Graduate Programs in Epidemiology

2022-2023
Student and Advisor Handbook

Revised July 2022
Statement about COVID-19 at ColoradoSPH

The Colorado School of Public Health requires that all students (MS, PhD, MPH, DrPH, certificate, and non-degree) must be fully vaccinated with a World Health Organization-approved COVID-19 vaccine, unless they have received an approved medical accommodation. This requirement is in accordance with the CU Anschutz Medical Campus COVID-19 Vaccination Requirement and Compliance Policy (policy number 3012).

The University of Colorado has determined to require that all University of Colorado students, faculty, and staff receive a COVID-19 vaccine before the start of their program or employment. CU and its four campuses join several other Colorado public and private higher education institutions to make this decision, including the Colorado State University system, the University of Northern Colorado, Fort Lewis College, Metropolitan State University of Denver, Colorado College, and the University of Denver.

The CU Anschutz Medical Campus self-reporting requirement remains in effect for everyone – regardless of vaccination status – who has COVID-19-like symptoms, tests positive or may have been exposed to a COVID-19 case. Anyone fitting these categories is asked to stay home, self-report, and not to return to on-campus activity until this team has officially cleared them for return. More information about self-reporting is available here.

For the most up-to-date information about COVID-19 metrics, best practices, and data at the CU Anschutz Campus, please visit https://www.cuanschutz.edu/coronavirus/covid-19-dashboard.
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Welcome to the Colorado School of Public Health!

This is an extraordinary time to be working on community and population health. There is a rejuvenated realization that many of the determinants of health lay not in medical care, but in our social and physical communities, the exposures we receive from the environment, the health care systems that we have access to, and the choices we make in our daily behaviors.

We are a collaborative school of public health, with a strong partnership between three major public universities, and also with our ties to and belief in the importance of communities using scientific evidence to develop their own priorities and strategies for achieving health.

As you embark on your studies, I encourage you to reach out to faculty for mentorship. There are vast opportunities for you to be involved in education, research and practice. I encourage you to get involved beyond the classroom. It is our vision that together we will learn and work to allow all members of our communities to reach their highest potential for healthy, productive lives.

As the Associate Dean for Academic and Student Affairs, I encourage you to explore all of the opportunities that the Colorado School of Public Health has to offer.

Sincerely,

Danielle (Dani) R. Brittain, PhD
Associate Dean for Academic and Student Affairs
Message from the Director of the Graduate Program in Epidemiology

Welcome to the Epidemiology Department!

You are joining an enthusiastic group of colleagues working together to improve population health through discovery, education and community engagement. Faculty in the Epidemiology Department conduct innovative research in diverse areas including infectious disease, etiology and prevention of diabetes in youth and adults, genetic epidemiology, injury prevention, nutrition and environmental health, to list just a few. Our goal is to train the next generation of scientist leaders in the ever-evolving and essential field of epidemiology. We work with our students to apply their research interests to a variety of health problems in Colorado and across the world. We are a tight-knit department with high levels of student engagement. Our students not only receive training to guide a dynamic career, but also establish friendships and collegial relationships that last a lifetime.

As the directors of the Epidemiology MS and PhD programs, I sincerely welcome you to the Colorado School of Public Health.

Sincerely,

Tessa Crume
Policy Regarding Changes to the Handbook

This handbook complements the policies and procedures of the Graduate School. It includes information specific to the Colorado School of Public Health and the Epidemiology Graduate Programs. Please retain it for reference on academic policies, thesis, graduation, and other topics. This handbook was accurate and up to date when printed in June 2020. It does not constitute a contract with the University of Colorado Denver, either expressed or implied. The Graduate School and the Epidemiology Graduate Programs reserve the right at any time to change, delete, or add to any of the provisions at their discretion. Furthermore, the provisions of this document are designed to serve as firm guidelines rather than absolute rules, and exceptions may be made on the basis of extenuating circumstances.

Websites

School Site: https://coloradosph.cuanschutz.edu/

Program Site: https://coloradosph.cuanschutz.edu/education/departments/epidemiology

ColoradoSPH Academic and Student Affairs Resources: https://coloradosph.cuanschutz.edu/resources/for-current-students

Graduate School Policies and Resources: http://www.ucdenver.edu/academics/colleges/Graduate-School/Pages/default.aspx
Colorado School of Public Health

Overview
The Colorado School of Public Health is a collaborative school of public health with the University of Colorado, Colorado State University, and the University of Northern Colorado. It is the first school of public health in a nine-state region of the Rocky Mountain West.

Emerging infectious diseases, chronic diseases, emergencies, lifestyles, the environment, disparities and various other factors impact the health of our communities. The Colorado School of Public Health aims to meet the challenges that our communities face by preparing a public health work force with the skills, research, knowledge, and values necessary to advance the health of our communities. The combined faculty, located at the three partner institutions, is at the forefront of various health issues and research, proactively addressing and improving the lives of our children, adults and aging populations.

As part of the commitment to meeting the training and research needs of the public health workforce, the Colorado School of Public Health offers educational programs that include masters, doctoral, residency, and certificate programs. Descriptions and materials are available through the Colorado School of Public Health website.

Mission Statement
The mission of the Colorado School of Public Health is to promote the physical, mental, social and environmental health of people and communities in the Rocky Mountain Region and globally. The mission will be accomplished through collaborations in education, population-based research, and community service that bring together institutions, agencies, and diverse populations.

Vision Statement
The Colorado School of Public Health, a collaborative, multi-disciplinary, multi-institutional, learning, research and service environment, will inspire academicians, practitioners and students of public health to work collaboratively to assure that all people and communities are healthy and their environment sustainable.

Diversity Statement
The Inclusion, Diversity and Health Equity mission of the Colorado School of Public Health is to build a diverse and representative academic community, which recognizes the importance of social and economic justice in relation to health. The Colorado School of Public Health will work to build an inclusive, culturally competent institution, which includes the environment, policies and procedures, faculty, staff, leadership and student body.

Accreditation
The Colorado School of Public Health was first accredited from the Council on Education for Public Health (CEPH) 2010. CEPH is an independent agency recognized by the U.S. Department of Education to accredit schools of public health and public health programs outside of schools of public health. As an accredited school of public health, graduates at the masters and doctoral levels are eligible to sit for the Public Health Certification examination.
## Administration

### University Leadership & Academic Partners

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Donald M. Elliman Jr.</td>
<td>Chancellor, University of Colorado Anschutz Medical Campus</td>
</tr>
<tr>
<td>Andrew Feinstein, PhD</td>
<td>President, University of Northern Colorado</td>
</tr>
<tr>
<td>Joyce McConnell, JD, LLM</td>
<td>President, Colorado State University</td>
</tr>
</tbody>
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### Colorado School of Public Health Leadership

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Jonathan Samet, MD, MS</td>
<td>Dean</td>
</tr>
<tr>
<td>Cathy Bradley, PhD</td>
<td>Associate Dean for Research</td>
</tr>
<tr>
<td>Dani (Danielle) Brittain, PhD</td>
<td>Associate Dean for Academic and Student Affairs</td>
</tr>
<tr>
<td>Ned Calonge, MD, MPH</td>
<td>Associate Dean for Public Health Practice</td>
</tr>
<tr>
<td>Sam MaWhinney, ScD</td>
<td>Associate Dean for Faculty Affairs</td>
</tr>
<tr>
<td>Teresa Sharp, PhD</td>
<td>Director, University of Northern Colorado</td>
</tr>
<tr>
<td>Christine Gillen, MS</td>
<td>Associate Dean for Finance and Administration</td>
</tr>
<tr>
<td>Tracy Nelson, PhD, MPH</td>
<td>Director, Colorado State University</td>
</tr>
<tr>
<td>Cerise Hunt, PhD, MSW</td>
<td>Associate Dean for Equity, Diversity and Inclusion</td>
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### Department Chairs

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Lee Newman, MD, MA</td>
<td>Interim Chair, Environmental and Occupational Health</td>
</tr>
<tr>
<td>Jill Norris, PhD, MPH</td>
<td>Chair, Epidemiology</td>
</tr>
<tr>
<td>Jenn Leiferman, PhD</td>
<td>Chair, Community and Behavioral Health</td>
</tr>
<tr>
<td>Glen Mays, PhD</td>
<td>Chair, Health Systems, Management &amp; Policy</td>
</tr>
<tr>
<td>Debashis Ghosh, PhD</td>
<td>Chair, Biostatistics and Informatics</td>
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### Anschutz Medical Campus Staff

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Katherine Brumfield, MA</td>
<td>Career Services Manager</td>
</tr>
<tr>
<td>Thuy Nguyen, MPS</td>
<td>Assistant Director of Human Resources</td>
</tr>
<tr>
<td>Tonya Ewers</td>
<td>Director of Communications &amp; Marketing</td>
</tr>
<tr>
<td>Lindsey O’Reilly</td>
<td>Admissions Processing Specialist</td>
</tr>
<tr>
<td>Kayla Gray</td>
<td>Student Lifecycle Sr. Professional</td>
</tr>
<tr>
<td>Bobbi Ortega</td>
<td>Executive Assistant to the Dean</td>
</tr>
<tr>
<td>Katie Guthmiller</td>
<td>Recruitment &amp; Outreach Sr. Professional</td>
</tr>
<tr>
<td>Tony Romero, MA</td>
<td>Assistant Director, Evaluation &amp; Accreditation</td>
</tr>
<tr>
<td>Laura Hager</td>
<td>Assistant Director, Enrollment Operations</td>
</tr>
<tr>
<td>Brenda Witt</td>
<td>Academic Affairs Specialist</td>
</tr>
</tbody>
</table>

### Graduate School

<table>
<thead>
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<th>Name</th>
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<tbody>
<tr>
<td>David Engelke, PhD</td>
<td>Dean</td>
</tr>
<tr>
<td>Teresa Bauer-Sogi</td>
<td>Academic Services Manager</td>
</tr>
<tr>
<td>Inge Wefes, PhD</td>
<td>Associate Dean</td>
</tr>
<tr>
<td>Marlena Morales</td>
<td>Academic Services Coordinator</td>
</tr>
<tr>
<td>Susan Nagle, MS</td>
<td></td>
</tr>
<tr>
<td>Patricia Goggans</td>
<td></td>
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Revised July 2022
## Frequently Used Phone Numbers

<table>
<thead>
<tr>
<th>Name:</th>
<th>Phone Number</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>ColoradoSPH Office of Student Affairs</td>
<td>303-724-4613</td>
<td>Fitzsimons Bldg, Rm E3360</td>
</tr>
<tr>
<td>Tessa Crume, Program Director</td>
<td>303-724-4452</td>
<td>Fitzsimons Bldg, Rm W3137</td>
</tr>
<tr>
<td>Brenda Witt (Academic Affairs Specialist)</td>
<td></td>
<td>Fitzsimons Bldg, Rm E3300</td>
</tr>
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<table>
<thead>
<tr>
<th>Campus Office:</th>
<th>Phone Number</th>
<th>Room</th>
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</thead>
<tbody>
<tr>
<td>Bookstore</td>
<td>303-724-2665</td>
<td>Ed2 S, 1st Fl</td>
</tr>
<tr>
<td>Bursar's Office</td>
<td>303-556-2710</td>
<td>Ed2 N, 3rd Fl</td>
</tr>
<tr>
<td>Campus Information</td>
<td>303-724-6245</td>
<td></td>
</tr>
<tr>
<td>CU Online Help Desk (Canvas)</td>
<td>303-315-3700</td>
<td></td>
</tr>
<tr>
<td>Disability, Access, and Inclusion</td>
<td>303-724-8428</td>
<td>Health Sciences Lib, V23-1409A1</td>
</tr>
<tr>
<td>Health Sciences Library</td>
<td>303-724-2152</td>
<td>12950 E. Montview Blvd.</td>
</tr>
<tr>
<td>Financial Aid Office</td>
<td>303-724-8039</td>
<td>Ed2 N, 3rd Fl</td>
</tr>
<tr>
<td>Graduate School</td>
<td>303-724-2915</td>
<td>Fitzsimons Bldg, Rm W5107</td>
</tr>
<tr>
<td>Ombuds (Counseling Services/Conflict Resolution)</td>
<td>303-724-2950</td>
<td>Fitzsimons Bldg, Rm C7005</td>
</tr>
<tr>
<td>Parking</td>
<td>303-724-2555</td>
<td>Fitzsimons Bldg, 1st Fl West</td>
</tr>
<tr>
<td>Payroll</td>
<td>303-724-2555</td>
<td>Boulder Campus</td>
</tr>
<tr>
<td>Registrar</td>
<td>303-735-5600</td>
<td></td>
</tr>
<tr>
<td>Student Assistance Office</td>
<td>303-724-7686</td>
<td>Ed2 N, 3rd Fl</td>
</tr>
</tbody>
</table>
Computer Labs
Research and study opportunities are enhanced through the various resources available to students, including: student computing labs (Ed1 CTL P26-1501, Ed2 N CTL P28-2201 & RC1 N CTL P18-1309) and student rooms in the Education 1, Education 2, and the Research 1 North Buildings.

Student Mail Boxes
Student mailboxes are used to send important information to students and should be checked on a regular basis. The EPI student mailboxes are located on the 3rd Floor of Bldg. 500 to the left of the main elevators.

Scheduling Rooms for Meetings or Defense
To schedule the conference rooms (Ward Darley, Teleconference Room, or Dean’s Conference Room) on the 3rd Floor of the Fitzsimons Building or another room at the Anschutz Medical Campus for a committee meeting or defense, please contact (303) 724-4442.

Preventive Medicine Grand Rounds, Department of Epidemiology Seminar Series and Epidemiology Discussion Group
The monthly Preventive Medicine Grand Rounds is the first Monday of every month except for September and January. In September, Grand Rounds is the 2nd Monday of the month. Grand Rounds are not held in January.

Epidemiology Discussion Group is held during the academic calendar year on Tuesdays from noon-1.

http://www.ucdenver.edu/academics/colleges/PublicHealth/About/activitiesandevents/Pages/activitiesandevents.aspx

Epidemiology Discussion Group is mandatory. All students are encouraged to attend the Preventive Medicine Grand Rounds and Department of Epidemiology Seminar Series.
Family Educational Rights and Privacy (FERPA)

Purpose of FERPA
FERPA deals specifically with the education records of students, affording them certain rights with respect to those records. For purposes of definition, education records are those records, which are:

1. Directly related to a student and,
2. Maintained by an institution or a party acting for the institution.

FERPA gives students who reach the age of 18 or who attend a post-secondary institution the right to inspect and review their own education records. Furthermore, the right to request amendment of records and to have some control over the disclosure of personally identifiable information from these records, shift from the parent to the students at this time.

FERPA applies to the education records of persons who are or have been in attendance in post-secondary institutions, including students in cooperative and correspondence study programs, video conference, satellite, internet or other electronic forms. FERPA does not apply to records of applicants for admission who are denied acceptance or, if accepted, do not attend an institution.

Directory Information
FERPA directory information is information contained in your education record that generally would not be considered harmful or an invasion of privacy if disclosed. Under current CU Denver policy, the following information is designated as directory information:

1. name
2. address, telephone number, and email address
3. dates of attendance
4. registration status
5. class
6. major
7. awards
8. honors
9. degrees conferred
10. photos

Although these items are designated by CU Denver as directory information, only a limited amount of this information is routinely disclosed by CU Denver officials and the University retains the discretion to refuse to disclose directory information if it believes such disclosure would be an infringement of your privacy rights.

Nondisclosure of Directory Information
Students may ask the university not to publicly disclose directory information. Please note, however, that if you are seeking employment, the Registrar's Office cannot release your enrollment, degree status or major to anyone unless you come to the Registrar's Office with a photo ID.
Forms to prevent disclosure of directory information can be obtained at The Anschutz Medical Campus Registrar’s Office or via the Registrar’s website at http://www.ucdenver.edu/student-services/resources/registrar/Pages/default.aspx. Questions regarding your rights under FERPA should be directed to the Registrar’s Office:

Anschutz Medical Campus:
Phone: 303-724-8059
Fax: 303-724-8060
Email: Registrar@CUAnschutz.edu

For additional information regarding FERPA, please visit the complete policy on the Registrar’s website at:

https://www.ucdenver.edu/registrar/student-resources/ferpa

Immunization Policy
To ensure that a minimum standard of public health and safety is provided for our faculty and students, all students matriculating into any ColoradoSPH program are required to provide proof of immunizations for measles, mumps, rubella, and tuberculosis through CastleBranch, in addition to official documentation of COVID-19 vaccination or medical exemption. The Office of Academic & Student Affairs must receive proof of COVID-19 vaccination or exemption in CastleBranch by August 15, 2022. Other immunizations via CastleBranch are due at least two weeks prior to the start of a student’s first term in the program. Students who do not submit immunization records at the specified time may experience a hold on future registration and/or be administratively withdrawn from classes until proof of immunizations has been received.

Health Insurance Requirement
Full-time graduate students (defined as five credit hours per semester) are required to have a University student health insurance plan, unless proof of comparable coverage can be verified. Students are required to have insurance at their home campus only. If a student wishes to waive the insurance requirement due to comparable personal coverage, they may do so by petitioning the student health office at their home campus. Students in part-time status may also be eligible to purchase a student health insurance plan. Please check with the student health office on your home campus for more information.

Background Check Policy
Students matriculating into any ColoradoSPH degree-seeking program are required to pass a criminal background investigation. The background check is conducted during the admissions process. Students are required to pay a non-refundable processing fee for conducting the background check. Students who work at the university also need to submit the processing fee and complete the student background check, as additional criteria are specified beyond that required for employment. This must be completed before course registration can begin.

Student Academic Honor and Conduct Code
Education at the Colorado School of Public Health (ColoradoSPH) is conducted under the honor system. Matriculation at the Colorado School of Public Health implies the acceptance of, and
adherence to, the Student Academic Honor and Conduct Code. All students who have entered graduate and health professional programs should have developed the qualities of honesty and integrity, and each student should apply these principles to his or her academic and subsequent professional career. All students are expected also to have achieved a level of maturity reflected by appropriate conduct at all times. The Honor and Conduct Code of UC Denver, and the Academic Appeals Process of the Graduate School also govern epidemiology Graduate students. Please see the Graduate School policies here:

https://graduateschool.ucdenver.edu/forms-resources/resources

Although it is not possible to list every situation that violates the Student Academic Honor and Conduct Code, the following examples provide a frame of reference:

1. Academic Honesty

Students should adhere to the highest standards of academic honesty and integrity. Examples of behavior that violate these standards include, but are not limited to: plagiarism (including the undocumented or improperly documented use of internet and web-based information), cheating, copying solutions from solutions manuals or from tutors, and using it as your own work, citing references not used in your work, illegitimate possession and/or use of examinations, violation of the ethical standards for conducting research, and falsification of official records.

2. Professional Conduct

As future health professionals, students should also adhere to the highest standards of professionalism. Examples of unprofessional conduct include misrepresentation of effort, credentials, or achievement in either the academic or professional setting; any action that compromises the quality or safety of patients, study participants, or the public; violation of patient or study participant confidentiality; institutional review board (IRB) violations; forgery, alteration, or misuse of any university document, record, or instrument of identification; disorderly, lewd or indecent conduct; disrespectful communications in all forms including verbal, written, and email; failure to be accountable or take responsibility for one’s actions; and any other conduct unbefitting a professional public health practitioner, researcher, or educator.

3. Alcohol and Drug Use

Excessive alcohol and/or drug use compromises the student’s ability to learn and to practice as a public health professional and thus is considered unprofessional conduct. Students who misuse alcohol and/or drugs should seek assistance from services available on campus or elsewhere. The sale of drugs or the possession of narcotics (unless prescribed by a medical doctor) is against the law. To minimize the potential for excessive alcohol use at campus functions, students must adhere to current University policy governing the consumption of alcohol on campus.

4. Respect for the Rights and Property of Others

Students should always conduct themselves in a manner that recognizes the rights and property of others. Examples of prohibited behavior include: theft, damage to University or personal property of others, disruption of educational or other activities on campus, illegal use of University facilities, sexual harassment, physical assault, violation of academic honesty standards in a way that affects other
students or faculty, such as in a group or collaborative project, and any conduct that threatens the health or safety of others.

5. Adhere to all state and local public health and safety orders and campus public health and safety policies.

Students are responsible for knowing and following all health and safety orders and policies. Examples include the wearing of face coverings, guidelines for social gatherings and events, quarantines, isolation, orders to shelter in place, and any other public health and safety orders and policies.

Any student found to have committed acts of misconduct (including, but not limited to cheating, plagiarism, misconduct of research, breach of confidentiality, or illegal or unlawful acts) will be subject to the procedures outlined in the Honor Code.

Additional information regarding the ColoradoSPH Honor Code can be found online at:

https://coloradosph.cuanschutz.edu/education/calendars-policies

Academic Grievance Policy

The Colorado School of Public Health recognizes that a student may have grievances about different aspects of his or her academic program. ColoradoSPH is committed to addressing these grievances promptly and professionally and reaching a fair resolution through a formal and unbiased process. In the statements below, Associate Dean refers to the ColoradoSPH Associate Dean for Academic Affairs.

Student Rights

All ColoradoSPH students have the right to:

1. Competent instruction
2. Access to instructors outside of class during a specified set of office hours or by appointment
3. Clearly understand the grading system by which he or she will be judged, and expect that the grading system as determined by the instructor will be adhered to for the duration of the course
4. Be treated with respect and equality
5. Be treated fairly according to standards stated within the student handbook and each course syllabus

Formal Grievance Process

Step 1

Because the filing of an Academic Grievance is considered a serious matter, the student is strongly encouraged to seek informal resolution first by discussing the matter with the faculty member or administrator involved. The student and faculty/administrator should document the date, time, and outcome of the meeting for future reference. If the student feels he or she needs assistance in discussing or resolving the issue, a University of Colorado Denver Ombuds person is available to help students facilitate a resolution related to any type of grievance. That office can be reached at 303.724.2950. Additional information about the Ombuds Office can be found on their website:

https://www1.ucdenver.edu/offices/ombudsoffice
Step 2
The student should contact the Chair of the Department to which the faculty member belongs. The Chair and the student will work together to resolve the grievance informally. At their election, the Associate Dean may be asked to facilitate these conversations. The student might seek guidance from the Associate Dean in this step. The Associate Dean will act as a mediator between the student and faculty member to help resolve any miscommunications between the parties.

Step 3
If an informal resolution cannot be reached, the Associate Dean will meet with the student to determine if the grievance is one that can be legitimately pursued through the official grievance process.

Step 4
If the Associate Dean and the student agree to move forward, the Hearing Committee must be constituted within 30 days of indication from the student or the chair that the grievance cannot be resolved at the department level.

Step 5
A report will be prepared by the Associate Dean to include a personal statement from the individual filing the grievance or appeal outlining the grievance or appeal, the date(s) of the alleged incident, and all supporting documentation and evidence. This report will be sent to the faculty member with whom the grievance has occurred.

Step 6
Hearing Committee members shall be contacted to schedule a hearing. All committee members shall commit to being present on the agreed date and time.

Step 7
One week in advance of the hearing, all Hearing Committee members will be informed in writing of the hearing committee composition, the Associate Dean’s written report, any other evidence and testimony to be presented, and the resolutions each party believes to be acceptable.

Step 8
On the date of the hearing, the Hearing Committee will privately and separately interview each party. At that time, any additional information, documentation and testimony regarding the grievance can be introduced. All testimony will be audio recorded for accuracy. The recording will be destroyed at resolution of the grievance.

The Associate Dean, or his/her designee, shall be present at the hearing. The Associate Dean will not have voting power, but will oversee the hearing to ensure procedures are followed, proceedings are conducted with respect for all parties, and that all parties are satisfied that their testimony was presented.

Step 9
All testimony and documentation will be strictly confidential. This confidentiality will be waived only if the grievance hearing results in legal action to the extent that grievance testimony and documentation
need to be available to the court. All parties shall be advised that no hearing participant should use any information from the hearing in any way to affect future interactions among the parties.

**Step 10**
The Hearing Committee will send a formal written recommendation to the Associate Dean of the ColoradoSPH within five (5) working days. The Associate Dean will make a formal recommendation to the Dean based on all of the evidence and testimony within five (5) working days of receipt of the Hearing Committee’s recommendation.

**Step 11**
All parties will consider the Dean’s decision final and binding.

**Step 12**
Upon acceptance of the formal decision by the Dean, the Associate Dean will be notified and will inform all relevant parties of the decision. It is the intent of the Colorado School of Public Health that all individuals associated with the ColoradoSPH have the right to bring grievances to the appropriate School officials and that they be granted full opportunity to be heard, treated with respect, and due process as they seek redress of their grievances. The full Academic Grievance policy can be found online at:

https://coloradosph.cuanschutz.edu/education/calendars-policies

**Non-Discrimination Policy Statement**
The University of Colorado, including the Colorado School of Public Health, will not discriminate against any applicant, student or employee because of race, color, religion, sex, national origin, age, disability, creed, sexual orientation, or veteran status. The University of Colorado and the Colorado School of Public Health will take affirmative action to ensure that applicants, students and employees are treated without regard to their race, color, religion, sex, national origin, age, disability, creed, sexual orientation, or veteran status. The University of Colorado Non-Discrimination Policy can be found at:

https://www.cu.edu/regents/Policies/Policy10A.htm

**Sexual Misconduct Policy Statement**
It is the policy of ColoradoSPH to maintain the community as a place of work, study, and residence free of sexual harassment or exploitation of students, faculty, staff or administrators. All forms of sexual misconduct, including sexual harassment, are prohibited on campus and in any of the School’s programs. ColoradoSPH is committed to taking appropriate action against any member of the University community who violates the policy. No retaliation will be taken against any individual for making a legitimate complaint. It is a violation of the ColoradoSPH policy to knowingly make a false accusation. For more information, please refer to the Title IX overview:

equity.ucdenver.edu

**Policy on Pregnancy and Parenting**
The Colorado School of Public Health does not discriminate against any student on the basis of pregnancy, parenting status, or related conditions. Absences due to medical conditions relating to pregnancy will be excused for as long as deemed medically necessary by the student’s doctor and the
student will be given the opportunity, wherever possible, to make up missed work. Students needing assistance can seek accommodations from the Disability Services Offices (Sherry Holden, sherry.holden@ucdenver.edu) or the Title IX Coordinator for ColoradoSPH (Chloe Bennion, chloe.bennion@cuanschutz.edu)

Email Policy
Email is an official means of communication for ColoradoSPH students. All official email related to enrollment at ColoradoSPH (including, but not limited to, financial aid, billing, transcripts, school announcements.) will be sent to each student's assigned CU email address (name@cunanschutz.edu), regardless of the student's home campus. Students are responsible for checking their CU email on a regular basis. The student Academic Honor and Conduct Code should be followed when using university email and other forms of university electronic communication and devices.

Students with a home campus of CSU or UNC should also frequently check their home campus email accounts, as any correspondence specifically from their home campus will be sent to that email address.

For questions regarding your CU email account, please contact the Anschutz Medical campus OIT Department at (303) 724-HELP or visit their website at:

https://4help.oit.ucdenver.edu/CherwellPortal/IT#0

Identification/Access Badges
Students are required to have an electronic security photo ID badge for the safety and protection of all faculty, staff, and students on campus. Additionally, this badge allows students access to buildings and computer labs after hours, as well as parking surfaces.

Badge applications for the CU Anschutz Medical Campus are prior to the start of a student's first semester in the program. Students should pick up their badges at one of the badging pickup days or make alternate arrangements with the Office of Academic and Student Affairs.

Students with a home campus of CSU or UNC should contact their campus education staff to inquire about ID badges on those campuses.

Establishing Residency
The requirements for establishing residency for tuition purposes are defined by Colorado law. The statutes require that a qualified individual must be domiciled in Colorado for the twelve (12) consecutive months immediately preceding the term for which resident status is claimed.

A person's tuition classification status is initially determined from the Verification of Residency form submitted during the application process for admission. If a person is classified as a “nonresident,” he or she must wait until eligible for a change in tuition classification and then file a petition for the change. Petitions that are denied may be appealed.

For more information regarding establishing residency, please visit:

CU Anschutz Medical Campus Registrar’s website:
Tuition and Fees
ColoradoSPH students receive a single bill for tuition and fees from the CU Anschutz Medical Campus Bursar's Office, regardless of their home campus affiliation. All students are charged the university matriculation fee, background check fee, and enrollment deposit (if applicable). Fees associated with the student's primary campus are also assessed. There are not additional general fees for taking courses outside of the primary campus, but course-specific fees may still apply. All students, regardless of their home campus, must follow university payment policies and deadlines. Additional information regarding fee and billing policies can be found on the bursar's website at:

https://www.ucdenver.edu/anschutz/studentresources/Registrar/StudentServices/Residency/Pages/Residency.aspx

A breakdown of tuition and fees per campus can be found on the ColoradoSPH website:

https://coloradosph.cuanschutz.edu/admissions/tuition-aid/cost-of-attendance

Students must follow the published drop/add deadlines in order to receive a tuition refund for any dropped courses. For dropped courses processed before the semester's drop/add deadline, full tuition and fees will be refunded. **Courses dropped after the semester’s drop/add deadline will be considered withdrawals, and will not be refunded tuition and fees.** For more information on dropping or withdrawing from a course, see “Registration Policies” on page 19.

Appeals for tuition refunds after the drop/add deadline will follow the policy outlined on the Tuition Appeals Form on the ColoradoSPH website:

https://coloradosph.cuanschutz.edu/resources/for-current-students/academic-forms

The Academic Calendar, which specifies deadlines, including the drop/add deadline, can be found on the ColoradoSPH website:

https://coloradosph.cuanschutz.edu/education/calendars-policies

For students who have been approved to take a course(s) at the downtown UCD campus, the ColoradoSPH tuition rate will be charged for those courses, unless the student is enrolled in a dual degree program with the downtown campus. The ColoradoSPH tuition rate may be different than the downtown UCD campus rate.

Employee Tuition Benefit
Employees of the University of Colorado and their dependents may be eligible for up to nine credit hours per year to be used towards courses on a space-available basis. When using the tuition benefit, registration can only occur on the first day of classes in order for tuition to be waived. Students who violate this policy are at risk of losing their tuition benefit. For the entire policy, restrictions and forms, please visit the Payroll and Benefit Services website:

https://www.cu.edu/pbs/tuition-benefit/
Employees on the CSU and UNC campuses using their employee tuition benefits may transfer in a maximum of 20 credits of approved public health coursework taken at a ColoradoSPH partner institution during the time of employment. Of these 20, a maximum of 10 non-degree credits are allowed prior to program matriculation. *Please note that CU Denver/Anschutz Medical Campus waivers may only be applied to courses at CU Denver/Anschutz Medical Campus. ColoradoSPH's CU Denver students cannot use waivers for CSU and UNC courses. (Employees at CSU and UNC have their own system for tuition waivers.)*

**Financial Aid**
All financial aid, regardless of a student's home campus, is processed through the CU Anschutz Medical Campus Financial Aid Office. All ColoradoSPH students interested in applying for financial aid should do so through the CU Anschutz Medical Campus. Detailed information can be found at:

https://online.cu.edu/tuition

For financial aid purposes, full-time status is considered five credits per term; part-time is considered 3 credits per term.

**Advisors**
The program director will serve as an advisor to each student upon entry into the program. This is not a permanent assignment. Students may request to change advisors and often do so when putting together their examination committees. The faculty member selected to supervise the thesis, research paper or dissertation automatically becomes the student's academic advisor/mentor as well. Students should meet with their advisor/mentor at least once per semester before starting work on a thesis/dissertation and should keep their advisor/mentor and the program director informed of study plans. Meetings with the advisor/mentor should occur at least weekly once work on the thesis/dissertation begins.

**Grading Policy**
The program adheres to the Graduate School grading policies as outlined in the Graduate School Handbook. In addition, the program has the following grading policies:

1. All coursework must be completed on time. A student may be assigned an “I” (incomplete) grade, with advance agreement from the instructor, which will convert to an F grade after one year, if the coursework has not been completed.

2. MS Thesis, MS Research Paper, and Dissertation credits are assigned the grade IP until the final written paper is complete. At that time, a letter grade will be assigned retroactively.

3. In order to maintain satisfactory academic progress, advance to candidacy, and earn a graduate degree, students are required to maintain at least a “B” (3.00) average in all course work attempted while enrolled in the Graduate School. Courses in which grades below “B-” (2.7) are received are not accepted for any MS or PhD degree. Students that receive such grades may repeat that course once within 24 months with the approval of the graduate program. All grades received will appear on the student’s transcript and will be included in the GPA calculation. If the course is a prerequisite for other courses, the student must obtain special
permission from the instructor to enroll in an advanced course in the sequence before retaking the prerequisite.

**Leave of Absence Policy**
Leaves of absence are arranged with and approved by the program director with the request, then forwarded to the Graduate School for final approval. A leave of absence may be approved for a maximum of one year. Students who fail to register or submit a Statement of Academic Intent after an absence of one academic year will be required to reapply for admission to the Graduate School through their program and be considered with all other applicants. A leave of absence does not extend the time limit set forth for graduation.

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**Academic Information**

**Academic Calendar**
Please visit the website for the current academic calendar:
https://coloradosph.cuanschutz.edu/education/calendars-policies

**ColoradoSPH Course Book**
The ColoradoSPH Course Book, which provides descriptions of all approved courses at all three campuses, is available at:
https://coloradosph.cuanschutz.edu/education/courses-and-registration

**Registration**
Course offerings, course book, academic calendar and registration dates are available on the website:

https://coloradosph.cuanschutz.edu/education/courses-and-registration

All students of the Colorado School of Public Health register for courses through UCD Access. Students must have a CU email address to access the registration system.

https://portal.prod.cu.edu/UCDAccessFedAuthLogin.html

Students enrolling for the first time must meet with the program director prior to fall semester for annual academic advising before they can utilize web based registration.

**Dropping & Adding a Course**
The drop/add period extends two weeks after the first day of the fall and spring semesters and one week after the start of the summer semester. To drop or add a class during the drop/add period, please log onto the registration portal – UCD Access – at:

https://portal.cusys.edu/UCDAccessFedAuthLogin.html

Dropping courses after the drop/add deadlines will result in 0% tuition and fee reimbursement and a corresponding grade of “W” (withdrawal) will be reflected on the transcript.
Permission to register or drop a course after the add/drop period will be granted only in extenuating circumstances and requires the approval of the Assistant Dean of the Graduate School.

The drop/add deadlines can be found on the Academic Calendar at:

https://coloradosph.cuanschutz.edu/education/calendars-policies

**Course Withdrawal Policy & Timeframe**

If a student wishes to withdraw from the university, they should obtain a withdrawal form from the CU Anschutz Medical Campus Registrar’s office or website:

https://www.ucdenver.edu/registrar/student-resources/forms

Withdrawal from a course is a formal discontinuation of the course after the drop/add period, and results in a grade of “W” on the student’s official transcript. If attendance in a current course is discontinued without an official withdrawal, the student’s transcript will reflect the grade earned for that course. **Withdrawals from courses are not eligible for tuition reimbursements.**

- 100% reimbursement will be granted if a course is dropped before classes begin or during the drop/add period (see ColoradoSPH Academic Calendar for semester deadlines)
- There will be no reimbursement for withdrawal after the drop/add period and a grade of “W” (withdrawal) will be reflected on the transcript.

**Auditing Courses**

The CU Anschutz Medical Campus does not allow auditing of courses. Students may register for a course for “No Credit,” but must pay the full tuition and fees. Students must designate “No Credit” by the appropriate deadlines as set forth by the Registrar’s Office. No Credit forms are available from the CU Anschutz Medical Campus Registrar’s Office:

https://www.ucdenver.edu/registrar/student-resources/forms

**Registering for Courses on Other CU Campuses**

ColoradoSPH students are able to register for UC Denver (downtown) campus courses with the UCD Access registration system, given that any prerequisite requirements are met. Registration can only be conducted during the drop/add period at the host (downtown) campus. The ColoradoSPH tuition rate will be assessed for any courses taken downtown, unless the student is enrolled in a dual degree program with the downtown campus. If the student wishes to apply a course taken at UCD downtown toward MPH program requirements, he or she must secure faculty advisor approval prior to taking the course. See “Electives outside ColoradoSPH” below.

Students who would like to enroll for a course on the Boulder or Colorado Springs campuses do not register on UCD Access. Instead, they must complete the Intercampus Registration Form found on the UCDenver Campus Registrar’s Office at:

https://www.ucdenver.edu/registrar/student-resources/forms
Approval from both the host and home campuses is required. After all signatures have been obtained, the completed form should be returned to the CU Anschutz Medical Campus Registrar’s Office for processing. Students must be registered for at least one course on their home campus in order to add a concurrent class on either the Boulder or Colorado Springs campuses.

**Incomplete Coursework**

In the case that a student cannot complete a course during the regular semester, the student may request an “incomplete” grade in the course, which will enable the student to complete the course during the following semester. Requests should be made using the “Request for a grade of incomplete” form, which can be found on the “Forms” page:

https://coloradosph.cuanschutz.edu/resources/for-current-students/academic-forms

Students who have been approved for an “incomplete” and need to continue the course should **not** re-register for the course on UCD Access or duplicate tuition will be charged. If an ‘incomplete” grade has been approved and continued access to online materials (i.e., Canvas) is needed, please contact the Office of Student Affairs. **Students should not re-register for the course.**

Students have one year to finalize incomplete coursework and solidify their grade. If the coursework is not completed in that timeframe, a grade of “F” will automatically be applied to the student’s transcript.

**Transfer Credits**

Graduate School rules allow students to transfer up to 12 semester credits towards a MS degree and 30 semester hours toward the PhD degree for courses taken either at another university or as a non-degree student at UCD. Courses taken at any CU campus by students enrolled in a program are not considered transfer credits.

Transfer of credit from other universities must meet the following criteria:

1. The course must be graduate level, i.e., offered within the degree program at the 5000-level or above.
2. If offered outside the degree program, (including transfer credits), are 5000-equivalent level or higher and are approved for a specific degree plan by the program.
3. The grade must be at least a B- for MS students and at least a B for PhD students.
4. The student must have at least a 3.0 GPA in our program after at least one semester in the program.
5. The work must have been completed within the past seven years or validated by a Program Director to ensure that the content has not significantly changed since the courses were taken.
6. The student must submit an outline and/or syllabus from the course to a program director for content review.
7. The request for transfer must be made on a form obtained from the Graduate School. The form must be completed by the student, endorsed by the advisor and the program director, and sent to the Graduate School along with an official transcript showing the course.
Waiving Courses
If a student believes that he/she has covered the content of a required course in previous course work, he/she may request to waive the course. To waive a course, the student consults the instructor teaching the course, bringing evidence of his/her previous work in the subject. With approval from the Instructor, Program Director, and Associate Dean for Academic Affairs, the student can substitute the course requirement with an equivalent number of hours in an elective course or independent study.

Foundational Public Health Knowledge Requirement
It is a requirement of the school’s accreditation that all ColoradoSPH MS and PhD students are grounded in foundational public health knowledge. This is a curriculum requirement of the MS program, and a prerequisite to the PhD program. To satisfy this requirement, all MS and PhD students must complete the following courses:

- Foundations in Public Health (PUBH6600- 2 credits)
- Public Health Concepts for Non-MPH (EHOH 6601- 1 credit)
- Epidemiology (EPID 6630- 3 credits)

Students with a prior MPH degree or a graduate-level degree from a CEPH-accredited institution are eligible to waive this requirement.

Epidemiology MS students who are approved to waive this requirement must replace the associated waived credits with an equal number of alternative elective credits.

Degree Plans

Coursework Requirements
Students who have had some of the required (or equivalent) courses prior to admission into the program may be allowed to substitute credit hours using those courses. The following tables list the credit hours required to complete the MS and PhD in Epidemiology.

MS Requirements
Coursework Prerequisites
Students are required to have taken two semesters of calculus (calc I & II) and have taken courses in upper division (3000/4000 level) biological sciences. Students should have a baccalaureate degree in a scientific field from an accredited college or university or completion of work equivalent to the baccalaureate or master's degree in a scientific field given at University of Colorado. Minimum undergraduate GPA of at least 3.0 on a 4 point scale.
### Course Requirements

<table>
<thead>
<tr>
<th>Core Epidemiology Coursework</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>12 total</td>
</tr>
<tr>
<td>EPID 6626 (Research Methods)</td>
<td>3</td>
</tr>
<tr>
<td>EPID 6630 (Epidemiology)</td>
<td>3</td>
</tr>
<tr>
<td>EPID 6631 (Analytical Epidemiology)</td>
<td>3</td>
</tr>
<tr>
<td>EPID 7631 (Advanced Epidemiology)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic-Based Epidemiology Coursework</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>7 total</td>
</tr>
<tr>
<td>EPID 6635 (Epidemiology of Communicable Diseases)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6622 (Cancer Prevention and Control)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6624 (Public Health Surveillance)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6629 (Clinical Epidemiology)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6634 (Applied Global Health Epidemiology)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6635 (Communicable Disease Epidemiology)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6636 (Chronic Disease Epidemiology)</td>
<td>3</td>
</tr>
<tr>
<td>EPID 6637 (Injury Epidemiology and Control)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6638 (Global Cardiovascular Epidemiology)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6640 (Investigation of Disease Outbreaks)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6641 (Epidemiology of Foodborne and Diarrheal Diseases)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6642 (Genetics in Public Health)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6643 (Epidemiology and Prevention of TB/HIV/STDs)</td>
<td>2</td>
</tr>
<tr>
<td>EPID 6644 (Maternal Child Health Epidemiology)</td>
<td>3</td>
</tr>
<tr>
<td>EPID 6646 (Introductions to Systematic Reviews)</td>
<td>1</td>
</tr>
<tr>
<td>EPID 7605 (Research Methods with Secondary Data Sources)</td>
<td>3</td>
</tr>
<tr>
<td>EPID 7615 (Pharmacoepidemiology)</td>
<td>2-4</td>
</tr>
<tr>
<td>EPID 7640 (Genetic Epidemiology)</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Core Biostatistics Coursework</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>9 total</td>
</tr>
<tr>
<td>BIOS 6611 (Biostatistical Methods I)</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 6612 (Biostatistical Methods II)</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 6680 (SAS Database Design and Management)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Public Health Coursework</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>3 Total</td>
</tr>
<tr>
<td>PUBH 6600 (Foundations in Public Health)</td>
<td>2</td>
</tr>
<tr>
<td>EHOH 6601 (Public Health Concepts for Non-MPH)</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Coursework</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>3 Total</td>
</tr>
<tr>
<td>CLSC 7151 (Ethics in Research)</td>
<td>1</td>
</tr>
<tr>
<td>Electives*</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thesis/ Research Paper</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPID 6651/EPID 6950</td>
<td>4 Total</td>
</tr>
</tbody>
</table>

| Total Semester Credit Hours | 38 |

*All ColoradoSPH courses are potential electives. Contact your program director if you have a question about a specific course.

### MS Example Sequence

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>BIOS 6611 (Biostatistical Methods I) (3)</td>
</tr>
<tr>
<td>EPID 6630 (Introduction to Epidemiology) (3)</td>
</tr>
<tr>
<td>EHOH 6601 (Public Health Concepts for Non-MPH) (1)</td>
</tr>
<tr>
<td>Year 2</td>
</tr>
<tr>
<td>-------</td>
</tr>
</tbody>
</table>
| Spring | BIOS 6680 (SAS Database Design and Management) (3) | BIOS 6612 (Biostatistical Methods II) (3)  
         | EPID 6631 (Analytic Epidemiology) (3)  
         | PUBH 6600 (Foundations of Public Health) (2) |
| Fall   | EPID 6626 (Research Methods in Epidemiology) (3) | EPID 6644 (Maternal and Child Health Epidemiology) (3)  
         | EPID 7631 (Advanced Epidemiology 1) (3)  
         | Elective (2) |
| Spring | CLSC 7150 (Ethics and Responsible Conduct of Research) (1) | EPID 6637 (Injury & Violence Epidemiology and Prevention) (2)  
         | EPID 6635 (Infectious Disease Epidemiology) (2) |
| Year 3 | Summer/Fall | EPID 6651 OR EPID 6950 (Thesis/Research Paper) (4)  
         | Final Comprehensive Exam |
PhD Requirements

Coursework Prerequisites
Students are required to have taken two semesters of calculus, upper level statistics or biostatistics at the undergraduate or graduate level and upper level undergraduate or graduate level coursework in the sciences prior to entrance in the program. Students without sufficient epidemiology, public health or biological training may be accepted into the program contingent upon the completion of specified course. It is a requirement of the school’s accreditation that PhD students are grounded in foundational public health knowledge. To satisfy this requirement, all PhD students must complete the following courses:

- Foundations in Public Health (PUBH6600- 2 credits)
- Public Health Concepts for Non-MPH (EHOH 6601- 1 credit)
- Epidemiology (EPID 6630- 3 credits)

Students with a prior MPH degree or a graduate-level degree from a CEPH-accredited institution are eligible to waive this requirement. Documentation of broad public health background is required. See “Foundational Public health Knowledge Requirement” in this handbook.

The following table lists the credit hours required to complete the PhD program. If the above described pre-requisites are not met, they will need to be completed in addition to the required coursework for the PhD.

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Epidemiology Coursework</td>
<td>6 total</td>
</tr>
<tr>
<td>EPID 7631 (Advanced Epidemiology 1)</td>
<td>3</td>
</tr>
<tr>
<td>EPID 7632 (Advanced Epidemiology 2)</td>
<td>3</td>
</tr>
<tr>
<td>Core Biostatistics Coursework</td>
<td>6 total</td>
</tr>
<tr>
<td>BIOS 6611 (Biostatistical Methods I)</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 6612 (Biostatistical Methods II)</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods Coursework</td>
<td>13 total</td>
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<tr>
<td>EPID 7605 (Research Methods with Secondary Datasets)</td>
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</tr>
<tr>
<td>EPID 7911 (Field Methods)</td>
<td>3</td>
</tr>
<tr>
<td>EPID 7912 (Research Grant)</td>
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<tr>
<td>Analytic Methods in Epidemiology*</td>
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<tr>
<td>Additional Coursework</td>
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<tr>
<td>CLSC 7151 (Research Ethics)</td>
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<tr>
<td>Biomedical Sciences**</td>
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<tr>
<td>Electives</td>
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<tr>
<td>Dissertation</td>
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<td>EPID 8990</td>
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<tr>
<td>Total Semester Credit Hours</td>
<td>68</td>
</tr>
</tbody>
</table>

*A minimum of 4 credits of advanced analytic coursework in biostatistics or epidemiologic methods from the ColoradoSPH

**A minimum of 6 credits of basic science coursework at the graduate level related to the student’s thesis topic.
# PhD Example Sequence

<table>
<thead>
<tr>
<th>Year 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>BIOS 6611 (Biostatistical Methods I) (3)</td>
</tr>
<tr>
<td></td>
<td>EPID 7631 (Advanced Epidemiology 1) (3)</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>BIOS 6612 (Biostatistical Methods II) (3)</td>
</tr>
<tr>
<td></td>
<td>EPID 7605 (Research Methods in with Secondary Data Sets) (3)</td>
</tr>
<tr>
<td></td>
<td>EPID 7632 (Advanced Epidemiology 2) (3)</td>
</tr>
<tr>
<td></td>
<td>Preliminary Examination</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>EPID 7911 (Epidemiologic Field Methods)</td>
</tr>
<tr>
<td></td>
<td>Analytic Methods in Epidemiology</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td>CLSC 7150 (Ethics and Responsible Conduct of Research) (1)</td>
</tr>
<tr>
<td></td>
<td>EPID 7912 (Research Grant) (3)</td>
</tr>
<tr>
<td></td>
<td>Analytic Methods in Epidemiology</td>
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Electives
Students may take elective course work at the Colorado School of Public Health and in other departments and campuses of the University of Colorado. Students should receive approval from their academic advisor and program director as to the appropriateness of courses for elective credit.

Epidemiology Discussion Group
Epidemiology Discussion Groups (EDG) are presentations given by faculty, and students in the MS and PhD program. Attendance is required for MS and PhD students in Epidemiology. Students in year 2 and above are required to present once every academic year. Students are encouraged to present on one aspect of their current doctoral or masters research. If a student does not have a thesis project, then the topic could be a current project (7911) or a complex epidemiology topic. The encouraged structure is a 30-45 minute description the project, background literature, methodological approaches, and findings. The remaining time is spent discussing the methodological issues posed by the student. The student must work with their advisor or another faculty member to plan and facilitate the EDG; the student should verify that the faculty member can attend the planned date before signing up for a specific date. One week before the scheduled EDG, the student will distribute a title and one paragraph abstract.

MS Thesis or Research Proposal
After completing the first year of coursework, students should assemble a thesis or research paper committee. The committee should have at least three members and the majority of the members, including the chair, must be from the Epidemiology core-training faculty (see below). The primary mentor and committee chair must be tenured or tenure-track Full, Associate, or Assistant professors who hold doctoral degrees (PhD, DPhil, EdD, or PsyD). If the student wishes for a full, associate, or assistant professor with a professional or clinical degree to serve as a mentor or chair, it is their responsibility to petition the Graduate School for special permission. The student should arrange committee meetings at least twice a year to discuss progress and a timeline for completing the thesis or research paper, and should meet with their mentor/chair more often. First, a proposal is developed based on the NIH format, outlining the background, significance, and specific aims for the proposed research. In addition, a detailed methods section should be developed to demonstrate understanding of study design issues and the analytic approach along with any preliminary findings. The student then gives a presentation of the proposal to the committee (this is not a formal Graduate School exam). When the committee approves the proposal, the members of the committee sign the proposal acceptance form. The acceptance form is forwarded to the academic affairs specialist and placed in the student's file.

Note: Students must receive approval of their committee from the Program Director at least 3 months prior to scheduling their defense. Please see the Epidemiology Core Program Faculty policy at the end of this handbook.

Application for Admission to Candidacy
Students must complete the application for admission to candidacy for the MS degree. The student obtains signatures from the Advisor of the MS committee. The student then forwards the form to the Program Director for verification of the courses listed that are to be applied towards the degree and
signature. The student then submits the form to the Academic Affairs Specialist at least two weeks in advance, and by the Graduate School deadline for that term, whichever is earlier, before scheduling the final exam. Once all signatures have been obtained the Academic Affairs Specialist will submit the form to the Graduate School at least two weeks prior to the exam or by the Graduate School deadline for that term, whichever is earlier. The required form can be obtained from the Graduate School website:

https://graduateschool.ucdenver.edu/forms-resources/resources

In addition to the Application for Admission to Candidacy, students must also submit an application for graduation through the UCD Access student portal before the posted deadline for the graduation semester.

**MS Degree Final Examination**

All candidates for the MS degree are required to take a final examination after all other requirements for the degree have been completed and approval for graduation has been granted. The final examination is a presentation and defense of the thesis or research paper, as well as questions from the committee. The research paper or thesis must be submitted to and approved by the examining committee before scheduling the final examination. Students must submit the Exam Request form. Students must also obtain the Program Director’s signature on the form. Students then submit the form to the Academic Affairs Specialist at least two weeks before the exam date. The Academic Affairs Specialist will submit the form to the Graduate School at least two weeks prior to the exam. The Exam Request form can be found on the Graduate School website:

https://graduateschool.ucdenver.edu/forms-resources/resources

All Graduate School guidelines and specifications must be followed.

**Final Comprehensive Examination/Defense**

The examination committee will conduct the final examination orally. The defense consists of a seminar of 40-50 minutes, is generally open to the public unless otherwise specified, and is followed by an oral examination by the committee. All members of the committee must be present for the examination. One member, but not the chairperson or the student, may participate by interactive video. Below is a list of the possible outcomes:

- **Pass** – You must receive the affirmative votes of the majority of the members of your committee in order to pass.

- **Pass with conditions** – The committee may feel that although you have passed the examination you should complete additional work on the thesis. These conditions will be specified and must be satisfied within 60 days of the defense. Failure to satisfy these conditions will result in failure of the examination.

- **Fail** – If you fail the examination, per Graduate School rules you may be subject to immediate dismissal from the program. At the program’s discretion, you may be allowed to retake the examination once. The retake will be in a format designated by the committee and must be completed by the end of the next academic semester, excluding the summer term. It is
important to note that students will be required to meet registration and enrollment requirements for the semester in which they re-take the examination.

A MS thesis is submitted to the Graduate School according to their format. A MS research paper is submitted to a journal. Consult the Graduate School graduation deadlines calendar for the dates of submission.

**Graduation**

Students must apply for a diploma for their intended semester of graduation by submitting an "Intent to Graduate" form through the UCD Access student portal by the specified deadline for the graduation term.

**Ceremonies**

A campus-wide commencement ceremony is held once a year in May on the CU Anschutz Medical Campus. In addition, the Graduate School and ColoradoSPH offer separate convocation ceremonies for their graduates. All graduates for that academic year, or the previous August or December, are invited to attend the campus-wide, Graduate School, and ColoradoSPH convocation ceremonies. The graduation ceremony and Graduate School graduation ceremonies are usually held on the last Thursday and Friday in May, respectively.

Official regalia must be worn to participate in these ceremonies. Additional details will be posted on the website and emailed to students prior to the event.

**Time Limit**

MS students have five (5) years to complete all degree requirements, including the filing of the thesis or submitting the research paper, for the degree. Students who fail to complete the degree requirements within the five-year time period are subject to termination from the Graduate School upon recommendation from the program director and concurrence of the Assistant Dean of the Graduate School. Requests for extension will be considered under extenuating circumstances only.

**Departmental Copy of Thesis or Research Paper**

The program requests that a professionally bound or electronic copy of the thesis or research paper be provided to the department.

**PhD Program Guidelines**

**Electives**

Students may take elective course work at the Colorado School of Public Health and in other departments and campuses of the University of Colorado. Students should receive approval from their academic advisor and program director as to the appropriateness of courses for elective credit.

**Field Methods Project(s)**

This course is intended to give PhD students the opportunity to work closely with faculty on current epidemiologic projects to develop skills in the operational aspects of field research. Such skills include
proposal writing, budget development, staff hiring and training, protocol and instrument development and implementation, quality control procedures, data collection and management, community liaison and report writing. The project may be for one or more semesters. Students will register for 1, 2, or 3 credits with a total of 3 credits required for the PhD degree. Registration need not be continuous. Once you have completed a project with one faculty member, the program encourages students to work with a different faculty member on the next project. It is the student’s responsibility to establish an educational contract for specific learning objectives and products for the project with the faculty mentor in consultation with the Epidemiology Program director before registering for course credits. The student will carry out the project in collaboration with the project mentor and the mentor will assign the course grade.

Please note: It is not possible to receive course credit and money for the same project. Thus, persons employed on a project have to use their own time, and conduct a project they would not otherwise complete for their employer.

Preliminary Examination
Acceptance of a graduate student into a program of study leading to the doctoral degree is not implied by admission to the Graduate School, but occurs upon successful completion of the preliminary examination. Students must take a written preliminary examination at the end of Year 1 in the program. The exam covers material from EPID 7605, 6630, 7631, 7632, and BIOS 6611 and 6612. Any deviation from this has to be approved by the program director. This examination must be passed for the student to continue in the program. Students who do not pass the exam (or a section thereof) are required to retake the exam (or section) the next time the exam is offered. The exam may be retaken once and is generally given each year in June.

Teaching Requirement
All epidemiology PhD students are required to be a teaching assistant (TA) for at least one core epidemiology program course within the ColoradoSPH to meet the requirements of the degree program. Students must receive approval from the program director before arranging the teaching assistantship. Once that approval has been obtained, students are expected to contact the instructor for the course they would like to TA. It is the student's responsibility to arrange the teaching assistantship.

Biomedical Science Requirement
All doctoral students will be expected to develop knowledge of at least one field of human biology or medicine. Such fields include, but are not limited to: human genetics, biophysics, medical physiology, clinical pathology, anatomy, human ecology, and health demography. These courses can be taken at the School of Medicine, School of Pharmacy, or in other basic science doctoral programs at CU Denver. Students may also take courses at the Downtown or Boulder campuses to meet the requirement. The purpose of this work is to provide a broader educational experience and to help prepare students for the comprehensive examination. The work is intended to help the student develop the ability to formulate cogent research questions, and to communicate and interpret quantitative results to health professionals. Examples of biomedical science electives can be found at the end of the handbook.
Epidemiology Discussion Group

Epidemiology Discussion Groups (EDG) are presentations given by faculty and students in the MS and PhD programs. Attendance is required for MS and PhD students in Epidemiology. Students in year 2 and above are required to present once every academic year. Students are encouraged to present on one aspect of their current doctoral or masters research. If a student does not have a thesis project, then the topic could be a current project (7911) or a complex epidemiology topic.

The encouraged structure is a 30-45 minute description of the project, background literature, methodological approaches, and findings. The remaining time is spent discussing the methodological issues posed by the student. The student must work with their advisor or another faculty member to plan and facilitate the EDG; the student should verify that the faculty member can attend the planned date before signing up for a specific date. One week before the scheduled EDG, the student will distribute a title and one paragraph abstract.

Comprehensive Examination and Dissertation Defense Committee

Students select at least five members to serve as an examination committee for the Comprehensive Examination and Dissertation Defense. This committee is required to meet at least twice a year.

Note: Students must receive approval of their committee from the Program Director at least 3 months prior to scheduling the comprehensive examination. All members must have, or be eligible for, a Graduate School faculty appointment. Please see the Epidemiology Core Program Faculty Policy at the end of in this handbook.

For any committee member who does not yet have a Graduate School faculty appointment, the student must forward a copy of the committee member’s current curriculum vitae (CV) to the Academic Affairs Specialist who will process the appointment. The student’s main technical advisor/mentor may not be the Chair of the examining committee. The primary mentor, co-mentor (if applicable) and committee chair must be tenured or tenure-track Full, Associate, or Assistant Professors who hold doctorate degrees (PhD, DPhil, DSc, EdD, or PsyD). In addition, the committee, as a whole, must meet the following minimum criteria:

1. Two members of the committee must be part of the Epidemiology Core Program Faculty. One of these two members will become the Chair of the dissertation committee. The other will serve as the mentor for the project. Both faculty members serve as the student’s academic advisors for the duration of the dissertation project.
2. One member of the committee must be from the Department of Biostatistics and Informatics.
3. One member must be from outside the School. An outside member is defined as a person without a primary faculty appointment at the Colorado School of Public Health. This could include persons with no appointment in the School or with either a clinical or secondary appointment in the School.
4. The remaining slot on the committee can be filled by anyone who meets criteria 1-3 above.

Application for Admission to Candidacy

Students must complete the application for admission to candidacy for the PhD degree. The student obtains signatures from the Advisor and Chair of the PhD committee. The student then forwards the
form to the Program Director for verification of the courses listed that are to be applied towards the degree and signature. The student then submits the form to the Academic Affairs Specialist at least two weeks in advance, and by the Graduate School deadline for that term, whichever is earlier, before scheduling the comprehensive exam. Once the student obtains all signatures the Academic Affairs Specialist will submit the form to the Graduate School at least two weeks prior to the exam or by the Graduate School deadline for that term, whichever is earlier. The required form can be found on the Graduate School website:

https://graduateschool.ucdenver.edu/forms-resources/resources (Application for Candidacy Form)

Scheduling the Comprehensive Exam
The Exam Request form is required to schedule the comprehensive exam. Students must obtain the Program Director’s signature on the form. Students then submit the form to the Academic Affairs Specialist at least two weeks before the exam date. The Academic Affairs Specialist will submit the form to the Graduate School at least two weeks prior to the comprehensive exam date. The Exam Request form can be found on the Graduate School website.

https://graduateschool.ucdenver.edu/forms-resources/resources (Exam request form)

Comprehensive Examination
The Dissertation Committee will administer oral and written comprehensive examinations when a student has chosen a dissertation topic and is ready to initiate the project. The comprehensive exams must be taken no later than the end of the third year, except under extenuating circumstances. The written exam will consist of a literature review and research proposal. The oral examination consists of a presentation and discussion of the student’s dissertation proposal. In addition, the student should demonstrate in-depth knowledge of the biological and methodological issues pertinent to the student’s project. The literature review and dissertation proposal should be submitted in writing to the dissertation committee at least 3-5 weeks before the oral exam. The literature review and proposal should be written in NIH research proposal format outlining the background, significance and specific aims for the proposed research. In addition, a detailed methods section should demonstrate an understanding of study design issues and the analytic approach along with any preliminary findings. NIH page restrictions do not apply. When both the written and oral parts of the comprehensive examination have been passed, and the other Graduate School requirements are complete, students can proceed with their dissertation. The required forms can be obtained from the Graduate School website:

https://graduateschool.ucdenver.edu/forms-resources/resources (Thesis Approval Form)

Below is a list of the possible outcomes for your comprehensive exam:

- **Pass**- you receive the affirmative votes of the majority of the members of your committee in order to pass.

- **Pass with conditions**- the committee may feel that although you have passed the examination you should complete additional work on the thesis. These conditions will be specified and must be satisfied within 4 months of the exam.
Fail: if you fail the examination, per Graduate School rules you may be subject to immediate dismissal from the program. At the program’s discretion, you may be allowed to retake the examination once. The retake will be in a format designated by the committee and must be completed within 12 months. It is important to note that students will be required to meet registration and enrollment requirements for the semester in which they re-take the examination.

Continuous Registration Requirement - Post Comps
Following successful completion of the Graduate School comprehensive exam, students must register for at least 5 dissertation credits, EPID 8990, each semester (excluding the summer semester). If the dissertation defense is during the summer semester, the student must register for 5 dissertation credits for that semester. A maximum of 10 dissertation credits can be taken in any semester, unless approval is received from the Assistant Dean of the Graduate School. Only 10 of the dissertation credits taken prior to the comprehensive examination will count towards the required 30. At least 20 dissertation credits, out of the 30, must be taken after the comprehensive exam.

Note: Once a student has completed 30 dissertation credits, then the student is only required to register for one dissertation credit for fall and spring semester. Summer registration is only required if the student plans to do their examination during summer semester.

Post-Comp Committee Meetings
Students are required to meet with their Dissertation Committee at least twice each year. Students must submit meeting minutes/notes to the academic affairs specialist to be kept in their file.

Dissertation
A dissertation based upon original investigation and showing mature scholarship must be written and approved by your examining committee. Students must register for a total of 30 semester hours of doctoral dissertation credit, with no more than 10 credits taken in any one semester, unless approval is received from the Assistant Dean of the Graduate School.

The written dissertation document must be submitted at least 3 weeks prior to the final examination and formally approved by the dissertation committee before the final examination. All Graduate School guidelines and specifications must be followed as outlined on the Graduate School website:

https://graduateschool.ucdenver.edu/forms-resources/resources (Format Guide for Theses and Dissertations)

The Exam Request form is required to schedule the dissertation defense. Students must obtain the Chair and Program Director’s signatures on the form. Students then submit the form to the Academic Affairs Specialist at least two weeks before the exam date. The Academic Affairs Specialist will submit the form to the Graduate School at least two weeks prior to the dissertation defense date. The Exam Request form can be found on the Graduate School website:
Defense
The examination committee will conduct a final examination of the dissertation and related topics orally. The defense consists of a 40-50 minute seminar, open to the public, followed by an oral examination by the committee. All members of the committee must be present for the examination. One member, but not the chairperson or the student, may participate by interactive video. Below is a list of the possible outcomes for your defense:

- **Pass** – You receive the affirmative votes of the majority of the members of your committee in order to pass.

- **Pass with conditions** – The committee may feel that although you have passed the examination you should complete additional coursework on the thesis. These conditions will be specified and must be satisfied within 60 days of the defense.

- **Fail** – If a student fails the examination, s/he may not continue in the program.

Several forms will be provided to you by the Graduate School for your Defense including the Thesis Approval Form. After you have incorporated any additional edits requested by your committee at your defense, a final version of your dissertation will need to be submitted through Proquest.

A helpful video on how to format and submit your dissertation is provided here.

Graduation
Students must apply for a diploma for their intended semester of graduation by submitting an “Intent to Graduate” form through the UCD Access student portal by the specified graduation term deadline.

Ceremonies
A campus-wide commencement ceremony is held once a year in May on the CU Anschutz Medical Campus. In addition, the Graduate School and ColoradoSPH offer separate convocation ceremonies for their graduates. All graduates for that academic year, or the previous August or December, are invited to attend the campus-wide, Graduate School, and ColoradoSPH convocation ceremonies. The graduation ceremony and Graduate School graduation ceremonies are usually held on the last Thursday and Friday in May, respectively.

Official regalia must be worn to participate in these ceremonies. Additional details will be posted on the website and emailed to students prior to the event.

Time Limit
Students will have **seven (7)** years to complete all requirements, including dissertation, for the degree. Students who fail to complete the degree requirements within the seven-year time period are subject to termination from the Graduate School upon recommendation from the program director and concurrence of the Assistant Dean of the Graduate School. Requests for extension will be considered under extenuating circumstances only.
Departmental Copy of Dissertation
The Program requests that a bound hard copy or electronic copy of the dissertation be provided for the department.

Organization and Content of Courses

Core Courses

EPID 6630 – Epidemiology
This course provides an introduction to descriptive and analytic methods in epidemiology and their application to research, preventative medicine and public health practice.

EPID 6631 – Analytic Epidemiology
This course provides the fundamental analytic skills for assessing and reporting disease status, determinants of disease and their impact on public health. Students learn methods of determining rates of disease occurrence, measures of association between exposures and disease and techniques for identifying and correcting for misclassification, effect modification and confounders. This is skill-building course.

EPID 6626 – Research Methods in Epidemiology
Principals, concepts and methods for conducting ethical, valid and scientifically correct observational studies in epidemiological research are the focus of this class. Lectures and practical experience reinforce hypothesis formulation, study design, data collection and management, analysis and publication strategies.

EPID 7605 – Research Methods with Secondary Datasets
This course covers the principal methods of research design and analysis tailored to the issues commonly encountered using secondary data sources collected for public health surveillance and research (e.g., U.S. Census, vital statistics, NHANES, NHIS, BRFSS, SEER, NACCHO profiles, MEPS, etc.).

EPID 7631 – Advanced Epidemiology 1
Fundamental and analytical tools of epidemiology through lectures, real-world examples and applied exercises using statistical software and demonstration datasets. Focus will be on the application of analytical and statistical approaches to determine causal relationships between exposures and disease.

EPID 7632 – Advanced Epidemiology 2
This is an advanced course on epidemiologic methods designed to improve the student’s ability to conduct and interpret observational epidemiologic studies.

EPID 6651 – MS Research Paper
Masters research paper in Epidemiology is completed under this course.
EPID 6950 – MS Thesis
Epidemiology Master’s thesis work is completed under this course.

EPID 7911 – Epidemiologic Field Methods
PhD students have the opportunity to work with faculty on current epidemiologic projects to develop skills in field research, proposal writing, budget development, staff hiring and training, protocol and instrument development and implementation, and specific methods topics.

EPID 7912 – Developing a Research Grant
Course instructs students on how to prepare high quality, successful, research grant applications. It offers students an opportunity to familiarize themselves with the grant writing and review process, enhance critical thinking skills, formulate a hypothesis and interpret results, and improve the quality of their scientific writing.

EPID 8990 – Doctoral Thesis: Epidemiology
Doctoral thesis work in Epidemiology.

BIOS 6611 – Biostatistical Methods I
This is a first course in applied statistics covering elementary probability, descriptive, parametric and non-parametric methods for one and two sample estimation/testing and some common simple cases of the univariate general linear model. The statistical package SAS used extensively.

BIOS 6612 – Biostatistical Methods II
This is a continuation of BIOS 6611 covering univariate linear modeling and emphasizing multiple regression and analysis of variance. Logistic regression and methods for correlated data are also covered. Matrix algebra and the statistical package SAS will be used.

Topic-based Courses

EPID 6624 – Public Health Surveillance
This course focuses on characteristics, development, uses, and evaluation of major public health surveillance systems. History, goals, public health authority, analysis, interpretation, dissemination and privacy issues are covered. Key surveillance systems (incl. communicable diseases, STI/HIV, vital statistics, cancer, risk factor and health behaviors) are explored.

EPID 6628 – Global Health and Disasters
Preparation for international experiences and future global health work. The interactive training incorporates readings, lectures, small group problem based learning exercises, journal club discussions, technical skill sessions and a disaster simulation exercise. 2 week M-F training followed by 4 journal club sessions.

EPID 6634 – Applied Global Health Epidemiology
This course provides the opportunity to apply previously gained analytic skills to "real world“ examples of global public health investigations as well as US public health investigations covering topics/skill sets
with global importance. It also provides opportunities to explore in depth the practical applications of skills.

**EPID 6635 – Infectious Disease Epidemiology**
This course considers the epidemiology of selected infectious diseases. Methods for their prevention and control, and assessment of these methods will be treated primarily through case studies.

**EPID 6636 – Chronic Disease Epidemiology**
The major chronic diseases of Western countries will be reviewed including heart disease, cancer, stroke, diabetes, neurological diseases, and selected other conditions. Factual information about epidemiology of these diseases will be provided with the discussion of methodological issues which arise.

**EPID 6637 – Injury Epidemiology and Control**
Students will learn the major causes of and risk factors for injuries and violence, identify and use key data sources to characterize injury problems, develop and evaluate injury control and prevention strategies, critically analyze literature and explore injury related research options.

**EPID 6640 – Investigation of Disease Outbreaks**
This course will cover the epidemiologic steps in a disease outbreak investigation and the methods used in detection, investigation and control of disease outbreaks. Outbreak case studies will be used to illustrate concepts and approaches. Students will describe, analyze and interpret outbreak data.

**EPID 6641 – Epidemiology of Foodborne and Diarrheal Diseases**
Agents causing foodborne and diarrheal diseases have different clinical presentations, environmental niches, and modes of transmission. Students will learn about important foodborne agents, surveillance and epidemiological methods used to investigate risk factors for disease, and prevention and control strategies.

**EPID 6644 – Maternal Child Health Epidemiology**
This course will teach public health students to use information from epidemiology and advanced analytic specialties such as trend analysis, multivariate analysis, small area analysis, geographic information systems and assessment secular trends to design, assess, plan, and evaluate MCH programs.

**EPID 7640 – Genetic Epidemiology**
This course will be a problem-based class, covering basic genetic principles and teaching epidemiologic methods employed in the investigation of the genetic susceptibility to chronic disease.

**EPID 7615 – Pharmacoepidemiology**
This course builds upon fundamental concepts and methods of epidemiology, applied to the study of pharmaceuticals. Topics include: The FDA approval process, mechanisms of adverse drug effects, methods and data systems for studying drug-effect relationships, and evaluating published pharmacoepidemiology studies.
EPID 6649 - Vaccine Science, Application and Policy

Processes leading to vaccine development and implementation and the use of immunizations for disease prevention. Emphasis on in-depth understanding of the vaccines successfully introduced into routine immunization programs and the epidemiologic tools necessary to develop and evaluate vaccines, policy making, safety and effectiveness.

BIOS 6623 – Advanced Data Analysis

This course teaches the students how to be effective collaborators. Students will learn to modify project hypotheses to be statistical hypotheses. The students will identify and perform the appropriate data analyses and communicate their analyses both verbally and in writing.

BIOS 6680 – SAS Database Design/Management

Course introduces students to how SAS can be used to manipulate data and prepare it for analysis: inputting, recoding, reformating, sub-setting and merging data, and simple reports and SAS Macros. Principles and implementation of database design will also be discussed.

CLSC 7151 – Lectures in Ethics and Regulation in Human Subjects Review

This course will provide an overview of the field of ethics in clinical research. It is designed for non-Clinical Science degree and certificate students and investigators who will be conducting research involving human subjects. Topics include the historical background, current regulations, and IRB requirements.

PUBH 6600 – Foundations in Public Health

This course examines the historical and conceptual bases of public health, the key issues and problems faced by the public health system, and the tools available for the protection and enhancement of the public’s health.

Examples of Biomedical Science Courses

These are just a few examples for courses, which meet the biomedical minor requirement. Please refer to the current UCD AMC Graduate School course book for more detailed course descriptions and specific information regarding prerequisites and the semester the course is being offered. The current UCD AMC Graduate School course book may be found at:

http://www.ucdenver.edu/anschutz/studentresources/Registrar/CourseListings/Pages/default.aspx

Note: Some of the course descriptions include comments from Epidemiology doctoral students who have taken the course. Look for an * for their evaluation.
CANB 7600 – Cancer Biology

This course integrates the examination of cancer at molecular, cellular, tissue and organismal levels. Course open to all graduate students from any program with an interest in mechanisms and models of cancer and will give broad appreciation for current issues/problems.

CANB 7620 – Histophysiology

Discussions of cell interactions, tissue physiology, and renewal based upon the histologic cell types and structures present. Where pertinent, pathologic alterations will be introduced to facilitate identification of the important normal functions/structures.

CLSC 7500 – Practical Application of Molecular and Cell Biology Techniques for the Clinical Investigator

Designed to teach clinical investigators basic molecular and cellular biology techniques. Format will be hands-on with lectures designed to illustrate significance and clinical application of techniques. Weekly special topics lectures will cover cutting edge technologies and their application.

* Epidemiology doctoral student evaluation: Highly recommended.

HMGP 7600 – Survey of Human Genetics

Survey of human genetics, including Mendelian and other types of inheritance, chromosomes and cytogenetics, molecular and biochemical basis of genetic disease, quantitative genetics and gene mapping, developmental and cancer genetics, clinical genetics, and genetic screening and prenatal diagnosis.

*Epidemiology doctoral student evaluation: HMGP 7600 is a great course, which covers many aspects of human genetics. It is very interesting and helpful to any student who is interested in genetic epidemiology. However, it assumes a fairly high background level of genetics knowledge. This course more or less assumes that you have background knowledge of at least one semester of an undergraduate course specifically in genetic; Recommended - Lots of information, good overview of the field. Many instructors lecture; It was far more challenging and required significantly more background then traditional "survey" courses. Should probably be considered a preliminary exam prep course for HMGP students. However it was a beneficial course and it was possible for someone with minimal background to pass and learn a good deal of genetics.

IDPT 6006 – Obesity and Cardiovascular Disease

The course will cover how obesity relates to cardiovascular disease including basic and clinical mechanisms on the pathophysiology of vascular biology, insulin resistance, risk factors, and outcomes, and how therapeutic interventions modify cardiovascular disease risk.

IDPT 7646 – Tissue Biology and Disease Mechanisms

This course provides an overview of organ systems and disease through 1) a survey of the major systems, including the cellular and molecular mechanisms underlying their function and repair, integrated with 2) common diseases, current therapies, and their mechanistic basis.
IMMU 7630 – Overview of Immunology
An overview course in immunology for non-Immunology-program graduate students. The focus is human relevance and the practical use of immunology in a variety of fields. Students gain experience applying immunological knowledge to their own area of interest.

*Epidemiology doctoral student evaluation of the former course, IMMU 7629: This is a basic course in cellular and clinical immunology. It is a lecture course with one comprehensive final exam. This course is an excellent introduction to the principles of human immunology and gives a good overview of some basic research methodologies used in the field. Anyone with some basic biology background should be able to follow the course material. Students who have not had upper-level cellular biology or biochemistry may have to do some extra reading for the exams, but all of the course material is very well referenced. The instructor for this course is Dr. John Cohen. His lectures alone make the class worthwhile; Best course, I've taken. Tremendous instructor – draws connections on many topics, contributes to an overall understanding of Human Biology. Provides an overview of immunology for non-Immunology-program graduate students. The focus is human relevance and the practical use of immunology in a variety of fields. Students gain experience applying immunological knowledge to their own area of interest.

IMMU 7662 – Immunology
This course covers the basic principles of the immune system. Included are discussions on (i) the innate and adaptive immune responses, (ii) the molecular and cellular basis of immune specificity and (ii) aspects of clinical immunology.

IPHY 6601 - Human Physiology
This course in Physiology is designed to provide an understanding of the functions of cells, tissues, and organs in the human body and the overall integration of organ functions in the body as a whole.

IPHY 7840 – Advanced Topics in Cell Signaling
Students select topics of interest in the area of cell signaling and receive one-on-one instruction from expert faculty. Each one-credit topic will be taught for 5 weeks. Course work will include reading and discussing papers as well as practical exercises.

MICB 7701 – Molecular Virology and Pathogenesis
Topics in this course include viral structure and genome organization, replication and expression of viral genomes, mechanism of action of tumor viruses, molecular aspects of virus-host cell interactions, animal models of infectious diseases and pathogenesis of human viruses.

MICB 7702 – Molecular Mechanisms of Bacterial Disease
Course will provide an introduction to the biology of pathogenic bacteria and an in-depth discussion of several paradigms of bacterial diseases, which will illustrate important concepts, and molecular mechanisms of bacterial pathogenesis and evasion of the host defenses.

MICB 7704 – Host Response to Infectious Disease
This interactive graduate course, which provides an overview and specific examples of the host response to infectious disease. Current research and future directions in the field are discussed. Students are assessed via presentations, participation, and an exam.
MICB 7705 - Medical Microbiology
This course will focus on Microbiology and Infectious Diseases. Course content will focus on: pathogenicenic bacteria, viruses, fungi, parasites; emphasis on microbial virulence determinants, host-pathogen interactions emphasizing host immune responses, signs, and symptoms of disease presentation, epidemiology, and diagnosis of infectious diseases.

NRSC 7501 – Introduction to Neuroscience
Introduction to study of the nervous system from the level of the brain to an understanding of how neurons are specialized for communication and information processing.

PHSC 7310 – Fundamentals of Pharmaceutical Sciences
Core course explores key aspects of Pharmaceutical Sciences. Major themes will focus on macromolecular interactions, pharmaceutics, pharmacokinetics, pharmacodynamics, apoptosis, signal transduction and immunology. Critical thinking and problem solving skills will be emphasized via lectures, discussions, and computer-based data analyses.

PHSC 7350 – Proteins
Chemical and physical basis for protein structure, folding, function and stability; role of molecular dynamics, use of molecular simulations in investigations of protein-ligand and protein interactions; methods and principles of protein/peptide purification and enzyme catalysis, including electron transfer and mutagenesis.

PHSC 7405 – Hands-On Metabolomics Workshop
A 4-day intensive hands-on workshop that provides a comprehensive view of metabolomics. Participants will learn introductory metabolomics science and applicable protocols/technologies. Appropriate for individuals with little to no experience in mass spectrometry and who will use this technology in their research.

TXCL 7322 – Molecular and Target Organ Toxicology
The course is designed to provide a foundation in molecular mechanisms of toxicity. Biochemical mechanisms underlying toxicity will be analyzed and integrated with discussions of reactive metabolites, oxidative stress, signal transduction, cell death and organ specific toxicity.

TXCL 7323 – Environmental and Target Organ Toxicology
The course is designed to provide a fundamental understanding of environmental-related toxicants (e.g. solvents, pesticides, metals, radiation) with emphases on the molecular mechanisms underlying their organ specific toxicity and on risk assessment.

TXCL 7326 – Current Concepts and Comprehensive Reviews of Physiology
This course will consist of a comprehensive overview of the physiology of nervous cardiovascular, respiratory, renal, gastrointestinal, endocrine, and reproductive systems. Graduate students enrolled in this course will receive assignments concerning organ-specific, cell-cell interactions in overall physiology.
TXCL 7560 – Drug Metabolism and Pharmacogenetics 1
This course will focus on the reactions that the exogenous compounds undergo in mammalian systems and the mechanisms of these reactions. Enzyme kinetics and unusual (idiosyncratic) drug responses that have a hereditary basis will be discussed. This interrelationship between genes and drug metabolism along with studies on polymorphic differences in genes encoding drug-metabolizing enzymes will also be discussed.

TXCL 7561 – Drug Metabolism and Pharmacogenetics
This course will focus on the reactions that the exogenous compounds undergo in mammalian systems and the mechanisms of these reactions. Enzyme kinetics and unusual (idiosyncratic) drug responses that have a hereditary basis will be discussed.

TXCL 7564 - Environmental Risk assessment and Applied Toxicology
Provides students with experience in risk assessment, environmental toxicology for public health and regulatory decision making. Topics include comprehensive human health risk assessments, baseline/probabilistic statistics, ecological risk assessment activities associated with emergency action, medical monitoring, and role toxicology plays in the courtroom.

TXCL 7575 – Drug Development for the Toxicologist
Overview of drug development process. Course will provide understanding of regulatory obligations required for submitting an N.D.A. as well as discussions related to additional corporate roles including activities for in vivo study conduct & due diligence review for licensing opportunities.

TXCL 7655 – Pharmacokinetics and Toxicokinetics
This is a course on the pharmacokinetic analysis of xenobiotics. Absorption, distribution, metabolism, and elimination of drugs will be discussed with focus on mathematical descriptions.
To serve as the primary mentor for an Epidemiology MS or PhD thesis, a faculty member must have a Regular Appointment in the Graduate School. Regular appointment requires that the faculty be a tenure-track Assistant, Associate or Full Professor with a PhD in Epidemiology or a PhD in a closely related field accompanied by a body of work demonstrative of expertise in Epidemiology. This quick reference table describes qualification of members of an MS or PhD thesis committee: https://www1.ucdenver.edu/docs/librariesprovider138/denver-anschutz-graduate-school/resources/graduate-faculty-quick-reference-table.pdf?sfvrsn=ef0622b9_2

Below is a table of the current faculty with a Regular Appointment in the Graduate School to mentor MS and PhD Epidemiology students. Other faculty may be eligible pending a discussion with the Program Director and Graduate School.

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
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<tbody>
<tr>
<td>Sheana Bull, MPH, PhD</td>
<td>Sexual and reproductive health, mHealth and digital health, adolescent health</td>
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<tr>
<td>Elizabeth Carlton, MPH, PhD</td>
<td>Global health, infectious disease, waterborne diseases, health impacts of climate change</td>
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<tr>
<td>Tessa Crume, MSPH, PhD</td>
<td>Public health surveillance, perinatal epidemiology, maternal child health, diabetes epidemiology, substance use and pregnancy</td>
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<tr>
<td>Dana Dabelea, MD, PhD</td>
<td>Diabetes, developmental origins of chronic disease, insulin resistance and obesity</td>
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<tr>
<td>Carolyn DiGuiseppi, MPH, MD, PhD</td>
<td>Autism, injury epidemiology, systematic reviews, motor vehicle safety</td>
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<tr>
<td>Tasha Fingerlin, PhD</td>
<td>Genetic epidemiology, type 1 and type 2 diabetes, chronic beryllium disease</td>
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<tr>
<td>John Hokanson, MPH, PhD</td>
<td>Genetic epidemiology of complex chronic diseases, lung disease, cardiovascular disease, nicotine dependence</td>
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<tr>
<td>Thomas Jaenisch, MD, PhD</td>
<td>Infectious disease, global health, vectorborne diseases</td>
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<tr>
<td>Kathy James, MSPH, PhD</td>
<td>Environmental health, air quality, water quality.</td>
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<tr>
<td>Lee Newman, MD, MA</td>
<td>Occupational and environmental health, total worker health</td>
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<tr>
<td>Jill Norris, MPH, PhD</td>
<td>Autoimmune diseases (type 1 diabetes, rheumatoid arthritis, celiac disease, lupus, multiple sclerosis), genetic epidemiology, nutrition epidemiology</td>
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<tr>
<td>Linda Cook, PhD</td>
<td>Cancer epidemiology</td>
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<tr>
<td>Desmond Runyan, MD, DrPH</td>
<td>Child abuse and maltreatment</td>
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<tr>
<td>Elaine Scallan Walters, PhD</td>
<td>Infectious disease, foodborne and enteric diseases, outbreak investigation</td>
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<tr>
<td>Janet Snell-Bergeon, MPH, PhD</td>
<td>Type 1 diabetes, cardiovascular disease, women’s cardiovascular health</td>
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<tr>
<td>Loranne Stallones, PhD</td>
<td>Injury epidemiology, women’s health</td>
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<tr>
<td>Nicholas Walter, MD, PhD</td>
<td>Tuberculosis, HIV/AIDS</td>
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<tr>
<td>Talia Quandelacy, PhD</td>
<td>Infectious disease</td>
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<tr>
<td>Wei Perng, PhD</td>
<td>Nutritional epidemiology, early life determinants of metabolic and cardiovascular disease</td>
</tr>
</tbody>
</table>

Revised July 2022
Key Contacts

CU Anschutz Medical Campus Program/Concentration Directors

Bailey Fosdick, PhD
Concentration Director
Applied Biostatistics, MPH
Bailey.Fosdick@cuanschutz.edu

Tessa Crume, PhD, MSPH
Program Director
Epidemiology, MS & PhD
Tessa.crume@cuanschutz.edu

Carsten Görg, PhD
Program Co-Director
Biostatistics, MS & PhD
Carsten.Goerg@cuanschutz.edu

Brandie Wagner, PhD
Program Co-Director
Biostatistics, MS & PhD
Brandie.Wagner@cuanschutz.edu

Angela Brega, PhD
Concentration Director
Community & Behavioral Health, MPH
Angela.Brega@cuanschutz.edu

Molly Lamb, PhD
Program Director
Epidemiology, DrPH
Molly.Lamb@cuanschutz.edu

Ashley Brooks-Russell, PhD, MPH
Program Director
Community and Behavioral Health, DrPH
Ashley.Brooks-Russell@cuanschutz.edu

Cathy Battaglia, PhD, MSHA, RN
Rich Lindrooth, PhD
Program Co-Directors
Health Services Research, MS & PhD
Catherine.battaglia@cuanschutz.edu
Richard.lindrooth@cuanschutz.edu

Charlotte Farewell, PhD
Concentration Director
Population Mental Health & Wellbeing, MPH
Charlotte.farewell@cuanschutz.edu

Beth McManus, PT, MPH, ScD
Concentration Director
Health Systems, Management & Policy, MPH
Beth.McManus@childrenscolorado.org

Alison Bauer, PhD
Concentration Director
Environmental & Occupational Health, MPH
Alison.Bauer@cuanschutz.edu

Mary Dinger, PhD
Concentration Director
Leadership and Public Health, MPH
Mary.Dinger@cuanschutz.edu

Beth Carlton, PhD
Program Director
Environmental and Occupational Health, DrPH
Beth.Carlton@cuanschutz.edu

Elizabeth Greenwell, Sc.D.
Concentration Director
Maternal & Child Health, MPH
Elizabeth.greenwell@cuanschutz.edu

Madiha Abdel-Maksoud, MD, PhD
Concentration Director
Epidemiology, MPH
Global Public Health Plus, MPH
Madiha.abdel-maksoud@cuanschutz.edu

Megan Cherewick, PhD, MPH
Concentration Director
Global Health + Community & Behavioral Health, MPH
Megan.Cherewick@cuanschutz.edu

Department Chairs

Debashis Ghosh, PhD
Chair, Applied Biostatistics
Debashish.Ghosh@cuanschutz.edu

Lee Newman, MD, MA
Interim Chair, Environmental & Occupational Health
Lee.Newman@cuanschutz.edu

Jenn Leiferman, PhD
Chair, Community & Behavioral Health
Jenn.Leiferman@cuanschutz.edu

Jill Norris, PhD, MPH
Chair, Epidemiology
Jill.Norris@cuanschutz.edu

Glen Mays, PhD
Chair, Health Systems, Management & Policy
Glen.Mays@cuanschutz.edu
Office of Academic and Student Affairs

Danielle (Dani) Brittain, PhD  
Associate Dean for Academic and Student Affairs  
Danielle.BBrittain@cuanschutz.edu

Laura Hager, MPA  
Assistant Director of Enrollment Operations  
Laura.Hager@cuanschutz.edu

Lauren Boissy, MPH  
Senior Practice-Based Learning Professional  
Lauren.Boissy@cuanschutz.edu

Lindsey O’Reilly,  
Admissions Processing Specialist  
Lindsey.OReilly@cuanschutz.edu

Katherine Brumfield, MA  
Career Services Manager  
Katherine.Brumfield@cuanschutz.edu

Tony Romero, MA  
Assistant Director of Evaluation and Accreditation  
Tony.Romero@cuanschutz.edu

Kayla Gray  
Student Lifecycle Sr. Professional  
Kayla.V.Gray@cuanschutz.edu

Brenda Witt  
Academic Affairs Sr. Professional  
Brenda.Witt@cuanschutz.edu

Katie Guthmiller, MPH  
Recruitment & Outreach Sr. Professional  
Katie.Guthmiller@cuanschutz.edu

General Inquiries:  
ColoradoSPH.Admissions@cuanschutz.edu  
ColoradoSPH.StudentAffairs@cuanschutz.edu  
ColoradoSPH.AcademicAffairs@ucdenver.edu

Colorado State University

Tracy Nelson, PhD, MPH  
Director  
tracy.nelson@colostate.edu

Kendra Bigsby, MPH  
Assistant Director  
Kendra.Bigsby@colostate.edu

Lily Doniger  
Administrative Assistant  
Lily.Doniger@colostate.edu

Christina Pasana  
Academic Support Coordinator  
Chirstina.pasana@colostate.edu

University of Northern Colorado

Teresa Sharp, PhD  
Director  
Teresa.Sharp@unco.edu

Esta Lukemire  
Assistant to Director  
Esta.Lukemire@unco.edu