultaneously complete requirements for the MA and the endorsement for culturally and linguistically diverse education (some courses are offered only once per year.)

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.

WATER RESOURCES GRADUATE CERTIFICATE

This certificate is for graduate students who seek an interdisciplinary curriculum in the field of hydrologic and hydraulic engineering to analyze water-related problems and obtain knowledge pertaining to watershed hydrology, groundwater modeling, urban storm water management, flood mitigation and river mechanics. Students must already have a baccalaureate degree

WOMEN'S AND GENDER STUDIES GRADUATE CERTIFICATE

► Graduate School Rules apply to this program.

The women's and gender studies certificate is administered through the Women's and Gender Studies program in the College of Liberal Arts and Sciences at the University of Colorado Denver. It is designed to provide members of the CU Denver population and public with specialized knowledge of the history, politics, literature and social practices related to women's and gender concerns. Students must complete 12 credit hours of course work in order to receive the certificate. Acceptance into the certificate program is subject to CU Denver Graduate School Rules.

The WGST certificate is available to any qualified graduate student or non-degree seeking, graduate-level student at CU Denver. Students begin with a required, graduate-level methodology or foundational course before pursuing a combination of WGST-related course work. Upon completion of the certificate, students will have foundational and theoretical knowledge of the major concerns of women's and gender studies.

All prospective students must complete and submit an application to the program. Upon admission to the certificate program, students are eligible for the certificate. All course work must be taken at CU Denver.

Courses

(Please note that some of the following courses may have prerequisites that *must* be met.)

Required Course

Choose one of the following:

- SSCI 6010 - Methods and Theories of Feminism and Gender Studies **or**
- WGST 6010 - Methods and Theories of Feminism and Gender Studies
- ENGL 5306 - Survey of Feminist Thought **or**
- HIST 5306 - Survey of Feminist Thought **or**
- WGST 5306 - Survey of Feminist Thought

Total: 3 Hours

Elective Courses (choose three)

These courses must be explicitly women's and/or gender and/or identity-based courses. They can be taken through any CU Denver department or program with the approval of an advisor. Only one 4000-level elective may be counted toward the certificate. All other course work must be 5000-level or above.

The following is a representative listing of WGST-related courses that may be taken toward the certificate; it is not comprehensive. Please note that some of these courses may be taught sporadically. Students should meet with their advisor to plan their course of study.

- ANTH 5200 - Gender in Cross-Cultural Perspective
- COMM 5020 - Feminist Perspectives on Communication
- COMM 5045 - Female-Male Friendships
- COMM 5265 - Gender and Communication
- CRJU 5553 - Women and Crime
- ENGL 4510 - Whores and Saints: Medieval Women **or**
- ENGL 5510 - Whores and Saints: Medieval Women
- ENGL 5000 - Studies of Major Authors
(depending on author being studied; e.g., Virginia Woolf, George Sand, etc.)
- ENGL 5306 - Survey of Feminist Thought **or**
- HIST 5306 - Survey of Feminist Thought **or**
- WGST 5306 - Survey of Feminist Thought
- ETST 4555 - International Women's Resistance **or**
- PSCI 5555 - International Women's Resistance
- ETST 4827 - Women and the Law **or**
- PSCI 4827 - Women and the Law
- HIST 5303 - Sex and Gender in Modern Britain
- HIST 5307 - History of Sexuality
- HIST 5345 - Gender, Science, and Medicine: 1600 to the Present
- HUMN 5720 - Sexuality, Gender and Their Visual Representation **or**
- SSCI 5720 - Sexuality, Gender and Their Visual Representation
- PSCI 4215 - Women's Rights, Human Rights: Global Perspectives
- PSCI 4564 - Gender and Politics
- PSCI 5245 - Gender, Globalization and Development
- PUAD 5910 - Nature and Scope of Interpersonal Violence
- PUAD 5920 - The Psychology of Interpersonal Violence

- PUAD 5930 - Interpersonal Violence Law and Public Policy
- SOCY 5550 - Seminar: Sociology of the Family
- SSCI 6010 - Methods and Theories of Feminism and Gender Studies **or**
- WGST 6010 - Methods and Theories of Feminism and Gender Studies
- WGST 5900 - Smart Girl Coaching Training and Practicum

Total: 9 Hours

For more information about this certificate program, contact the Women's and Gender Studies Director, Gillian Silverman, 303-556-4529, or Margaret Woodhull, 303-352-3926.

Requirements

SEHD Degree Programs and Associated State Licenses

School of Education and Human Development Degree Programs and Associated State Licenses

Programs	Approved Degrees	Licenses and Endorsements
Administrative Leadership and Policy Studies	Master of Arts: Administrative Leadership and Policy Studies Educational Specialist (EdS): Administrative Leadership and Policy Studies	Principal License Administrator License
Counseling	Master of Arts: Counseling	Public School Counselor License: 0–21 Encouraged to apply for licensure from the State of Colorado: Couples and Family Therapy Clinical Mental Health Counseling – Interdisciplinary Clinical Mental Health Counseling – Multicultural
Mathematics and Science (STEM) Education	Master of Arts: Curriculum and Instruction	Emphases: Elementary Mathematics or Science Elementary Mathematics/Science Secondary Mathematics or Science

<p>Doctoral Studies in Education</p>	<p>Doctor of Education (EdD) in Leadership for Educational Equity Doctor of Philosophy (PhD) in Educational Studies and Research</p>	<p>EdD emphases: Instructional Leadership Executive Leadership</p>
<p>Early Childhood Education</p>	<p>Master of Arts: Early Childhood Education</p>	<p>Early Childhood Special Education Specialist Birth -8 License Early Childhood Special Education Specialist Birth -8 Added Endorsement</p>
<p>Educational Psychology</p>	<p>Master of Arts: Educational Psychology</p>	<p>Emphases: Human Learning Human Development Research & Evaluation Educational Assessment</p>
<p>Graduate and Undergraduate Teacher Licensure</p>	<p>Master of Arts: Curriculum and Instruction Educational Psychology Special Education</p> <p>College of Liberal Arts Degrees: Bachelor of Arts Bachelor of Science</p>	<p>Graduate Teacher Licensure: Elementary Education Secondary Education: Math, Science, Social Studies, English, Foreign Language Special Education: Generalist–K–12</p> <p>Undergraduate Teacher Licensure: Elementary Education Secondary Education: Math, English, Science, Social Studies, Foreign Language</p>
<p>Information and Learning Technologies</p>	<p>Master of Arts: Information and Learning Technologies</p>	<p>Endorsements/emphases:</p> <ul style="list-style-type: none"> • Adult Learning & Instructional Design • E-Learning Design and Implementation • K-12 Instructional Technology Teacher and Instructional Technology Specialist

		<ul style="list-style-type: none"> • School and Teacher Librarian
Linguistically Diverse Education	Master of Arts: Curriculum and Instruction	Endorsement/emphasis: <ul style="list-style-type: none"> • Linguistically Diverse Education
Literacy, Language and Culturally Responsive Teaching	Master of Arts: Curriculum and Instruction	Endorsements/emphases: <ul style="list-style-type: none"> • Reading Teacher: K–6, 7–12 • Secondary English Education
Special Education	Master of Arts: Special Education	Special Education Generalist K-12
School Psychology	Educational Specialist (EdS): School Psychology	School Psychology Birth - 21