

At A Glance: Graduate Areas of Study

Graduate Degrees

EdS = Specialist in Education
 MA = Master of Arts
 MArch = Master of Architecture
 MBA = Master of Business Administration
 MCJ = Master of Criminal Justice
 MEng = Master of Engineering
 MH = Master of Humanities
 MIS = Master of Integrated Science
 MLA = Master of Landscape Architecture
 MS = Master of Science
 MSIB = Master of Science in International Business
 MSS = Master of Social Science
 MUD = Master of Urban Design
 MURP = Master of Urban and Regional Planning
 PhD = Doctor of Philosophy

Program	Degree	School/College
11-Month MBA	MBA	Business
Accounting	MS	Business
Administrative Leadership and Policy Studies	MA, EdS	Education & Human Development
Anthropology	MA	Liberal Arts and Sciences
Applied Mathematics	MS, PhD	Liberal Arts and Sciences
Architecture	MArch	Architecture and Planning
Biology	MS	Liberal Arts and Sciences
Business Administration	MBA	Business
Chemistry	MS	Liberal Arts and Sciences
Civil Engineering	MS, PhD	Engineering and Applied Science
Communication	MA	Liberal Arts and Sciences
Computer Science	MS	Engineering and Applied Science
Computer Science and Information Systems	PhD	Business and Engineering and Applied Science
Counseling Psych and Counselor Education	MA	Education & Human Development
Criminal Justice	MCJ	Public Affairs
Curriculum and Instruction	MA	Education & Human Development
Design and Planning	PhD	Architecture and Planning
Early Childhood Education	MA	Education & Human Development
Economics	MA	Liberal Arts and Sciences
Educational Leadership and Innovation	PhD	Education & Human Development
Educational Psychology	MA	Education & Human Development
Electrical Engineering	MS	Engineering and Applied Science
Engineering	MEng	Engineering and Applied Science
English	MA	Liberal Arts and Sciences
Environmental Sciences	MS	Liberal Arts and Sciences

Program	Degree	School/College
Executive MBA	MBA	Business
Executive Health Administration	MBA	Business
Finance	MS	Business
Health Administration	MS/MBA	Business
Health and Behavioral Sciences	PhD	Liberal Arts and Sciences
History	MA	Liberal Arts and Sciences
Humanities	MH	Liberal Arts and Sciences
Information and Learning Technologies	MA	Education & Human Development
Information Systems	MS	Business
Initial Teacher Education	MA	Education & Human Development
Integrated Science	MIS	Liberal Arts and Sciences
International Business	MSIB	Business
Landscape Architecture	MLA	Architecture and Planning
Management and Organization	MS	Business
Marketing	MS	Business
Mechanical Engineering	MS	Engineering and Applied Science
Political Science	MA	Liberal Arts and Sciences
Psychology	MA	Liberal Arts and Sciences
Professional MBA	MBA	Business
Public Administration	MPA	Public Affairs
Public Affairs	PhD	Public Affairs
Recording Arts	MS	Arts & Media
School Library	MA	Education & Human Development
School Psychology	EdS	Education & Human Development
Social Science	MSS	Liberal Arts and Sciences
Sociology	MA	Liberal Arts and Sciences
Spanish	MA	Liberal Arts and Sciences
Special Education	MA	Education & Human Development
Technical Communication	MS	Liberal Arts and Sciences
Urban and Regional Planning	MURP	Architecture and Planning
Urban Design	MUD	Architecture and Planning

Licensure and Endorsements

Early Childhood Special Education
 Elementary
 Linguistically Diverse Education (Bilingual/ESL)
 Principal/Administrator
 Reading Teacher
 School Counselor
 School Library
 School Psychologist
 Secondary: English, Foreign Language, Math, Science, Social Studies
 Special Education

Information for Graduate Students

Welcome to the Graduate School on UCDHSC's downtown Denver campus. With almost half of the student body 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, graduate certificates and classes that are partially or entirely online. Graduate programs on the downtown campus also benefit from UCDHSC's immediate proximity to Denver, 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.

UCDHSC offers 48 master's programs, seven PhD programs, two education specialist programs and nearly 35 graduate certificates. All of the graduate programs at the university are managed by the individual colleges and schools, which means that most of your needs will be met by the department in which your program resides. The colleges and schools offering graduate opportunities on the downtown campus include:

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

Individual graduate programs are described under the school/college chapters later in this catalog and online at www.cudenver.edu/Academics/Colleges/GradSchool/.

GRADUATE SCHOOL

Dean: James H. Hageman, PhD

Administrative Assistant: Carie Carroll

Office: 1380 Lawrence Street, 300

Telephone: 303-556-6536

Fax: 303-556-3377

Web site: www.cudenver.edu/Academics/Colleges/GradSchool/

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

Although graduate programs are delivered within UCDHSC's individual colleges and schools, a universitywide organization called the Graduate School looks after the interests of graduate education across the campus. All colleges and schools belong to the Graduate School and jointly develop university policies related to common graduate education issues.

One of the most important functions of the Graduate School is to establish and maintain certain minimum standards for graduate education. Schools and colleges may elaborate on these standards to meet disciplinary requirements. If they specify more stringent guidelines, these always take precedence over the minimum guidelines of the Graduate School. The general Graduate School Rules can be accessed online at www.cudenver.edu/Academics/Colleges/GradSchool/ by clicking on "School Rules."

Requirements for Admission

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

REGULAR DEGREE STUDENTS

Qualified students are admitted to regular degree status by the appropriate department. In addition to departmental approval, applicants for admission as regular degree students must:

1. Present a combination of the following: a cumulative undergraduate GPA of 2.5 or better on a scale where A is equal to 4.0, standardized examinations, prior professional experience, portfolios or other indicators.
2. Meet the specific requirements as established by the program faculty.

PROVISIONAL DEGREE STUDENTS

Applicants who do not meet the requirements for admission as a regular degree student may be considered for admission to a master's program as a *provisional degree student* upon the recommendation of the program faculty. Programs may admit students under a provisional agreement subject to the following requirements:

1. The term of the provisional period shall not exceed two years.
2. The student must complete each semester's course work with a GPA of 3.0 or higher on all work taken (whether applied to the master's degree or not).
3. The provisional agreement should clearly state any additional program requirements to attain regular status.

Failure to meet the conditions of the provisional agreement will be cause for suspension.

Application Procedures

Graduate students who expect to study at UCDHSC should contact the Office of Admissions concerning procedures for forwarding completed applications. Students may also apply online once the Apply Yourself program has been activated.

Once a student has decided to apply for a graduate program, he/she must submit a completed application before the deadline date specified by the specific program of interest.

An applicant for admission must present:

- Parts I and II of the downtown Denver campus Graduate School application form, including the tuition classification form, which may be obtained from the departmental program coordinator.
- Two official transcripts for all academic work in colleges and universities completed to date.
- Three letters of reference. Have the nominators include the applicant's name and social security number in their letters of reference.
- A nonrefundable application fee (check or money order) 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. Check with program coordinators in the departments for additional information that may be required.

Again, the student must check with the program to determine the deadline for submitting the application and application fee to the program of interest.

When a prospective degree student applies for admission, the chairperson or a student admissions committee of the department will decide whether the applicant shall be admitted and make that decision known to the Office of Admissions.

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.

RE-ADMISSION/CHANGING PROGRAMS

Former and current students who wish to be re-admitted or change from one degree program to another must meet the requirements of the new degree program and provide all items required of students applying to the Graduate School on the downtown Denver campus for the first time. These applicants, however, may petition the program to which they were initially admitted to secure a release of transcripts and letters of recommendation supplied at the time of their initial application.

TRANSFERRING

Students transferring from another CU campus to the downtown Denver campus must apply and be accepted to the new campus.

A student who has completed a master's program at UCDHSC must resubmit parts I and II of the 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. Contact the Office of Admissions at 303-556-2704 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 graduate application and supporting credentials to their department as soon as possible. Note that the GPA for courses taken as a nondegree student is calculated separately and is not incorporated in the official graduate GPA.

A department *may* recommend the transfer of as many as 9 semester hours toward the requirements of a master's degree for courses taken either as a student at another accredited graduate school, as a nondegree student at the University of Colorado or a combination.

A grade of B- or better must be earned. A 10-year time limit is in effect.

New Student Orientation

An orientation program for new students is held at the beginning of the fall and spring semesters, during the week prior to the first day of

classes. The orientation program provides information to new students about activities and services available on the downtown 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 Office of Admissions and Records, in addition to the department that has accepted them.

CHANGES IN REGISTRATION

A student who wishes to drop a course should follow the standard drop/add procedure. After the 10th week of classes, graduate students may not drop or add a course without presenting a letter to the dean of the appropriate school or college, stating the exceptional circumstances that justify the change. This letter, endorsed by the instructor of the course, must accompany the properly signed and completed drop/add form.

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 associate dean's signature to drop a course.*

ASSISTANTSHIPS AND FELLOWSHIPS

Colorado Graduate Merit Awards

Colorado graduate fellowships are awarded primarily to entering and continuing regular degree doctoral students. These are awarded to entering students on the basis of academic promise and to continuing students on the basis of academic success. Contact the department for information about this fellowship.

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 funds are from external grants obtained by faculty members. Contact the department for further information.

Additional information about registration and financial aid are available in a separate chapter of this catalog. For information about tuition and fees, please visit the Bursar's office Web site at www.cudenver.edu/Admission/tuition/.

REQUIREMENTS FOR ADVANCED DEGREES

Graduate Student Handbooks

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 student committees to guide and review the student's progress.

Quality of Graduate Work

A student is expected to maintain at least an overall 3.0 GPA in all work attempted while enrolled in a graduate program and to make satisfactory progress toward a degree in other respects as determined by his or her department.

For all graduate degrees, a grade below *C* is unsatisfactory and will not be counted toward the minimum requirements for these degrees.

Credit by Transfer

A limited amount of high-quality resident graduate work done in a recognized graduate school elsewhere 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 9 semester hours or 30 percent of the number of credits required for the degree, whichever is higher for master's degrees, and 18 hours for performance and PhD degrees.

The school or college shall determine if graduate classes taken by an undergraduate can be transferred to a graduate program. They shall also determine if courses taken in the University of Colorado system are considered resident or transfer courses.

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. Courses over 10 years old will not be transferred.

Use of English

A student who is noticeably deficient in the use of standard English in all oral and written work may not obtain an advanced degree from the University of Colorado. Ability to use the language with precision and distinction should be cultivated as an attainment of major importance.

The university reserves the right to test English proficiency for non-native speakers of English to confirm and validate sufficiency for credit-bearing course work and degree programs.

Each department will judge the qualifications of its advanced students in the use of English. Reports, examinations and speech will be considered in estimating the candidate's proficiency.

Graduate Appeals

The Graduate Council shall review grievances related to procedural issues that cannot be resolved at the school or college level. Appeals of grades or other academic issues are conducted according to the procedures of the schools and colleges, with final resolution residing with the dean of the college/school.

MASTER'S DEGREE

A student regularly admitted to a graduate program and later accepted as a candidate for the master of arts, master of science or other master's 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 their graduate programs. It is the graduate student's and the department's responsibility to see that all requirements and deadlines are met (*e.g.*, changing of IW grades, notification of final examinations, etc.).

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

Minimum Requirements

The minimum requirements of graduate work for a master's degree may be fulfilled by completing a minimum of 30 semester credits, of which no more than 9 may be thesis or independent study hours.

A course mark below *C* is unsatisfactory and will not count toward the minimum requirements for a master's degree.

A student on probation is not eligible to be awarded a degree until he or she is removed from probation.

Program requirements may be more stringent than these minimum requirements, in which case program requirements supercede the requirements of the Graduate School.

Language Requirements

Candidates must have such knowledge of ancient and/or modern languages as each department requires. See specific departmental requirements.

Graduate Certificate Opportunities

COLLEGE OF ARCHITECTURE AND PLANNING

Historic Preservation

COLLEGE OF ARTS & MEDIA

Music Business (online)

SCHOOL OF BUSINESS

(Prerequisite: MBA)

Business-to-Business Marketing

Business-to-Consumer Marketing

Business Strategy

Change Management

Corporate Financial Management

Decision Sciences

Enterprise Technology Management

Entrepreneurship

Finance

Financial Analyst

Human Resources Management

Information Systems

International Business

Investment Management

Marketing

Services Management

SCHOOL OF EDUCATION & HUMAN DEVELOPMENT

Content ESL

Designing and Implementing

Web-based Learning Environments
(online)

Marriage and Family Counseling/Therapy

TESOL

COLLEGE OF ENGINEERING AND APPLIED SCIENCE

Geographic Information Systems (GIS)

COLLEGE OF LIBERAL ARTS AND SCIENCES

Biology—Biotechnology,

Computational Biology

Communication—Interactive Media,

Public Relations, Technical and

Professional Communication

English—Teaching English to Speakers
of Other Languages

Environmental Sciences—Air Quality,

Ecosystems, Environmental Health,

Geospatial Analysis, Hazardous

Waste, Water Quality

History—Historic Preservation

Mathematics—Applied Statistics

Social Sciences—Women's Studies

SCHOOL OF PUBLIC AFFAIRS

Emergency Management, Policy
and Planning

Graduate Credit

Graduate credit is given for courses that are listed at the 5000 level or above, and that are offered by professors who are approved members of the graduate faculty. Courses at the 4000 level may be counted for graduate credit, but a minimum of 18 semester hours must be taken at the 5000 level. No course below the 4000 level may be counted for graduate credit. Departmental approval must be obtained for the courses taken by a student to count toward the degree plan.

Students are advised that not all courses listed in this catalog are available at any one time. Some are offered in alternate years, which should be considered when developing degree plans.

Admission to Candidacy

A student who wishes to become a candidate for a master's degree must file a completed application for admission to candidacy in the Graduate School or in the student's graduate program by the appropriate deadline for graduating that semester.

The application must be signed by the student's advisor and the program chair or director, certifying that the student's work is satisfactory and that the program outlined in the application meets the requirements set for the student.

Master's Thesis Credit

Every graduate student working toward a master's degree who expects to present a thesis in partial fulfillment of the requirements for the degree must register for thesis credit with a maximum of 9 semester hours. The final grade will be withheld until the thesis is completed. If the thesis is not completed at the end of the term in which the student is so registered, an *In Progress (IP)* will be reported.

Thesis Requirements

A thesis may be of a research, expository, critical, or creative type. Every thesis presented in partial fulfillment of the requirements for an advanced degree must:

- deal with a definite topic related to the major field
- be based upon independent study and investigation
- represent the equivalent of no more than 6 semester hours of work
- receive the approval of the major department
- be essentially complete at the time the comprehensive final examination is given
- comply in mechanical features with specifications outlined in *Directions for Preparing Master's and Doctoral Theses*, which is obtainable from the Graduate School office or online, and have received thesis format approval

All theses must be approved and signed by the thesis advisor and other committee members. Three copies of the final thesis must be submitted to the Graduate School by the specified deadline. One of these must contain the original signatures of the advisor and other committee members. The thesis binding fee must be paid by **cash or check** when the thesis is submitted to the Graduate School. Approved theses are kept on file in the Auraria Library and in the student's department or school.

Time Limit

Master's degree students have seven years from the date of the start of course work to complete all degree requirements.

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.

Studies leading to the PhD degree must be chosen so as to contribute to special competence and a high order of scholarship in a broad field of knowledge. A field of study chosen by the student may be in one department or it may include two or more closely related departments. The criterion as to what constitutes an acceptable field of study shall be that the student's work must contribute to an organized program of study and research without regard to the organization of academic departments within the university.

Minimum Course Dissertation Requirements

A minimum of 30 semester hours of graduate courses and 30 semester hours of dissertation credit are required for the PhD degree.

Course Work Requirement. A minimum of 30 semester hours of courses numbered 5000 or above is required for the degree, but the number of hours of formal courses will ordinarily exceed this minimum.

Dissertation Hours Requirement. To complete the requirements for the PhD, a student must complete a total of at least 30 semester hours of doctoral dissertation credit, with not more than 10 of these credit hours taken during any single semester. A minimum of 1 dissertation hour must be registered for each fall and spring semester following successful completion of the colloquium or comprehensive examination.

Dissertation credit does not apply toward the minimum 30 hours of required course work specified above. Course work and work on the dissertation may proceed concurrently throughout the doctoral program, in accordance with program requirements.

Residence

The student must be properly registered to earn residence credit. The minimal residence requirement shall be three semesters of scholarly work.

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.

Comprehensive Examination

The student must pass a comprehensive examination in the field of concentration and related fields. This examination may be oral, written or both, and will test the student's mastery of a broad field of knowledge, not merely the formal course work completed.

The examination shall be conducted by an examining board. The board shall consist of the advisory committee and additional members as necessary to total a minimum of four members of the graduate faculty, one of whom is outside the primary department.

Continuous Registration Requirements for Doctoral Candidates

Following successful completion of the comprehensive examination, students must register continuously. These students will register for and be charged for a minimum of 5 hours of dissertation credit each fall and spring semester. A maximum of 10 hours of dissertation credit may be registered for in any one semester. Continuous registration during the academic year will be required until completion of the dissertation defense (excluding summer). Once the student has a successful dissertation defense, and the 30 hours of dissertation has been met, then a minimum of 1 dissertation credit must be taken each semester. It is expected that the student and advisor will consult each semester as to the number of hours for which the student will register, consistent with the classification identified above.

Dissertation Requirements

A dissertation based upon original investigation, showing mature scholarship, critical judgment and familiarity with the tools and methods of research must be written upon a subject approved by the student's doctoral committee and major department. To be acceptable, this dissertation should be a worthwhile contribution to knowledge in the student's special field.

In mechanical features, all dissertations must comply with the specifications as outlined in the *Directions for Preparing Master's and Doctoral Theses*, which may be obtained from the Graduate School office or from the Graduate School Web site. The final draft must be reviewed and approved for format by the Graduate School prior to final copies being made.

Three formally approved and signed, typewritten copies of the dissertation (including abstract), plus one additional copy of the title page and abstract must be filed in the Graduate School office. The thesis binding fee and microfilm fee must be paid **by cash or check** when the dissertation is submitted to the Graduate School office.

The abstract, not to exceed 350 words, will be published in *Dissertation Abstracts International*. The determination of what constitutes an adequate abstract shall rest with the major department, but it should contain the usual elements of an abstract: rationale for the work, major methodology employed, primary results and implications of major findings.

All dissertations must be signed by no fewer than four members who are regularly engaged in graduate instruction and are members of the graduate faculty.

All approved dissertations are kept on file in the Auraria Library. One copy is deposited in the reference section and the other in the archives section of the library. The third copy is sent to the student's department.

When the dissertation is submitted to the Graduate School office, the candidate must sign an agreement with University Microfilms International to allow for publication in *Dissertation Abstracts International* and to grant University Microfilms International the right to reproduce and sell (a) copies of the manuscript in microform and/or (b) copies of the manuscript made from microform. The author retains all rights to publish and/or sell the dissertation by any means at any time except by reproduction from negative microform.

Final Examination/Defense

After the dissertation has been accepted, a final examination of the dissertation and related topics will be conducted. This examination will be wholly or partially oral, the oral portion is to be announced to the university community and is open to all. The examination will be conducted by a committee consisting of at least four members of the graduate faculty, one of whom must be from outside the student's department.

Notice of all examinations must be filed with the dean of the Graduate School at least two weeks prior to administration.

Time Limit

Doctoral degree students have eight years from the date of start of the doctoral program.

GRADUATE FACULTY

The graduate programs at the downtown Denver campus are delivered by faculty who are especially qualified by education and experience for graduate teaching. Everyone who teaches a graduate class at UCDHSC must be able to demonstrate significant ongoing achievements in one or more of the following:

- the scholarship of discovery, including both investigative search for knowledge and creative work in the arts
- the scholarship of integration, including synthesis of knowledge within and across disciplines
- the scholarship of application, including achievements in using knowledge and theory in professional, business, schools, and governmental contexts
- the scholarship of teaching, including successful instruction in school, university and other settings

Individual colleges and schools also require their graduate faculty to possess additional qualifications that are consistent with the national standards of their own academic disciplines. The university and college/school qualifications are published in the "Graduate Faculty" section of the Graduate School Rules. These rules make a distinction between regular faculty, who are typically full-time members of the UCDHSC 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 the downtown Denver campus. 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 UCDHSC.

RESEARCH OPPORTUNITIES

UCDHSC is strongly committed to the pursuit of new knowledge and novel creative expressions through the research and creative efforts of its faculty. Such activities not only advance knowledge and enhance the quality of life, but they also strengthen teaching by grounding instruction in scholarship and professional practice. In addition, these activities constitute an important component of UCDHSC's service to the community at large. Therefore, externally funded projects are a major priority at the downtown campus.

Research projects, training and public service programs encompass both traditional and nontraditional fields of study, focusing on issues important at all levels—city, state, national and international. The benefits to campus are substantial. Externally funded activities

- assist in sustaining scholarly discourse and creative work
- enable faculty members to engage in the advancement of knowledge,
- provide the foundation for solving pressing practical problems of vital concern to society
- enhance the educational opportunities of students both at undergraduate and graduate levels

All currently funded projects can be viewed at www.cudenver.edu/Academics/Sponsored+Programs/default.htm.

In addition, a great deal of research at the university is conducted without substantial external support. This research also yields important insights that are conveyed to a national audience through faculty publications, presentations, exhibits, performances and professional activities. Many members of the faculty are leaders within the national scholarly community. All these pursuits bring recognition to the university, establish the credibility of its faculty and enhance the value of the degree it confers.

The active engagement of graduate students in these scholarly and creative activities is the center piece of a vibrant program in graduate

education. The mentorship of graduate students by the graduate faculty is a major objective of the educational process. In addition, the consolidation of the downtown Denver campus with the Anschutz Medical Campus is opening new opportunities for collaborative, interdisciplinary work.

CENTERS AND INSTITUTES

As a public, urban university, both the Anschutz Medical Campus and the downtown Denver campus serve as the intellectual and technological centerpiece of Colorado's capital city. Along with that status comes a responsibility to the residents, businesses and communities of Denver. In response to this responsibility, the university has formed a series of outward-facing centers. The centers and institutes of the downtown Denver campus extend their application of knowledge and scholarship beyond the classroom in an effort to impact the entire metropolitan environment. These offer opportunities for graduate students to participate in cutting edge research and creative activities.

College of Architecture and Planning

CHILDREN, YOUTH AND ENVIRONMENTS CENTER FOR RESEARCH AND DESIGN

Director: Willem van Vliet
Office: Boulder Campus
Telephone: 303-735-5199

The Children, Youth and Environments Center for Research and Design works with the design professions and allied disciplines to contribute to the health, safety and welfare of children and youth. The center undertakes and supports interdisciplinary activities in research, teaching and community outreach that connect the worlds of research, policy and practice, while recognizing young people's capacity for meaningful participation in the processes that shape their lives. It focuses in particular on children and youth in environments of disadvantage and those with special needs.

COLORADO CENTER FOR COMMUNITY DEVELOPMENT (CCCD)

Director: Thomas Clark
Office: CU Building, 740
Telephone: 303-556-6650

The Colorado Center for Community Development assists organizations, communities, and neighborhoods which cannot afford or do not have access to such technical or educational assistance. The efforts of the Center are focused primarily on rural towns, low-income communities, and development organizations.

COLORADO CENTER FOR PRESERVATION RESEARCH

Research Assistant: Kris Christensen
Office: CU Building, 740G
Telephone: 303-352-3601

How do we recognize, evaluate, and understand the historical resources around us? How do we best maintain them as useful and meaningful parts of the environment as we shape it? How do we incorporate these considerations into the mainstream of design and planning as we shape our environment? Environmental sustainability demands that we do a better job reusing the existing built fabric. Place, which is so essential to the economy and soul of Colorado, demands that we do a better job understanding and maintaining what we value from the past.

COLORADO CENTER FOR SUSTAINABLE URBANISM

Director: Thomas Clark
Office: CU Building, 320EE
Telephone: 303-556-6650

The West is America's most urban region, and it is fast growing. How will Colorado accommodate a projected doubling of its population over the next few decades? How can we create livable communities for a growing population without creating the worst of sprawl, and without overtaxing or destroying the spectacular natural environment that brought many of us here in the first place? Where and what form will future urban growth take? What are the potential benefits, consequences and costs of this growth?

College of Arts & Media

NATIONAL CENTER FOR AUDIO/VIDEO FORENSICS

Director: Rich Sanders
Office: Arts Building, 288
Telephone: 303-556-2796

The National Center for Audio/Video Forensics (NCA/VF) was established as a cutting-edge forensics center fostering innovation for the development of new knowledge, applications, methodologies, products and services relating to audio and video forensics. Audio/video forensics is the science and practice of finding truth in audio/video pertaining to the law and other investigative situations. Topics of study and practice include audio/video enhancement and certified transcripts, voice recognition, speaker identification, audio/video authentication and specialized analyses. Each of these disciplines has multiple areas of study within it.

Housed in the College of Arts & Media the NCA/VF strives to establish cross-disciplinary, interinstitutional collaborations for research in forensic sciences and homeland security. We will improve opportunities for research through and increase the diversity of students seeking graduate and undergraduate degrees from the College of Arts & Media and open up advanced career opportunities for Colorado researchers in forensic sciences.

College of Engineering and Applied Science

CENTER FOR GEOTECHNICAL ENGINEERING SCIENCE

Director: NY Chang
Office: North Classroom, 3019A
Telephone: 303-556-2810

The Center for Geotechnical Engineering Science advances the understanding of the safety, reliability, performance and environmental impact of engineered geotechnical structures. The center also examines geotechnical stability, rock engineering, geoenvironmental engineering and expansive soils.

FACILITY FOR ADVANCED SPATIAL TECHNOLOGY (FAST LAB)

Director: Lynn Johnson
Office: North Classroom, 3018C
Telephone: 303-556-2372

Three schools—the Department of Geography and Environmental Sciences in the College of Liberal Arts and Sciences, the School of Engineering and Applied Science, and the Department of Urban and Regional Planning in the College of Architecture and Planning—form the core of GIS activity on the downtown Denver campus. The multidisciplinary laboratory provides state-of-the-art GIS science technology for teaching and research. FAST Lab equipment consists of 40 workstations, color printers and plotter, system server, network access and computer projection systems. The lab has secured site licenses for the most advanced GIS, image processing and database management software available in the industry.

TRANSPORTATION RESEARCH CENTER

Director: Bruce Janson
Office: Administration Building, 240
Telephone: 303-556-5246

The Transportation Research Center seeks to address local, state, national and international concerns in all areas of 21st-century transportation. The center works in collaboration with other colleges and businesses and has established several partnerships with Colorado's high-tech industry.

College of Liberal Arts and Sciences

CENTER FOR ETHICS AND COMMUNITY

Director: Candace Shelby
Office: Plaza Building, 108F
Telephone: 303-556-3223

The Center for Ethics and Community seeks to strengthen ethics in schools, the community, universities and all professions. Certificate programs are available to members of the UCDHSC community, as well as individuals outside the university.

CENTER FOR COMPUTATIONAL MATHEMATICS

Director: Leo Franca
Office: CU Building, 645
Telephone: 303-556-8460

The Center for Computational Mathematics was established to foster research in one of the discipline's most exciting new fields. With 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.

FOURTHWORLD CENTER FOR THE STUDY OF INDIGENOUS LAW AND POLITICS

Director: Glenn T. Morris
Office: King Center, 530
Telephone: 303-556-2850

This center provides resources and services that focus on the legal and political issues faced by indigenous populations. The center features a library, periodicals, audio and visual equipment and news file archives on current development issues surrounding "the Fourth World." It will soon offer a certificate program in this area.

School of Public Affairs

INSTITUTE FOR POLICY RESEARCH AND IMPLEMENTATION

Director: Lisa Carlson
Office: Lawrence Street Center, 525
Telephone: 303-352-3800

This institute consists of the Center for the Improvement of Public Management and the Center for Public-Private Sector Cooperation, also known as "The Centers."

The goal of these centers is to enhance the capacity of diverse communities and public, private and nonprofit organization to solve problems and meet the challenges of change by planning and problem solving, leadership training and development, training and technical assistance, and applied research and program evaluation.

WIRTH CHAIR FOR ENVIRONMENT AND COMMUNITY DEVELOPMENT POLICY

Director: Gary Hart
Office: Lawrence Street Center, 525
Telephone: 303-315-2070

The Wirth Chair is committed to helping governments, businesses, non-profit groups and community organizations form sustainable development partnerships that carefully balance economic, environmental and expanded social welfare objectives and strategies.

CENTER FOR EDUCATION POLICY ANALYSIS (CEPA)

Director: Paul Teske
Office: Lawrence Street Center, 500
Telephone: 303-556-5990

The Center for Education Policy Analysis performs research and policy analysis on issues related to prekindergarten, K-12 and higher education, and on related topics such as economic development, science and technology education and finance, both in Colorado and across the nation. CEPA includes a mix of SPA faculty members, full-time staff and PhD student researchers. CEPA prepared a first annual report on the state of Colorado education in 2006, as well as major studies of parent choice, teacher quality, prekindergarten training and school finance.

CENTER FOR DOMESTIC VIOLENCE

Director: Barbara Paradiso
Office: Lawrence Street Center, 440
Telephone: 303-315-2489

The mission of the Center on Domestic Violence is to end domestic violence by fostering institutional and social change through leadership development, education, research and community collaboration. The center responds to a nationally recognized need to educate and train individuals as leaders, advocates and managers and to better understand the causes and consequences of, and effective response strategies to domestic violence. Housed within the School of Public Affairs, its work is organized into three primary components:

Education. Graduate-level academic programs designed to prepare a workforce with the knowledge and ability to reduce, treat, intervene and prevent domestic violence.

Research. Advancing the understanding of domestic violence through original research.

Community. Build strong bonds between the academic and domestic violence communities through training, technical assistance and collaboration.

Through the development of a skilled workforce and informed nation, the center will advance the provision of domestic violence services, policy making and advocacy, ultimately improving the lives of thousands of women, children and men victimized by violence.

School of Business

BARD CENTER FOR ENTREPRENEURSHIP DEVELOPMENT

Director: Sandy Bracken,
Office: 535 16th Street, 300
Telephone: 303-620-4050

Established in 1996 as part of the Business School, the Bard Center offers graduate-level entrepreneurship courses that can be applied toward a graduate business degree or a certificate in entrepreneurship. The Bard Center also hosts an annual business plan competition, manages a venture capital fund to help launch student-initiated ventures and offers incubator space to emerging businesses.

CENTER FOR INFORMATION TECHNOLOGY INNOVATION (CITI)

Director: Rina Delmonico
Office: CU Building, 205
Telephone: 303-989-7575

The Center for Information Technology Innovation (CITI) includes prominent Colorado businesses as corporate sponsors and members. CITI matches the resources of the university with those of its member companies to provide a forum where innovative solutions to current issues and challenges can be explored and implemented. Its mission is to help organizations take full advantage of IT opportunities through programs of excellence in information interchange, education and research and through collaborative initiatives. It also serves as a resource for Business School faculty and students.

School of Education & Human Development

CENTER FOR COLLABORATIVE EDUCATIONAL LEADERSHIP (CEEL)

Director: Deanna Sands
Office: Lawrence Street Center, 650
Telephone: 303-556-6632

Founded in 1993, the Center for Collaborative Educational Leadership (CEEL) seeks to enhance university-community partnerships and expand collaborative efforts aimed at meeting the educational needs of the local community. The center comprises:

- Center for Evidence Based Practices in Early Learning
- Center for Teaching and Learning with Technology
- Colorado Principal's Center
- National Center for Culturally Responsive Educational Systems
- National Institute for Urban School Improvement
- Paraeducator Resource and Research Center
- Positive Early Learning Experiences Center
- Professional Development in Autism Center

EVALUATION CENTER

Director: Bonnie Walters
Office: North Classroom, 5015
Telephone: 303-556-6512

The center's mission as a collaborative enterprise is to promote evidence-based practices and policies through inquiry-based evaluation processes and products.

Office of Academic and Student Affairs

ADVANCE COLORADO CENTER

Director: Leslie Madsen
Office: 1625 Broadway, 950
Telephone: 303-592-4062

The Advance Colorado Center (ACC) provides a common headquarters and logistical support for nonprofit associations and organizations that, in turn, provide a variety of services and programs to companies, entrepreneurs and individuals to stimulate job growth and promote a sustainable corporate environment in Colorado.

CENTER FOR APPLIED SCIENCE AND MATHEMATICS FOR INNOVATION AND COMPETITIVENESS (CASMIC)

Director: Carole Basile
Office: CU Building, 700M
Telephone: 303-556-3336

CASMIC is designed to promote partnerships between UCDHSC, school districts, the business sector and other institutions of higher education for the purpose of growing the next generation of technically educated and trained individuals in Colorado.

CENTER FOR COMPUTATIONAL BIOLOGY

Director: Stephen Billups
Office: CU Building, 600
Telephone: 303-556-6269

The Center for Computational Biology (CCB) is a multicampus center aimed at catalyzing interdisciplinary research and developing education programs in computational biology throughout the University of Colorado system. The center integrates research and education and has successfully engaged associates in collaborations across disciplines and campuses. The CCB offers its own certificate in computational biology, which is a 15-semester-hour graduate program aimed at training students to participate in the rapidly expanding biotechnology industry. The center also has partners in industry and national laboratories.

CENTER FOR INTERNATIONAL BUSINESS EDUCATION AND RESEARCH (CIBER)

Director: Manuel Serapio
Office: Lawrence Street Center, 1150
Telephone: 303-556-4738

The Institute for International Business (IIB) strives to provide assistance to college educators everywhere who are looking to add or enhance international components in their curriculum. The IIB is one of only 30 such centers in the country that has been designated by the U.S. Department of Education as a Center for International Business Education and Research (CIBER).

LATINO/A RESEARCH AND POLICY CENTER (LRPC)

Director: Estevan Flores
Office: Lawrence Street Center, 1100
Telephone: 303-352-3700

The LRPC addresses issues of Latino/a health education and immigration to achieve our research and policy goals. The center's health work frames on cancer presentation and research and is funded largely by the National Cancer Institute.

NATIONAL LEARNING CENTER

Director: Steve Chapman
Office: Lawrence Street Center, 1170
Telephone: 303-315-2200

The National Learning Center's mission and purpose is to provide learning opportunities for professional adults who desire the knowledge, skills and ability necessary for them to improve their lives and the lives of the persons with whom they live and work. All of the center's products are tailored and developed by working directly with the customer to meet their specific learning needs.