

At A Glance: Health Sciences Center on the Anschutz Medical Campus

Students*

School of Medicine: 1,417

Medical Students Subtotal: 585

DPT Students Subtotal: 135

Graduate Students Subtotal: 523

MPAS Physician Asst Students Subtotal: 79

Nondegree Students Subtotal: 95

School of Dentistry: 233

Dental Students Subtotal: 192

Undergraduate Dental Hygiene Students
Subtotal: 41

School of Nursing: 692

Nursing Doctorate Students Subtotal: 3

DNP Students Subtotal: 14

MS, PhD Graduate Students Subtotal: 295

Undergraduate Students Subtotal: 376

Nondegree Students Subtotal: 4

School of Pharmacy: 555

PharmD Students Subtotal: 513

Graduate Student Subtotal: 41

Nondegree Students Subtotal: 1

Health Sciences Center Total: 2,897

Faculty*

HSC Total: 1,638

Dentistry: 53

Medicine: 1,467

Nursing: 60

Pharmacy: 58

Degree Programs

GRADUATE SCHOOL

§ Programs below are shared with the
Graduate School

SCHOOL OF DENTISTRY

Dental Surgery: DDS

Dental Hygiene: BS

SCHOOL OF MEDICINE

Analytic Health Sciences: PhD§

Biochemistry: PhD§

Biostatistics: MS§

Biophysics and Genetics: MS, PhD§

Cell and Developmental Biology: PhD§

Clinical Science: MSCS, PhD§

Experimental Pathology: PhD§

Masters in Physician Assistant Studies: MPAS

Medical Science: BS

Medicine: MD

Microbiology and Immunology: PhD§

Neuroscience: PhD§

Pharmacology: PhD§

Physical Therapy: DPT

Physiology: PhD§

Public Health: MSPH§



SCHOOL OF NURSING

Nursing: BS, MS§, PhD§, DNP

SCHOOL OF PHARMACY

Pharmaceutical Sciences: PhD§

Pharmacy: PharmD

Toxicology: PhD§

Student Organizations

Academy of Students of Pharmacy/ASP-APHA

All aBout Couples—ABC

American Association of Dental Education

American Student Dental Association

American Medical Student Association/AMSA

Asian American Pharmacy Students Association

Christian Health Fellowship

Colorado Society for Health-Systems Pharmacists

Colorado Student Nurses Association

Complementary, Alternative, and Integrative

Medicine Student Interest Group (CAIMSIG)

Cycling Team

Dental Student Council

Dental Student Fraternities: Alpha Omega,

Delta Sigma Delta

Emergency Medicine Interest Group

Graduate Student Council

Health Professionals for Social Responsibility

Keppa Epsilon—Pharmacy

Medical Student Council

Melomania—HSC Orchestra

National Community Pharmacists Association

Nutrition and Preventive Health Student

Interest Group

Oyate—Diversity Student Council

Positive Approaches to Wellness for Students

(PAWS)—use of animals/pets in therapy

Pharmacists for Christ

Pharmacy Student Council

Phi Delta Chi—School of Pharmacy

Phi Delta Epsilon—School of Medicine

Phi Lambda Sigma/Alpha Xi Chapter—

Pharmacy

Phi Rho Sigma

Prism—GLBTI and Supporters

Reproductive Health Interest Group

Rho Chi—Pharmacy Honor Society

Rural Health Network

Silver Society—Child Health Associate/

Physician Assistant Student Society

Student Academy of the American Academy
of Physician Assistants (SAAAPA)

Student American Dental Hygienists' Association

Student Interest Group in Neurology

Student National Medical Association

Student National Pharmacists Association

Student Senate—HSC Student Governance

Students for Global Health

Bragging Rights

U.S. News & World Report, America's Best

Graduate Schools: See At A Glance:

UCDHSC on page 4 in the University
chapter of this catalog.

One of the country's most selective schools
of dentistry.

Colorado's only School of Medicine.

Consistently ranked School of Nursing.

The School of Nursing instituted the first

nurse practitioner and school nurse

programs in the U.S.

Medical students collectively donate 22,000
hours of community service each year.

The School of Nursing has a 30-year history
of distance education—with more than

75% of courses available online, in

whole or in part, today.

Sidney Altman, PhD, 1989 Nobel Prize

Winner in Chemistry is an alumnus

of the Graduate School.

National Institutes of Health (NIH) Rankings

In 2005, the School of Pharmacy ranked first

in percentage of PharmD faculty with

NIH funding; second in the percentage

of PhD faculty with NIH funding; third

in the nation (among 100 pharmacy

schools) for individual awards per PhD

faculty member; and ninth in the

nation for total NIH funding.

Together with its five affiliated hospital partners,

the School of Medicine ranks fourth of

75 public medical schools in the country

for NIH research expenditures (15th of

125 among all U.S. medical schools).

*Fall 2006 end-of-term enrollment data ‡Fiscal Year 2005-2006 data

Health Professions

Undergraduate Health Careers Advisors
(downtown campus)
Charles Ferguson
303-556-4350
or
Kent Nofsinger
303-556-6218

Not sure what health specialty to enter?
Visit the Health Careers
Web Site for information,
[http://thunder1.cudenver.edu/
clas/healthcareers/](http://thunder1.cudenver.edu/clas/healthcareers/)

Graduate Advisors
See contact information
under each school in
this chapter.

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. On the downtown Denver campus, two colleges offer health-related undergraduate programs. Students who complete their prerequisites or undergraduate degrees on this campus may choose to apply to graduate and health professional programs on the Anschutz Medical Campus. Three schools on the downtown campus offer health-related graduate programs. Downtown Denver 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 at the Health Sciences Center on the Anschutz Medical Campus offer students unparalleled training in the health professions. Admission to these programs is very selective, and admission to the downtown Denver campus does not assure admission to Health Sciences Center 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.

UNDERGRADUATE PROGRAMS ON THE DOWNTOWN CAMPUS

Two colleges on UCDHSC's downtown Denver campus offer health-related programs for students seeking careers in the health sciences. *Admission to the downtown Denver campus, however, does not assure admission to any professional health career program.* Admission to those programs is a separate, competitive process open to qualified applicants from any accredited college or university.

College of Liberal Arts and Sciences

DEPARTMENT OF BIOLOGY

Contact: Lisa Johansen
Telephone: 303-556-6250
E-mail: Lisa.Johansen@cudenver.edu
Web site: www.cudenver.edu/clas/biology/

To serve the needs of students who wish to obtain recognition for the acquisition of specialized skills in biology and to better prepare students for graduate school, health careers, and jobs in industry, the Department of Biology offers a certificate program in biotechnology.

HEALTH CAREERS

Advisor: Charles Ferguson
Telephone: 303-556-4350
Advisor: Kent Nofsinger
Telephone: 303-556-6218
Web site: [www.cudenver.edu/clas/biology/
healthCareers.html](http://www.cudenver.edu/clas/biology/healthCareers.html)

Health career advisors on the downtown campus assist in planning a course of study designed to improve your chances of success in the health career of your choice, including: dentistry and dental hygiene, medicine, medical technology, nursing, optometry, osteopathy, pharmacy, physical therapy, physician assistant, podiatry or veterinary medicine.

A comprehensive list of health career options and additional information to help you mold your academic experience to your specific goals is available on the health careers Web site.

HEALTH AND BEHAVIORAL SCIENCES

Contact for Minor: Sharry Erzinger
Telephone: 303-556-6793
Web site: www.cudenver.edu/clas/hbssc/

The health and behavioral sciences program has developed a minor in community health science that is designed to provide undergraduates with the basic intellectual and methodological tools needed to understand the societal contexts of health, healthcare and public health. Graduates with a minor in community health science will be successful in their pursuit of graduate degrees in a broad range of fields, including the biomedical sciences, social and behavioral sciences, public health, law, medicine, dentistry, pharmacy, business administration and health services research. The program is especially appropriate for students intending to pursue careers in public health, as well as the primary care specialties in medicine, nursing, or health policy and administration.

A major is not currently available, but students may complete an individually structured major (ISM) that combines course work in Health and Behavioral Science with that of related fields such as anthropology, biology, and psychology. For details see the “Individually Structured Major” section in the College of Liberal Arts and Sciences chapter of the catalog.

College of Engineering and Applied Science

Contact: Engineering Student Services (advising)
Telephone: 303-556-4768
Web site: www.cudenver.edu/engineer

The desirability of obtaining an engineering education prior to undertaking a study of medicine is increasing continually as medicine itself is evolving. A great deal of new equipment, most of it electronic, is being developed to assist the medical practitioner in treatment of patients. Bioengineering, engineering systems analysis, probability and communication theory are highly applicable to medical problems. The College of Engineering and Applied Science offers students a premedicine option.

GRADUATE PROGRAMS ON THE DOWNTOWN CAMPUS

Business School

Director: Errol L. Biggs
Telephone: 303-556-5845
E-mail: Errol.Biggs@cudenver.edu
Web site: www.cudenver.edu/Academics/Colleges/Business/Programs

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: Lynn E. Johnson
Telephone: 303-556-2372
E-mail: MEngGIS@cudenver.edu

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: John Brett
Telephone: 303-556-8497
Fax: 303-556-8501
Web site: www.cudenver.edu/clas/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: 303-556-4300
E-mail: Richard.Miech@cudenver.edu
Web site: www.cudenver.edu/clas/hbssc/

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 healthcare 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 healthcare systems may enhance quality, efficacy and access

The significance of these skills in addressing our current healthcare 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 healthcare settings.

PROGRAMS ON THE ANSCHUTZ MEDICAL CAMPUS

Information about Health Sciences Center programs in this chapter is for reference only. Contact individual schools and program directors for details.

Graduate School

Contact: Office of the Dean
Telephone: 303-315-7928
Web site: www.uchsc.edu/gc

Degree Programs: *Master of science programs in: biostatistics; biophysics and genetics—genetic counseling; nursing—nurse midwifery, nurse practitioner (women's health care, family, adult, geriatric and pediatric), adult clinical nurse specialist, health care informatics, nursing leadership; pediatric special needs*
Master of science in clinical science
Master of science in public health
Doctor of philosophy in: analytic health sciences—bioinformatics, biostatistics, epidemiology; biochemistry—biochemistry and molecular

| Health Sciences Center Programs | | | | | | |
|------------------------------------|----------------------------------------------------------------|------------------------------|----------------|--------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------|
| | Degree | Program length in years | Entering class | College prerequisites | Entrance exam | Application deadline |
| Physician Assistant Studies | Master of Physician Assistant Studies (MPAS) | 3 | 40 | Bachelor's degree and prerequisite courses | GRE | September 1 See Web site for details |
| Physical Therapy | Doctor of Physical Therapy (DPT) | 3 | 40-48 | Bachelor's degree, field experience, prerequisite courses | GRE | December 1 |
| Dental Hygiene | Bachelor of Science in Dental Hygiene (BS) | 2 | 18 | 60 semester hours or 90 quarter hours required courses | NA | December 1 |
| Dentistry | Doctor of Dental Surgery (DDS) | 4 | 50 | 90 semester hours or 135 quarter hours required course work | DAT | January 1 |
| Pharmacy | Doctor of Pharmacy (PharmD) | 4 | 130 | 60 semester hours and prerequisite courses | PCAT | December 1 |
| Graduate School | Doctor of Philosophy (PhD) and Master of Science (MS) | PhD=4 to 7 MS=2 to 5 | Varies | Bachelor's degree | GRE | Varies |
| Public Health | Master of Science in Public Health | 2 to 3 | 30-35 | Bachelor of arts or science or 90 semester hours (30 upper-division level), including required courses | GRE | February 1 |
| Nursing grad | Doctor of Nursing Practice (DNP) Doctor of Philosophy (PhD) | 4 | 38 | 59 semester hours or 90 quarter hours required courses | NA | January 1 |
| Nursing undergrad | Bachelor of Science (BS) | 5 semesters (include summer) | 165 | 60 semester hours and prerequisite courses | NA | Priority: Aug. 31 Final: Nov. 15 |
| Medicine | Doctor of Medicine (MD) | 4 | 156 | Bachelor's degree or at least 120 semester hours with major leading to degree and required courses | MCAT | November 1 |

genetics, biomolecular structure; biophysics and genetics—human medical genetics, molecular biology; cell and developmental biology—reproductive sciences; clinical sciences; experimental pathology—cancer biology; microbiology and immunology; neuroscience; nursing; pharmaceutical sciences; pharmacology; physiology—physiology and biophysics; toxicology

At the University of Colorado Health Sciences Center 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 Dentistry

Contact: Office of Admissions and Student Affairs

Telephone: 303-724-7120

Web site: www.uchsc.edu/sod

Degree Programs: *BS in dental hygiene**, *doctor of dental surgery, international student program, orthodontics, periodontics and general practice residency programs*

In this nationally recognized, award-winning program, students graduate with the ability to offer a broad range of dental services. It is the most selective dental school in the United States—with more than

1,400 applicants annually for only 50 positions in the freshman class. In a program unique in the country, the 192 dental students, as a graduation requirement, also provide an academic year's dental clinical care to underserved populations throughout Colorado. Home to the region's only university-based dental implant center, the school pioneers research in oral cancer, salivary gland disease, neurobiology and pain control.

*prerequisite undergraduate courses and/or experience required

School of Medicine

Contact: Office of Admissions

Telephone: 303-315-7361

Web site: www.uchsc.edu/som/admissions

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 the University of Colorado Hospital, The Children's Hospital and other affiliated hospitals, working side by side with nearly 1,000 graduate doctors who are in training in medical specialties and generalist care at the university. In addition to providing exceptional patient care and education, the medical school's greatest achievement has been the ability to attract gifted faculty and students who bring national renown to the school. The school's physicians and research scientists have pioneered breakthrough medical advances that have become national and world models.

GRADUATE MEDICAL EDUCATION (RESIDENCY AND FELLOWSHIP PROGRAMS)

Telephone: 303-315-7424

Web site: www.uchsc.edu/gme

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, provides details about these opportunities on the Anschutz Medical Campus.

CONTINUING MEDICAL EDUCATION

Web site: www.uchsc.edu/cme/

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

School of Nursing

Contact: Office of Admissions

Telephone: 303-315-5592

Web site: www.uchsc.edu/nursing/education

Degree Programs: *BS in nursing, RN-BS in nursing, doctor of nursing practice, PhD in nursing*

Ranked 15th in the nation in overall excellence, the pace-setting University of Colorado School of Nursing enrolls nearly 700 undergraduate and graduate students. The philosophy that drives the school—that knowledge of human responses and natural healing processes balances technological advances and biomedical treatments and cures—shapes its programs. In 1986, the School of Nursing established the Center for Human Caring, the nation's first formal program to undertake a systematic and comprehensive study of the art and science of caring medical treatment.

School of Pharmacy

Contact: Office of Student Services

Director: Beverly Brunson

Prepharmacy Advisor: Richard Hurray

Telephone: 303-315-6100

Fax: 303-315-6111

Web site: www.uchsc.edu/sop

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 consultation and patient counseling 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 400 undergraduate 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 bachelor's, doctor

of pharmacy or PhD degree. The school also provides continuing education programs to pharmacists and other health practitioners throughout the state.

Child Health Associate/Physician Assistant

Contact: Office of Admissions

Telephone: 303-315-7963

E-mail: chapa-info@uchsc.edu

Web site: www.uchsc.edu/chapa

Degree Program: *MPAS, Child health associate/physician assistant program*

The child health associate/physician assistant (CHA/PA) is a primary care PA with specialized training in the care of infants, children and adolescents as well as training in the care of adult patients. Program graduates are prepared to provide comprehensive medical care to patients of all ages and practice under state and national guidelines established for all PAs. Graduates are employed in many settings including managed care organizations, community health centers, physician's offices, public health agencies, hospitals, school based adolescent clinics, emergency departments and rural and inner city health care delivery sites.

Public Health

Contact: Program Coordinator

Telephone: 303-315-8359

Web site: www.uchsc.edu/pmb/msph/index.htm

Degree Program: *MSPH, public health*

The master of science in public health program provides the training for students to enter a variety of public health careers. Students acquire knowledge, skills and practical experience that prepare them for professional activities including: epidemiological and health services research, community needs assessment, environmental and occupational health, health policy, health promotion and administration of public health programs.

Physical Therapy

Contact: Office of Admissions

Telephone: 303-372-9144

Web site: www.uchsc.edu/pt

Degree Program: *Doctor of physical therapy*

The UCDHSC Physical Therapy program graduates hold a doctor of physical therapy degree following completion of a three-year professional preparation program that includes didactic learning and extensive clinical experiences. Students are prepared to excel in the physical therapy profession and adapt to the ever-evolving healthcare environment using the expertise and clinical decision-making skills they develop in the DPT program. As part of the School of Medicine, and members of the healthcare team, our entry-level students routinely interact with other health professionals on campus and in clinical situations. Foundational elements of our curriculum include movement science, evidence-based practice, patient-centered care and the delivery of healthcare services as members of the physical therapy doctoring profession.