



# Department of Bioengineering

UNIVERSITY OF COLORADO

**DENVER | ANSCHUTZ MEDICAL CAMPUS**

## Undergraduate Student Handbook 2021-2022

\*The year of this guide corresponds to the year of regular entry into the program. It will also be the “catalog year” for the student’s major.

### **Denver Campus Office**

Department of Bioengineering,  
College of Engineering, Design and Computing  
1200 Larimer Street, NC-2204  
Denver, Colorado 80217

### **Anschutz Medical Campus Office**

Center for Bioengineering, CU School of Medicine  
Anschutz Medical Campus, Bioscience 2  
12705 East Montview Blvd., Suite 100  
Aurora, CO 80045

Phone: 303.724.5893

*This guide does not constitute a contract, either expressed or implied, with the Bioengineering Program or the University of Colorado Denver, College of Engineering, Design and Computing, and the University reserves the right at any time to change, delete or add to any of the provisions at its sole discretion. Furthermore, the provisions of this document are designed by the University to serve as guidelines rather than absolute rules, and exceptions may be made on the basis of particular circumstances. **August 2021.***

## Table of Contents

<b>Table of Contents</b>	<b>2</b>
How to use this Handbook	4
Important Acronyms	4
<b>About the Program</b>	<b>5</b>
The Department of Bioengineering Mission	5
The Department of Bioengineering Program	5
Academic Calendar	5
Faculty & Staff	5
<b>Bioengineering Events</b>	<b>6</b>
New Anschutz Student Camp and Orientation	6
Other Department Events	6
<b>Academic Integrity Policy &amp; Expectations of Students</b>	<b>7</b>
<b>Academic Integrity</b>	<b>7</b>
Research Honesty and Integrity	7
College of Engineering, Design and Computing Honor Code for Students	7
College of Engineering, Design and Computing Honor Code – Faculty Responsibilities	8
<b>Conduct Expectations</b>	<b>9</b>
<b>Student Resources</b>	<b>11</b>
<b>Student Services</b>	<b>11</b>
<b>Equal Opportunity and Non-Discrimination</b>	<b>11</b>
<b>Disability Resources</b>	<b>12</b>
<b>Police and Safety</b>	<b>13</b>
<b>Badging &amp; Room Access</b>	<b>13</b>
<b>Bursar's Office</b>	<b>14</b>
<b>Resources for Books</b>	<b>14</b>
<b>Health and Wellness</b>	<b>15</b>
<b>Housing</b>	<b>17</b>
<b>Parking and Transportation</b>	<b>17</b>
<b>Registrar's Office</b>	<b>17</b>
<b>Bioscience 2 Resources</b>	<b>18</b>
<b>Undergraduate Program in Bioengineering</b>	<b>19</b>
<b>About the Program</b>	<b>19</b>
<b>Tuition and Funding</b>	<b>20</b>
<b>Admissions to the Bachelor's in Bioengineering</b>	<b>21</b>
Admission to University of Colorado Denver	21
First-Time Freshmen	21
Transfer Students and Intra-University Transfer (IUT)	21
Admission to Pre-Engineering	22
Admission to CLAS-Undeclared	22
International Admissions	<b>22</b>
Change of Major within the College of Engineering, Design and Computing	22
Transfer Credit Evaluation	22

<b>Requirements for a BS in Bioengineering</b>	<b>23</b>
CU Denver Core Curriculum Requirements	23
Downtown Denver Campus (DDC) Requirements	23
Required Courses on the Downtown Campus	24
Downtown Campus Sample Plan	25
Upper-division Major Requirements	26
Technical Electives	26
BS/MS Program	26
<b>Academic Policies</b>	<b>26</b>
Prerequisites	26
Academic Performance	27
Academic Expectations of the Bioengineering DDC Student	27
Academic Expectations of the Bioengineering Major	27
Attendance Regulations	27
Repeat and Withdrawal Policies	27
<b>Preparation for Graduation</b>	<b>27</b>
<b>Undergraduate Student Support</b>	<b>28</b>
Bioengineering Undergraduate Affairs Committee	29
Student Services	29
Academic Mentoring	29
Internships and Career Planning	29
Research Opportunities	29
<b>Directory of Services</b>	<b>31</b>
Anschutz Medical Campus Badging Office	31
Anschutz Medical Campus Parking Office	31
Anschutz Medical Campus University Police Department	31
CARE Team	31
Graduate Student Progress Coordinator	31
Student Health Insurance Office	31
Office of Campus Student Services, Anschutz Medical Campus	31
Student Mental Health Service	31
Department Directory	32

## **How to use this Handbook**

This guide is intended to provide information, rules, regulations, policies and procedures for the Bachelor of Science (BS) in Bioengineering, the College of Engineering, Design and Computing, and CU Denver | Anschutz Medical Campus. It is recommended that students interested in pursuing a degree in Bioengineering contact the Undergraduate Manager, respectively, prior to applying to CU Denver and registering for classes.

A copy of this Student Guide is available to every student in the Bioengineering Program. Each student is responsible for reading, understanding, and complying with all rules, regulations, and policies stated in this publication for their degree program of interest. The Guide is also available to those who are considering applying to CU Denver and/or are categorized as pre-engineering students in the College of Engineering, Design and Computing. Students are expected to be familiar with and abide by all rules and regulations presented in this guide.

A revised copy of this Guide will be provided to each degree-seeking student annually. Addenda to the Guide will be published and distributed as necessary. The Department of Bioengineering, with consultation from other University staff and administration, will address issues not explicitly mentioned in this Guide as needed.

CU Denver, the College of Engineering, Design and Computing, and the Bioengineering program reserves the right to revise information, requirements, policies, rules, and regulations at any time. Whenever changes occur, every effort will be made to notify students who may be impacted.

## **Important Acronyms**

AMC = Anschutz Medical Campus

AY = Academic Year

BIOE = Bioengineering

BS = Bachelor of Science

DC = Downtown Campus

BMES = Biomedical Engineering Society

BUAC = Bioengineering Undergraduate Affairs Committee

GPA = Grade Point Average

## About the Program

### **The Department of Bioengineering Mission**

The mission of the CU Denver | Anschutz Department of Bioengineering is to improve human health through the application of engineering principles, ideas, methods and inventions in order to solve important clinical problems.

### **The Department of Bioengineering Program**

The Department of Bioengineering is the first program of its kind in Colorado, offering students unparalleled opportunities as they learn and work on Colorado's only academic medical campus. The combination of technical learning, immersive experiences in the clinical and biomedical enterprise beyond the classroom, and out-of-classroom opportunities to learn about cutting-edge patient care and research, is provided by only a handful of universities across the United States.

Bioengineering is a true dual-campus department and program. Administratively, the Department of Bioengineering is within the College of Engineering, Design and Computing, located on the Downtown Campus (DC) in Denver. Physically, the department is located on the Anschutz Medical Campus (AMC) in Aurora. Undergraduate students complete the first portion of their studies on the Downtown Campus, and then complete their degree at AMC. Graduate students will spend the majority of their time on the medical campus; however, they may choose to and are permitted to enroll in classes on the downtown or Boulder campuses.

The consolidation of the Downtown Campus (DC) and the Anschutz Medical Campus (AMC) provides unprecedented instructional resources in bioengineering and research opportunities in health sciences. Students have opportunities to learn from clinicians and engineers and to perform research or medical device design in world-class hospitals and clinical research labs.

The Department of Bioengineering is primarily housed in Bioscience 2 and Bioscience 3 at AMC. The department also has facilities in the Barbara Davis Center, Research Tower I, Research Tower II, and in the Children's Hospital Colorado Research Institute. These state-of-the-art facilities offer specialized teaching spaces including a Biomechanics and Bioinstrumentation Lab, a Biophotonics Lab, a Design and Prototyping Lab, a Light Machine Shop, a Biomaterials with Cell/Tissue Culture Lab, and a Clinical Simulation and Assistive Technology suite. These buildings also offer students several community spaces to meet, collaborate, study, and socialize.

### **Academic Calendar**

The Department of Bioengineering follows the Downtown Campus academic and holiday calendars, which are sometimes different from the Anschutz Medical Campus calendar. Please pay close attention to the appropriate calendars and check with professors or program administrators if you have any questions or concerns. Students may find the Academic Calendars on CU Denver Registrar's website.

### **Faculty & Staff**

The program strives to create an atmosphere that is respectful and inclusive, with an emphasis on the student. All faculty and staff have open-door policies and will communicate office hours; scheduling a one-on-one meeting is the best way to ensure staff availability.

## **Bioengineering Events**

---

The University of Colorado Denver and the Anschutz Medical Campus are continually hosting events across disciplines; students are encouraged to attend events that may deepen their understanding of a particular topic of interest, and engage in the greater CU Denver community through involvement in clubs, academic honor societies, and other organizations. The Department of Bioengineering and its chapter of the Biomedical Engineering Society host several events as well.

### **New Anschutz Student Camp and Orientation**

The week before fall classes begin, all students starting coursework at the Anschutz Medical Campus are invited to New Major Orientation. This one-day event includes an orientation to students' academic program and the medical campus, as well as an opportunity to speak to continuing students, hear from faculty and learn more about the department's culture, opportunities and resources.

### **Recruitment and Community Events**

As part of the bioengineering community, students may be asked to participate in recruitment and community events sponsored by the department. These may include open houses, high school visits, laboratory tours, conferences etc.

### **Other Department Events**

The Department hosts events during the lunch hour (12:15-2:00pm) nearly every Tuesday during the semester. These may be a Lunch & Learn, where a lecturer comes in to share exciting information and opportunities for students. Lunch & Learns feature a variety of speakers, from industry professionals to career preparation experts to biomedical nonprofit leaders. Research in Progress lectures are presented by both graduate and undergraduate students, and showcase students' research. All students are highly encouraged to attend.

The Department also hosts a Bioengineering Seminar Series that typically occurs on Fridays during the lunch hour. These feature prominent bioengineering research faculty from around the country and are a great way to learn more about the field.

### **Student Organizations**

The CU Denver BMES Student Chapter strives to develop understanding and promote integration of bioengineering through discussion amongst students, faculty, and guest lecturers from industry and academia. For more information, contact [Emily.Gibson@cuanschutz.edu](mailto:Emily.Gibson@cuanschutz.edu).

Other Student Organizations in the Department of Bioengineering include the BioEngineering Empowerment Program (BEEP), the Society for Biomaterials (SFB), and the Society for Women Engineers. For more information about these programs please contact the Program Coordinators listed below.

BEEP     [Lauren.Desjardins@cuanschutz.edu](mailto:Lauren.Desjardins@cuanschutz.edu)  
SFB       [Chelsea.Magin@cuanschutz.edu](mailto:Chelsea.Magin@cuanschutz.edu)  
SWE       [Wendy.Schadler@cuanschutz.edu](mailto:Wendy.Schadler@cuanschutz.edu)

# Academic Integrity Policy & Expectations of Students

## Academic Integrity

---

### Research Honesty and Integrity

As a future bioengineer, students should adhere to the highest standards of professionalism in research and conduct. Examples of unprofessional conduct include misrepresenting effort, credentials, or achievement in either an academic or professional setting; any action that compromises the quality or safety of patients, research subjects or colleagues; violation of patient or student confidentiality; and falsification of data. Lab benches and equipment set up for research should be respected at all times. Read the full [Academic Integrity Policy](#) effective as of January 1, 2020.

### College of Engineering, Design and Computing Honor Code for Students

The Honor Code outlined below is the College of Engineering, Design and Computing statement on academic integrity. The Code articulates the College's expectations of its students and faculty in establishing and maintaining the highest standards in academic work.

**The Honor Code of the College of Engineering, Design and Computing is a statement of its students, individually and collectively:**

- Students will not give or receive aid during examinations.
- Students will not use any prohibited electronic devices during examinations.
- Students will not give or receive unpermitted aid in class work, in the preparation of reports, or in any other work that is to be used by the instructor as the basis of grading.
- Students will uphold the spirit and letter of the Honor Code and they will take an active role to ensure that others uphold the Honor Code and if they observe violations of the Honor Code they must report violations to their Department Chair.
- The Faculty of the College will do its part to ensure its confidence in the honor of its students. Faculty must ensure that precautions are in place to prevent the forms of dishonesty mentioned above. Faculty will also avoid, as far as practical, academic procedures that create temptations to violate the Honor Code. Faculty alone has the right and obligation to set academic requirements. However, the students and faculty will work together to establish optimal conditions for honorable academic work.

**Violations of the Honor Code Examples of conduct that will be regarded as being in violation of the Honor Code include:**

- Copying from another's examination paper or allowing another to copy from one's own paper.
- Plagiarism in any shape or form. Plagiarism is defined as the use, without giving reasonable and appropriate credit to or acknowledging the author or source, of another person's original work, whether such work is made up of code, formulas, ideas, language, research, strategies, writing or other form(s).
- Giving or receiving unpermitted aid either in person or via electronic devices.
- Engaging in unauthorized collaboration on academic assignments or examinations.
- Representing as one's own work the work of another.

---

### **Penalties for Violating the Honor Code**

Most student disciplinary cases have involved Honor Code violations. Of these, most cases arise when a student submits another's work as his or her own, gives or receives unpermitted aid, or engages in unauthorized collaboration. If a violation occurs during a quiz or on a homework assignment, the student will receive a zero for that quiz or assignment. If a violation occurs on an examination, the student will receive a failing grade for the course. The standard penalty for a first offense may include suspension from the College of Engineering, Design and Computing for a severe infraction of the Honor Code. The penalty for a second violation will be expulsion from the College of Engineering, Design and Computing.

It is the responsibility of the student to seek clarification from the instructor when in doubt about these guidelines.

### **College of Engineering, Design and Computing Honor Code – Faculty Responsibilities**

Academic honesty is one of the foundations of the educational mission of our College and University. Academic dishonesty as outlined in the College of Engineering, Design and Computing Student Honor Code is corrosive to the intellectual principles and is inconsistent with the ethical standards of our University. Academic dishonesty damages the sense of trust and community among students, faculty and administrators. The Faculty of the College must assume responsibility for ensuring academic integrity in their classrooms and develop tools to ensure the success of this mission.

The Student Honor Code sets forth the standards of honesty which student members of the College are expected to follow. Faculty members of the College are bound to adhere to the strictest standards of academic honesty and must enforce the Honor Code when they observe violations. All members of our academic community have an obligation to familiarize themselves with these standards and to conduct themselves in accordance with both their letter and their spirit. Our College has committed to implementing these standards and to educate all faculty, staff and students on the importance of academic honesty and on the application of these standards in a variety of academic settings.

Accompanying this policy are procedures that set forth a system for enforcement of these standards, including the application of sanctions where violations have been found. Sanctions are necessary to demonstrate that the College treats violations of academic honesty seriously and will act aggressively, when necessary, to deter wrongdoing. The effectiveness of the enforcement scheme depends in large measure on the conscientious cooperation of faculty members in the implementation of the standards. Faculty members are therefore charged with the responsibility assuring student compliance with the requirements of the Student Honor Code and initiating enforcement proceedings where appropriate.

#### ***Faculty members have the responsibility to:***

- Report all incidences of academic dishonesty to the Department Chair.
- Review classroom expectations regarding academic honesty with their students and clearly state the academic consequence of a student's academic dishonesty.
- Describe these expectations clearly in the class syllabus.

- 
- State clearly in the course syllabus that any student seen with an electronic device (cell phone, iPad, etc.) of any kind on their person or within reach during an examination or quiz will be in violation of the Student Honor Code and will be reported to the Department Chair for academic dishonesty.
  - Distribute two or three different examinations during testing.
  - Inform the student immediately and directly of any charges of academic dishonesty.
  - Require (for large classes) their Proctor or TA to assist in ensuring academic honesty. If the Proctor or TA observes cheating, they must notify the Instructor immediately.
  - Submit separate allegation reports if academic dishonesty is suspected or observed for each suspected student, unless the suspicion is that the students colluded in the incident.
  - Keep the suspected student's original examination as well as any students sitting near the student if academic dishonesty occurs during the examination or quiz.
  - Report all of the students when multiple students are suspected of academic dishonesty in order to allow the process to unfold fairly. Allegations made against students who are determined not to have been involved can be withdrawn.

### **Conduct Expectations**

---

The Bioengineering program strives to create an atmosphere that is respectful and inclusive, with an emphasis on student growth and learning. To create such an environment, it is critical that all members of the bioengineering community and degree program understand and aim to meet clearly defined expectations.

#### **Alcohol and Drug Use**

Students must adhere to current University policy governing alcohol consumption on campus and at official functions. Access to University of Colorado Hospital and the Children's Hospital Colorado require passing a standard drug test. In addition, the Anschutz Medical Campus is a smoke-free zone.

Alcohol and/or drug abuse compromises the student's ability to learn and to practice as a researcher and is thus considered unprofessional conduct. Students who attend class and appear to be cognitively impaired as a result of drug or alcohol intoxication may be dismissed from class and/or referred to University Student Services for further action.

#### **Respect for the Rights and Property of Others**

Students should conduct themselves in a manner that recognizes the rights and property of others. Examples of inappropriate behavior include theft, damages to University or personal property of others, disruption of educational or other activities on campus, illegal use of University facilities, sexual harassment, physical assault, and any conduct that threatens the health or safety of others.

---

## **Undergraduate Students**

The University's Student Code of Conduct binds all University of Colorado Denver students. In addition, the Bioengineering program expects that students conduct themselves with integrity and professionalism in academics, research, service and outreach. Mutual respect and understanding is critical as students regularly work in a collaborative team environment. Regular class attendance and participation are the standard. In addition to engagement in the classroom, it is expected that students will become an active part of the bioengineering community by participating in out-of-classroom activities and events. These include research and internship opportunities as well as department and college-wide events.

Students who have issues or concerns regarding a class, faculty, staff or another student in the program may address such concerns with the persons involved. If an issue cannot be resolved and/or such an approach is inappropriate or uncomfortable, students may also contact the Undergraduate Program Manager, the Department Chair, or a representative on the Bioengineering Undergraduate Affairs Committee (BUAC) for assistance.

## **Grievances**

Any time an issue or concern with an instructor, faculty, staff or fellow student occurs, please try addressing that person directly first. If the students are unable to resolve the problem or feel uncomfortable confronting the person, they may go to the Graduate Program Manager, the advisor, the Department Chair or the Graduate Affairs Committee for advice. If the issue cannot be satisfactorily resolved through those avenues, additional resources are available through the College of Engineering, Design and Computing, the Graduate School and the University (see "Campus Resources" on page 28 and the College of Engineering, Design and Computing website for more information).

## **Email**

Email is the official platform for communication at the university. Students must use their official @ucdenver.edu or @cuanschutz.edu email address for all correspondence with university officials including faculty, staff, and administration. Students may expect department faculty and staff to respond to email within 2-3 working days, after which they are encouraged to send a respectful reminder.

## **University Conduct Support**

The Office of Student Conduct and Community Standards serves as a resource to the entire University community through its efforts to meet the developmental and educational needs of students related to community expectations, civility and respect for self and others. A list of resources can be obtained at the Tivoli Student Union, Suite #277 or at <http://www.ucdenver.edu/life/services/standards>.

## Student Resources

A complete list of campus life student resources for the Downtown Campus can be found [here](#). Bioengineering is academically and administratively a downtown department and program, so students have access to resources through the Downtown Campus student services offices.

CU Anschutz student services can be found [here](#).

### Student Services

---

#### Bioengineering Student Services

The Department of Bioengineering currently employs two full-time student services professionals, a Graduate Program Manager, located at Anschutz, and an Undergraduate Program Manager on the Downtown Campus.

#### Anschutz Medical Campus Student Affairs

The Office of Campus Student Services' mission is to enhance student life at the Anschutz Medical Campus of the University of Colorado Denver by providing excellence in specific non-academic and academic student services. They are located on the Anschutz Medical Campus in Education II North – Third Floor Suite, 3123.

#### University-wide Student Affairs

The University of Colorado Denver supports students in all aspects of their personal and academic lives. The Office of Student Life, The Learning Resources Center and the Student and Community Counseling Center are just a few of such resources. Student Services within the Department of Bioengineering is prepared to help students navigate the university environment and identify the services best suited to meet their needs.

#### UCD Access

The online Student Self-Service Portal allows you to apply for financial aid, search for and enroll in classes on the medical and Denver campuses, pay your tuition bills, order transcripts and more. To log into the UCD Access portal, you will need your official University username and password.

### Equal Opportunity and Non-Discrimination

---

#### Notice of Non-Discrimination

The University of Colorado Denver | Anschutz Medical Campus does not discriminate on the basis of race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy in admission and access to, and treatment and employment in, its educational programs and activities. The University takes affirmative action to increase ethnic, cultural, and gender diversity; to employ qualified disabled individuals; and to provide equal opportunity to all students and employees.

Students may report allegations of discrimination or harassment to the Employment Rights Compliance and Investigation Manager, 303-724-9694.

---

## **Title IX Notice of Non-Discrimination**

The University of Colorado does not discriminate on the basis of sex, gender or sexual orientation in its education programs or activities. Title IX of the Education Amendments of 1972, and certain other federal and state laws, prohibit discrimination on the basis of sex in all education programs and activities operated by the university (both on and off campus). Title IX protects all people regardless of their gender or gender identity from sex discrimination, which includes sexual harassment and sexual assault.

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. Your campus Title IX Coordinator is available to explain and discuss: your right to file a criminal complaint; the university's complaint process, including the investigation process; how confidentiality is handled; available resources, both on and off campus; and other related matters.

### **Contact the Campus Title IX Offices:**

Phone: 844-288-4853

Email: [equity@ucdenver.edu](mailto:equity@ucdenver.edu)

#### **Anschutz Medical Campus**

Education 2 North  
13120 E. 19<sup>th</sup> Ave,  
Aurora, CO 80045

#### **Denver Campus**

Lawrence Street Center  
1380 Lawrence Street  
Denver, CO 80217

Additional information regarding Title IX is available at: <http://equity.ucdenver.edu/>

## **Disability Resources**

---

It is the policy of the University and the Program to provide reasonable accommodations to qualified students with a disability so they are able to meet their program requirements. Whether an accommodation is reasonable is determined on an individual case-by-case basis. Qualified students in need of accommodations must contact the University's Disability Resources and Services Office for eligibility and accommodation determinations. More information may be found on the Disability Resources and Services website located at: <https://www.ucdenver.edu/student-services/resources/disability-resources-services/pages/disability-resources-services.aspx>

## **Police and Safety**

---

The University of Colorado Denver and the Anschutz Medical Campus are committed to the safety and security of our students, faculty, staff and visitors. Emergency personnel are available on both campuses. Contact information is below.

### **Denver Campus Police:**

Auraria Campus Police Department  
1201 5th Street  
Auraria Campus Administration Building (1st floor)  
Phone: 303-556-5000 OR Call 9-1-1

### **Anschutz Medical Campus Police:**

The University Police Department, Anschutz Medical  
Campus Building U-09, 12454 E. 19th Place.  
For an emergency, dial 911.  
For police dispatch and non-  
emergencies, dial 303-724-4444.

## **Badging & Room Access**

---

### **Downtown Campus IDs**

All students on the downtown campus must have their ID encoded for ID access to the Bioengineering Lounge in North Classroom 2204. At the beginning of the Fall and Spring semesters, new students can have their ID encoded with Facilities Management at 1156 7th Street. Students can call to make an appointment at 303-556-4296 or check the walk-in hours in the Bioengineering Lounge.

### **Anschutz Campus Badging**

Students get their University of Colorado Anschutz badge at orientation from the Security Badging Office in the Fitzsimons Building on the Anschutz Medical Campus. Students bear the costs of replacement badges. All campus community members are required to wear their badges visibly at all times.

This badge serves the dual purpose of identification and access to many interior and exterior locations. All Bioengineering students are granted regular student access to campus. All other access is added on a need-only basis, and usually takes some time to get the proper approvals, so please plan ahead!

Additional badges (i.e. hospital badges) may be necessary to conduct research. Badging requests will only be made at the request of the advisor and upon the approval of the badging authority. Badge sharing is not permitted.

### **Room Reservations**

Student Services Staff can assist with room scheduling. Please speak with the office staff if you have questions or need to reserve a classroom or conference room.

## **Bursar's Office**

---

The Bursar is responsible for all financial activities related to student billing, tuition collection, institutionally managed loan programs and coordination with the state. Please contact them at [bursar@ucdenver.edu](mailto:bursar@ucdenver.edu)

### **Denver Campus**

Student Commons  
Building 303.315.1800

### **Anschutz Medical Campus**

Education 2 North  
303.724.8032

## **Resources for Books**

---

The Anschutz Medical Campus Bookstore is located in Education 2 building. However, most bioengineering instructors do not send their booklists to the Bookstore. They will direct students to other resources prior to or at the start of class. Please contact instructors with specific questions.

Computers can be purchased at academic discount prices, visit the Auraria Campus Bookstore on Downtown Campus. Students may also ask Apple or Dell directly for the discount.

### **Auraria Campus Bookstore**

Tivoli Building, Suite 105  
303.556.4286

### **Medical Campus Bookstore**

Ed 2 South  
303.724.2665 (4-BOOK)

There are excellent libraries located on both campuses, and Bioengineering students have access to both.

### **Auraria Library**

1100 Lawrence St.  
303.315.7700  
<https://library.auraria.edu>

### **AMC Health Sciences Library**

12950 E. Montview Blvd  
303.724.2152  
[hslibrary.ucdenver.edu](https://hslibrary.ucdenver.edu)

## Health and Wellness

---

### Campus Gyms

The Lola & Rob Salazar Student Wellness Center, located on the Downtown Denver Campus, is a state-of-the-art facility for students of CU Denver. This brand new facility boasts a rock climbing wall, swimming pool, and more. Student membership is free to fee paying students, typically BIOE students enrolled in their freshman and sophomore years.

The Medical Campus is home to the Anschutz Health and Wellness Center. It offers world-class research, education and wellness services in one facility. In addition to high quality gym facilities and group fitness, both wellness centers host cooking classes and wellness services such as massage. Student membership requires a monthly fee.

### The Phoenix Center of Auraria

The Phoenix Center at Auraria (PCA) serves the Auraria Campus. The Center provides free and confidential resources and assistance to survivors of interpersonal violence and their friends and families. Visit [www.thepca.org/](http://www.thepca.org/) for more information.

## Student Health Insurance

---

If you are enrolled in the Student Health insurance plan, you will be enrolled in the downtown health insurance plan until you matriculate at the Anschutz Medical Campus. Please refer to the downtown campus specific health insurance plan details.

***When you matriculate on the Anschutz Medical Campus in your junior year of training, please note that all degree and specific approved, certificate-seeking students on the Anschutz Medical Campus must enroll in the university's Student Health Insurance (SHI) Plan unless they can provide evidence of enrollment in other comparable insurance.*** Students enrolled in less than five credit hours in a degree program are eligible to purchase the SHI Plan by submitting a selection/waiver form by the deadline.

You can find more information on the AMC student health insurance plan here: <https://cuanschutz.edu/student/health-wellness/student-health-insurance/benefit-overview>. The benefits available through this plan are outlined in greater detail [here](#).

The Student Insurance Office is available to assist with selecting or waiving the SHI Plan.

[CUAnschutzStudentInsurance@ucdenver.edu](mailto:CUAnschutzStudentInsurance@ucdenver.edu)

Education II, North Room 3213  
13120 E 19th Ave, Aurora, CO 80045  
303-724-7674

### Campus Health Center at CU Anschutz

The Campus Health Center, located on the second floor of the Anschutz Health and Wellness Center, offers a full spectrum of primary care services. As you navigate student life during the COVID 19 pandemic, it is VERY important you are established with a primary care provider. Please take the time to ensure your current primary care provider accepts your insurance. If you need a primary care provider, please call the Campus Health Center to schedule an appointment to establish care at 303-724-6242. [More information here.](#)

---

## Medical Services and Health Education

The university provides medical and mental health services and health education to students, faculty and staff at an affordable cost. Students are encouraged to explore <https://www.ucdenver.edu/life/living-on-around-campus/health-well-being> for more information about the services available (noting that Bioengineering students are considered “Denver Campus Students.”). For more information regarding the CU Denver Downtown Counseling Center, please go to [www.ucdenver.edu/life/services/counseling-center](http://www.ucdenver.edu/life/services/counseling-center).

[YOU@CUAnschutz](#) provides assessments, resources, and goal-setting tools to customize content and personalized support towards your wellbeing priorities.

Simply [log in](#) to access personalized content and tips to help with *Succeed, Thrive, and Matter*.

[Check out how it works!](#)

## Food Pantry

The CU Anschutz Food Pantry is open and available to all students, faculty and staff. The Food Pantry is located in the University Police station located directly south of the Health and Wellness Center. It is open during regular University Business hours.

[More Information](#)

**Looking for Campus Resources and Departments?** Check out the NEW Student Resources Page. You can find it on the homepage under “Education”.

[Resources Site](#)

---

## Housing

### Downtown Campus Housing

Contact CU Denver Housing and Dining at 303-573-5272 or email [housing@ucdenver.edu](mailto:housing@ucdenver.edu) to learn about your downtown housing options.

### Campus Village

318 Walnut St  
Denver, CO 80204

### Anschutz Medical Campus Student Services

The Anschutz Medical Campus Office of Campus Student Services maintains listings of students who are looking for roommates. These listings can be found at the Student Housing section of the Campus Student Services website.

## **Parking and Transportation**

---

The Anschutz Parking and Transportation Services office is located in Fitzsimons Building on the 2nd floor (west side of the food court eating area). This office assists students with any request and question regarding parking on campus. Their office can be contacted at 303-724-2555.

Students who take classes at the Downtown Campus or Boulder campus may ask the parking office for a “Reciprocal Parking Pass” which will allow access to specific parking lots (check their parking maps) on those campuses at no additional charge if the pass is hung from the vehicle mirror.

Students will have a charge for the RTD College Pass on their account every term. This mandatory fee supports the RTD pass for all students, which includes all regular fixed route services, including bus (local, express, regional), light rail, call-n-Ride, and skyRide service (free to Medical Campus students with RTD College Pass). Services not included in College Pass are Access-a-Ride, BroncosRide, RockiesRide and other special event services. Students may get their College Pass from Badging and Security with their badge. Campus is well-served by the 20, 121, 15 and 89 buses with easy connections to the 105 as well as the R-line light rail.

<https://www.cuanschutz.edu/offices/facilities-management/parking-transportation-maps/maps-information>

## **Registrar's Office**

---

The Registrar is responsible for all grade & course scheduling activities, including transcripts, schedule adjustments, course catalog & curriculum management, changes of record, residency, and personal student information including name change.

**Denver Campus:** Student Commons, phone 303.315.2600

**Anschutz Medical Campus:** 13120 E. 19<sup>th</sup> Ave., phone 303.724.8059

## **Bioscience 2 Resources**

---

### **Lounge and Study Spaces**

Bioscience 2 has a Bioengineering-only student lounge with refrigerators, microwaves, and more. There is ample room for sitting, studying, and socializing in the lounge and study rooms.

### **Lockers**

Students may claim a locker in Bioscience 2. The lockers are for semester-long use. To claim a locker, students must provide their own lock. Students must empty out the locker at the end of the academic year (spring semester). Lockers that have not been cleaned out at the end of the year will be emptied and all contents thrown away.

### **Printing**

A student printer is available for all students to use in the Bioscience 2 Student Lounge. In addition, Anschutz Printing Services offers copying, printing and binding services and there are computer lab locations across campus, including the Education Buildings, Research 1 and the Health Science Library.

## Undergraduate Program in Bioengineering

### About the Program

---

The undergraduate program at the University of Colorado Denver | Anschutz Medical Campus emphasizes the professional competencies of leadership, communication, presentation and critical problem solving. Students will have the opportunity to learn:

- how to design new medical devices and technologies.
- how the body responds to implanted medical devices.
- how to generate solutions for current clinical and research problems using engineering principles.
- how to discuss and present their research and design to a variety of audiences.
- how to convey these results in a precise clinical, academic, or entrepreneurial context.

The BS in Bioengineering will prepare students for careers in the biomedical industry, hospital systems, the government, academic research labs, regulatory agencies, and further education in graduate school or advanced health science programs. The BS curriculum is also designed so that students who wish to enter medical school can fulfill pre-med requirements with few additional courses.

### Learning Goals

The program's student learning goals are derived from the "Criteria for Accrediting Engineering Programs, 2020 – 2021" set by the Accreditation Board for Engineering and Technology (ABET). The program will document the seven student outcomes that define what students should know and be able to do by the time of graduation:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

---

Students achieve all learning goals cumulatively and repeatedly as they progress toward the BS in Bioengineering degree. By experiencing a genuine progression with reiterations from basic proficiency in the pre-major coursework to advanced proficiency in the upper-division major courses, graduates should demonstrate a broad range of understanding in mathematics, life science, and engineering as well as the specific mastery of bioengineering competencies.

### **ABET Accreditation**

The Department of Bioengineering is fully ABET accredited. To read more about ABET and the accreditation process, visit:

<https://engineering.ucdenver.edu/academics/departments/bioengineering/accreditation>

### **Fundamentals of Engineering Exam**

Licensure is not required to work in the field of bioengineering, but some may feel that it offers potential employers a standard way to assess one's preparedness. The process for licensure begins with taking the [Fundamentals of Engineering exam](#) (FE) and graduating from an ABET accredited engineering program. The FE exam consists of two parts, the morning exam which is the same for everyone and the afternoon specialized exam where you select to take the Chemical, Civil, Electrical, Environmental, Industrial, Mechanical, or the Other Disciplines (formerly the General) exam.

Biomedical Engineering students will be most qualified to take the Other Disciplines exam, but you can take the one of your choosing.

Those interested in taking the Fundamentals of Engineering Exam may want to consider registering for relevant review coursework through the College of Engineering Extension Program (CEEP).

### **Time Commitment**

Bioengineering is a rigorous academic program. Previous students report that a full course load results in 40+ hours of class, homework and study time per week. In addition, many students regularly seek the support of the Learning Resources Center, tutors, and academic mentors throughout the semester. More information regarding the Learning Resources Center can be found at: [www.ucdenver.edu/life/services/LRC](http://www.ucdenver.edu/life/services/LRC). Students are also strongly encouraged to develop course specific study groups. Space is available on both the Downtown Denver and Anschutz Medical Campuses to accommodate regular review and study sessions.

Students are encouraged to consider the academic rigor of the program when scheduling off-campus activities such as work, family and personal obligations and keep in mind the majority of the major specific courses will only be taught during the day and during the traditional academic year (fall and spring terms).

### **Tuition and Funding**

---

#### **Bioengineering Tuition and Student Fees**

Bioengineering (DDC subplan) majors will pay downtown Denver tuition and appropriate Auraria (Downtown Denver) Campus fees. Downtown students may also need to meet additional insurance and immunization requirements to participate in undergraduate research and clinical experiences.

---

Once transitioned to the Anschutz Medical Campus, students will continue to pay downtown tuition but with a department specific tuition differential. *Students taking upper-division BIOE classes on the Anschutz Medical Campus will also be assessed Anschutz Medical Campus fees.*

Once on the medical campus, Bioengineering majors (BIOE-BS) must meet the medical campus' health insurance and vaccination requirements. Additional information regarding Student Health Insurance can be found [here](#).

### **Scholarships**

The Scholarship Resources Office provides information about scholarships and offers guidance in the scholarship application process. Students may visit the Scholarship Resources Office located in the Student Commons Building on the Downtown Campus, Education 2 North on the Anschutz Campus, or [here](#).

### **Admission to the BS in Bioengineering**

---

#### **Admission to the University of Colorado Denver**

The University of Colorado Denver's Office of Admissions will receive and review new applications to the College of Engineering, Design and Computing, including those who indicate an interest in the bioengineering major. More information about admissions to CU Denver, including the admission requirements for both high school and transfer applicants can be found at: <https://www.ucdenver.edu/undergraduate-admissions> .

#### **First-Time Freshmen:**

Students with fewer than 24 completed college credits at the time of application are evaluated as first-time freshmen.

##### **Criteria:**

Minimum 3.0 cumulative high school GPA

Minimum 24 ACT composite **or** 1180 SAT composite

Minimum 25 ACT Math **or** 590 SAT Math

#### **Transfer Students and Intra-University Transfers (IUT):**

Students who, at the time of application, have completed 24 or more credits at regionally accredited postsecondary institutions will be evaluated using transfer admission criteria.

##### **Criteria:**

Minimum 3.0 overall GPA with a grade of B- or better in Calculus I **OR**

Minimum 2.75 overall GPA **AND** a minimum 2.5 GPA (based on most recent course attempts) in Calculus I, Calculus II, and Calculus-based Physics I with corresponding lab, with a grade of C- or better in each course.

---

**Admission to Pre-Engineering:**

Students who do not meet the criteria for direct admission to a major will be considered for admission to Pre-Engineering **with a major interest. Bioengineering students will be Pre-Engineering Bioengineering-Interest (KPEN) students at the time of admissions.**

**Criteria:**

Minimum 2.5 overall GPA

Completion of at least one of the following courses with a grade of C or better: College Algebra, College Trigonometry, Pre-Calculus, Calculus I, or Calculus II

**Admission to CLAS-Undeclared**

Transfer students who do not meet the criteria for direct admission to a major or Pre-Engineering, but otherwise meet the University's admission criteria, will be admitted to CLAS as an undeclared major, or in the case of an IUT, remain in their current CU Denver school or college.

**International Admissions**

Prospective international students should also visit the Office of International Affairs at <https://www.ucdenver.edu/international-admissions> for more information.

**Change of Major within the College of Engineering, Design and Computing**

Students currently enrolled in another major within the College of Engineering, Design and Computing, may submit a change of major form to the Undergraduate Program Manager.

**Transfer Credit Evaluation**

The Department of Bioengineering will adhere to the University of Colorado Denver's policies and articulation agreements when reviewing transfer credit.

At this time, there are no courses taught in the Colorado Community College system that are equivalent to the lower-division bioengineering courses (*ENGR 1200, BIOE 1020, 2010, 2020*). These, and all other upper-division bioengineering courses, must be completed at CU Denver.

Upon a student's admission to CU Denver, the Registrar will review transcripts from other institutions for credit and initial course equivalencies. Once credit is awarded and at the student's request, the CU Denver home department may also review transfer credit for course equivalencies (for example the Biology department may review a Biology course). Students should speak with the Bioengineering's Undergraduate Program Manager for more information. The Bioengineering Undergraduate Affairs Committee will make final decisions regarding transfer credit applicability toward all degree requirements.

---

## **Requirements for a BS in Bioengineering**

---

The BS in Bioengineering will provide students a rigorous multi-disciplinary education through a curriculum that integrates the three foundational disciplines of bioengineering:

1. Engineering, Science, and Math
2. Biological, Chemical, and Physical Sciences
3. Clinical Medicine

Graduates of this program are expected to become leaders and innovators in the bioengineering profession.

The BS in Bioengineering is granted upon successful completion of a minimum of 128 semester hours to include the following requirements:

1. CU Denver Core Curriculum Requirements
2. MATH, BIOL, CHEM, PHYS, ENGR/BIOE lower-division Requirements (Downtown Campus)
3. Upper-division Major Requirements (Anschutz Medical Campus)
4. Technical Electives

Students are highly encouraged to track their progress using the Degree Audit (found via UCD Access). Questions, concerns or discrepancies on the audit should be brought to the immediate attention of the Undergraduate Program Manager. Note that the Degree Audit is meant to serve as an advising guide; requirement completion will be confirmed prior to degree conferral.

### **CU Denver Core Curriculum Requirements**

The University of Colorado Denver faculty has established a core curriculum for undergraduate students. Bioengineering students must satisfy the College of Engineering, Design and Computing's Core Curriculum Requirements by taking 8 courses (24 credits) distinct from Math and Science. These courses will be selected from the Intellectual Competencies, Knowledge, International Perspectives, and Cultural Diversity Areas found in the [CU Denver Catalog](#).

*While students are not required to have completed their CU Denver Core Curriculum, it is highly recommended that students satisfy the majority of these requirements prior to beginning upper-division coursework. At this time, CU Denver Core Curriculum courses are not taught at [AMC](#).*

### **Downtown Denver Campus (DDC) Requirements**

Students will complete all MATH, BIOL, CHEM, PHYS and ENGR/BIOE lower-division courses prior taking upper-division coursework in the department. Credit for some coursework may be achieved through Advanced Placement (AP) and International Baccalaureate (IB) coursework and exams or transferred from other institutions. However, it is important that students intending to use AP, IB or transfer credit toward these requirements speak with the Undergraduate Program Manager before moving forward. In some cases, it may be beneficial for students (i.e. those intending to apply to medical school) to re-take certain courses in the college setting. Please contact the Undergraduate Program Manager for additional information about how CU Denver awards credit for Advanced Placement (AP) and International Baccalaureate (IB) coursework.

---

### **Required Courses on the Downtown Denver Campus (DDC)**

All courses must be completed with a C- or higher prior to taking Upper-Division BIOE courses at the Anschutz Medical Campus.

#### **Mathematics (16 credit hours)**

MATH 1401: Calculus I

MATH 2411: Calculus II

MATH 2421: Calculus III

MATH 3195: Linear Algebra and Differential Equations

*\*MATH 3191 (Applied Linear Algebra) **AND** MATH 3200 (Elementary Differential Equations) may substitute for MATH 3195.*

#### **Biology (8 credit hours)\***

BIOL 2010/2011: Organisms to Ecosystems with Lab

BIOL 2020/2021: Molecules and Cells with Lab

*\*CU Denver's Biology Honors Sequence may also be used toward these requirements.  
Please see the Biology department for placement information.*

#### **Chemistry (14 credit hours)\***

CHEM 2031: General Chemistry I

CHEM 2038: General Chemistry Lab I

CHEM 2061: General Chemistry II

CHEM 2068: General Chemistry Lab II

CHEM 3411: Organic Chemistry I

CHEM 3418: Organic Chemistry Laboratory I

*\*CU Denver's Chemistry Honors Sequence may also be used toward these requirements.  
Please see the Chemistry department for placement information.*

#### **Physics (10 credit hours)**

PHYS 2311: General Physics I (calculus-based)

PHYS 2321: General Physics I Laboratory

PHYS 2331: General Physics II (calculus-based)

PHYS 2341: General Physics Laboratory II

#### **Bioengineering (10 credit hours)**

ENGR 1200: Fundamentals of Engineering Design and Innovation

BIOE 1020: Bioengineering Prototyping and Design II

BIOE 2010: Introduction to Programming for Bioengineers

BIOE 2020: Introduction to Computational Methods for Bioengineers

## Downtown Campus Sample Plan

---

<b>FALL I</b>	<b>SPRING I</b>	<b>FALL II</b>	<b>SPRING II</b>
MATH 1401	MATH 2411	MATH 2421	MATH 3195
BIOL 2010	BIOL 2020	CHEM 3411	PHYS 2331
BIOL 2011	BIOL 2021	CHEM 3418	PHYS 2341
CHEM 2031	CHEM 2061	PHYS 2311	BIOE 2020
CHEM 2038	CHEM 2068	PHYS 2321	
ENGR 1200	BIOE 1020	BIOE 2010	

The above plan is an example of how bioengineering majors can complete coursework on the downtown campus. Please review the following notes for additional considerations.

### *Notes regarding the Sample Plan*

1. This plan does not include the CU Denver Core Curriculum, upper-division major or track elective requirements.

2. Though it is not required that they have completed their CU Denver Core Curriculum requirements when applying to the major, it is highly recommended that the majority of the CU Denver Core Curriculum is complete before students take upper-division bioengineering courses at the Anschutz Medical Campus. CU Denver Core Curriculum courses are not offered at Anschutz.

3. ENGR 1200 and BIOE 2010 are only taught in the Fall term. BIOE 1020 and 2020 are only taught in the Spring term.

4. Students may not register for MATH 1401 (Calculus I) without having first met the prerequisite and/or taking the ALEKS Assessment. Newly admitted students should reach out to the Undergraduate Program Manager to discuss math placement.

5. Students that do not place into Calculus I in the first semester will need to take math during the summer terms in order to meet prerequisites for the Anschutz Medical Campus in a timely fashion.

6. Those wishing to maintain a lighter course-load are encouraged to take courses during the summer. Many of the math, science and CU Denver Core Curriculum courses are taught during the summer term.

7. Once students have been admitted to full-major status, they will work with their faculty advisor and the Undergraduate Program Manager to design a plan to complete the degree.

---

## Upper-division Major Requirements

Bioengineering majors will take 34 credit hours of required upper-division coursework on the Anschutz Medical Campus. These courses include:

BIOE 3010: Bioinstrumentation  
BIOE 3020: Introduction to Biomechanical Analysis  
BIOE 3030: Introduction to Biomaterials  
BIOE 3040: Physiology for Bioengineering  
BIOE 3050: Cell and Molecular Bioengineering  
BIOE 3051: Cell and Molecular Bioengineering Lab  
BIOE 3060: Biostatistics  
BIOE 3070: Bioengineering Lab I  
BIOE 3071: Bioengineering Lab II  
BIOE 3090: Introduction to BioDesign  
BIOE 4035: BioDesign II  
BIOE 4045: BioDesign III

Upper-division courses will be taught at the Anschutz Medical Campus and will culminate in a Senior Design Project

## Technical Electives

In addition to the required upper-division courses, all Bioengineering students must meet the Technical Electives requirement. The goal of the Technical Electives are to provide students with more advanced understanding of specialized areas in bioengineering. Students must take a minimum of 12 credit hours to meet the bioengineering technical elective requirements. All 12 credits of Technical Electives must be upper-division (3000 or 4000-level). Students are eligible to take one approved non-Bioengineering technical elective or petition to have a second non-Bioengineering technical elective. **Please speak with the Undergraduate Program Manager about the approved technical electives and the semesters those courses will be taught.**

## BS/MS Program

Students interested in continuing their bioengineering studies may apply for the BS/MS program the spring semester before their senior year. The BS/MS program allows students to take six credit hours of graduate coursework during their senior year, and apply it towards their bioengineering technical electives and their CU Denver BIOE master's degree. Students must have a minimum cumulative GPA of 3.2 in order to apply. For more information regarding requirements and the application process, students need to meet with both the Undergraduate Program Manager and the Graduate Program Manager.

## **Academic Policies**

---

### **Prerequisites**

A prerequisite is any course that must be completed prior to taking a subsequent course. The College of Engineering, Design and Computing requires that all students receive a C- or higher in engineering courses to move on to the next level. Students must repeat a prerequisite course in which a grade of D+ or lower was earned before moving on to the subsequent course. If students do not receive a C- or higher in an engineering class on the second attempt, they must obtain written approval from their major department to enroll in the course for a third time.

### **Academic Performance**

The Department of Bioengineering will adhere to University probation and suspension policies. For more information regarding these policies, visit <https://catalog.ucdenver.edu/cu-denver/graduate/graduate-school-policies-procedures/academic-probation-suspension-policies/>

### **Academic Expectations of the Bioengineering Major**

Bioengineering students must maintain a CU Denver cumulative GPA of a 2.0 and a 2.0 average GPA in all required coursework and all courses taken within the Department of Bioengineering.

In addition to remaining in good academic standing at the University of Colorado Denver, bioengineering majors should receive no less than C- or above in all downtown coursework.

### **Attendance Regulations**

Successful work in the College of Engineering, Design and Computing is dependent upon regular attendance in all classes. Students should always refer to their course syllabi for individual instructors' policies regarding attendance and missed work.

### **Repeat and Withdrawal Policies**

Undergraduate students may not register for credit in a course in which they have already received a grade of C- or higher. Students who receive an F grade in a required course must retake and satisfactorily complete the course. Students must repeat a prerequisite course to another required course in which a grade of D+ or lower was earned before moving on to the subsequent course. If students do not receive a C- or higher in an engineering class on the second attempt, they must obtain written approval from their major department to enroll for the course for the third time. Re-enrollment approval will be subject to the discretion of the CEDC.

## **Preparation for Graduation – BS Bioengineering**

---

To become eligible for a Bachelor of Science (BS) in Bioengineering in the College of Engineering, Design and Computing, a student, in addition to being in good standing in the university, must meet the following minimum requirements:

- **Courses:** The prescribed and elective work in the curriculum as determined by the bioengineering department must be completed satisfactorily.
- **Hours:** A minimum of 128 semester hours.
- **Hours in Residence:** At least 30 semester hours of coursework applicable to a Bachelor of Science degree in engineering must be taken at CU Denver while a declared student in good standing at the College of Engineering, Design and Computing. Students must be enrolled in the college for at least the final two semesters of the degree prior to graduation.
- **Transfer Credit:** All requests for consideration of transfer credit and its application toward a degree in Engineering and Applied Science must be submitted prior to the student's last two semesters at the Denver campus.
- **Grade Point Average (GPA):**
  1. Students must maintain a minimum 2.0 cumulative GPA in all hours attempted at the University of Colorado (all campuses), AND
  2. Students must maintain a minimum 2.0 cumulative GPA in all hours attempted at the University of Colorado (all campuses) in engineering, math, physics, chemistry, and biology.
- **Faculty Recommendation:** The recommendation of the faculty of the department offering the degree and the approval of the faculty of the College of Engineering, Design and Computing is required.
- **Incompletes and Correspondence Courses:** It is the student's responsibility to ensure that all incompletes and correspondence courses are officially completed before the 10th week of the student's final semester in school.
- **Simultaneous Conferring of Degrees:** For any double degree program, both bachelor's degrees must be conferred at the same commencement.
- **Commencement Exercises:** Commencement exercises are held in December and May. A student finishing in August is encouraged to attend commencement the following December.
- **Applying for Graduation:** Students must apply online for graduation. Information regarding this process will be distributed by the College of Engineering, Design and Computing. Students must adhere to application deadlines. If students have questions about this process, please contact the Undergraduate Program Manager.
- **Commencement Ceremony:** All bioengineering undergraduate students will take part in the commencement ceremony on the downtown campus alongside the rest of the College of Engineering, Design and Computing students.

## **Undergraduate Student Support**

---

The Department of Bioengineering's faculty and staff are committed to student success both in and out of the classroom and as such welcome student feedback.

### **Bioengineering Undergraduate Affairs Committee**

The Bioengineering Undergraduate Affairs Committee (BUAC) is responsible for developing undergraduate procedures within the Department of Bioengineering. Students may speak with the undergraduate advisor regarding the BUAC's agenda.

### **Student Services**

The Department of Bioengineering is committed to providing excellent and personalized undergraduate advising and student support. The role of the Student Services is to:

- Assist students in identifying their short and long-term academic and career goals and create an educational plan that supports those goals.
- Facilitate appropriate course selection and registration.
- Help students navigate the dual-campus environment and refer to appropriate resources as needed.
- Facilitate faculty, student, industry and community networking opportunities.
- Help students engage in department and university-wide undergraduate experiences that will enhance their in-classroom work.
- Create "high-impact" out-of-classroom activities to support student engagement and success.

In addition to working with Bioengineering Student Services, students are encouraged to consult with faculty and academic mentors to develop academic and career plans that meet their personal goals.

### **Academic Mentoring**

The Department of Bioengineering makes a concerted effort to ensure that the undergraduate student body has the support and guidance they need to reach their academic potential. To this end, the majority of undergraduate courses have accomplished Teaching Assistants who help faculty with grading and instruction and provide guidance and mentorship to enrolled students. In addition, mentoring opportunities exist in various labs and other settings.

Every undergraduate is assigned a Faculty Mentor and should meet with their Faculty Mentor each semester. If you haven't heard from your mentor or are not sure who your mentor is, please contact the Undergraduate Program Manager who can connect you.

### **Internships and Career Planning**

The Department of Bioengineering strongly encourages students to participate in internships during their course of study. CU Denver's Experiential Learning Center is available to support such efforts, offering students workshops and activities to prepare them for both the job search and 'on the job' experiences. In addition, the Department of Bioengineering is actively developing partnerships with local and national industry professionals, in an effort to create a network of internship and

mentoring opportunities for undergraduates. Students interested in pursuing internships should begin a conversation with the Undergraduate Program Manager early in their college career.

---

### **Research Opportunities**

Students interested in research experience should consider applying to the University of Colorado Denver's Office of Undergraduate Research and Creative Activities (URCA). The Department of Bioengineering faculty is highly supportive of students applying for URCA and welcome student requests for mentorship and advising. Interested students should speak with the Undergraduate Program Manager for more information. Find more information on URCA here: <https://www.ucdenver.edu/lynxconnect/undergraduate-research>

## Directory of Services

### **Anschutz Medical Campus Badging Office**

Phone: 303.724.0399 · Email: security.badgeoffice@cuanschutz.edu · Office: Fitzsimons Building First Floor

*Go to for:* badge replacements, badge holders

### **Anschutz Medical Campus Parking Office**

Phone: 303.724.0399 · Email: security.badgeoffice@cuanschutz.edu · Office: Fitzsimons Building First Floor

*Go to for:* parking permits, parking tickets, RTD pass questions

### **Anschutz Medical Campus University Police Department**

Phone: 303.724.4444 (police dispatch or non-emergencies) or 911 · Office: Bldg. U-09, 12454 E. 19<sup>th</sup> Place

*Go to for:* campus security, lock-out problems

### **CARE Team**

Phone: 303.315.7306 (Denver) 303.724.2866 (Anschutz)

*Go to for:* health and safety concerns

### **Graduate Student Progress Coordinator**

Phone: 303.315.0074 · Email: stephanie.puello@cuanschutz.edu · Office: 1380 Lawrence Street, Denver CO 80204

*Go to for:* graduate school logistics (e.g. application for admission to candidacy, request exam, transfer credits, transfer programs)

### **Student Health Insurance Office**

Phone: 303.724.7674 · Email: CUAnschutzStudentInsurance@ucdenver.edu · Office: Ed 2 North 3213

*Go to for:* all things student health insurance

### **Office of Campus Student Services, Anschutz Medical Campus**

Phone: 303.724.2866 · Office: Ed 2 North 3123

*Go to for:* student housing

### **Student Mental Health Service**

Phone: 303.724.4716 (M-F); 720.848.0000 (On-call psychiatrist for emergencies)

*Go to for:* Identify yourself as a student so that you get routed properly

## Department Directory

### Bioengineering Staff

---

**Karen Gilbert, Grants Manager**

Phone: 303.724.7296 · Email: [karen.gilbert@cuanschutz.edu](mailto:karen.gilbert@cuanschutz.edu) · Office: Y18-1007

*Go to for:* Routing your grant, grants information

**Kate Hoch, Director of Finance and Administration**

Phone: 303.724.6280 · Email: [kate.hoch@cuanschutz.edu](mailto:kate.hoch@cuanschutz.edu) · Office: Y18-1307D

*Go to for:* budget, spending, human resources, faculty concerns, concerns with faculty

**Natalie Kersten, Graduate Program Manager**

Phone: 303.724.9972 · Email: [natalie.kersten@cuanschutz.edu](mailto:natalie.kersten@cuanschutz.edu) · Office: Y18-1307B

*Go to for:* all things graduate program, marketing ideas, social media, AMC badges

**Shaun Boulier, Undergraduate Program Manager**

DC Phone: 303.556.5838 · Email: [shaun.boulier@cuanschutz.edu](mailto:shaun.boulier@cuanschutz.edu) · DC Office: North Classroom 2516B

*Go to for:* undergraduate admissions and curriculum information, advising, student services, support for undergraduates, DDC badges, FCQs

### Bioengineering Faculty

---

**Dr. Robin Shandas, Distinguished Professor, Department Chair & Program Director**

Phone: 303.724.4196 · Email: [robin.shandas@cuanschutz.edu](mailto:robin.shandas@cuanschutz.edu) · Office: Y18-1307K

*Go to for:* director approval, feedback on program, significant grievances

**Dr. Richard KP Benninger, Associate Professor**

Phone: 303.724.6388 · Email: [richard.benninger@cuanschutz.edu](mailto:richard.benninger@cuanschutz.edu) · Office: Barbara Davis Center 4306-D

*Go to for:* imaging questions, tech questions, diabetes questions, rotation questions, curriculum concerns

**Dr. Cathy Bodine, Associate Professor**

Phone: 303.315.1281 · Email: [cathy.bodine@cuanschutz.edu](mailto:cathy.bodine@cuanschutz.edu) · Office: Assistive Technology Partners 601 East 18<sup>th</sup> Avenue, Suit 130, Denver CO 80203

*Go to for:* assistive technology questions, rehabilitation questions

**Dr. Emily Gibson, Associate Professor**

Phone: 303.724.3678 · Email: [emily.gibson@cuanschutz.edu](mailto:emily.gibson@cuanschutz.edu) · Office: RC2 8112

*Go to for:* quantitative questions, imaging questions, cellular biophysics questions

---

**Cassandra (Casey) Howard, Instructor and Director of External Relations**

Phone: 303-724-9385 · Email: [Cassandra.howard@cuanschutz.edu](mailto:Cassandra.howard@cuanschutz.edu) · Office: Y18-1307P

*Go to for:* International service questions, design questions, industry questions

**Dr. Kendall Hunter, Associate Professor**

Phone: 303.724.4197 · Email: [kendall.hunter@cuanschutz.edu](mailto:kendall.hunter@cuanschutz.edu) · Office: RC2 6018

*Go to for:* quantitative modeling questions, admissions questions

**Dr. Jeffrey Jacot, Associate Professor**

Phone: 303-724-8696 · Email: [jeffrey.jacot@cuanschutz.edu](mailto:jeffrey.jacot@cuanschutz.edu) · Office: Y18-1307M

*Go to for:* tissue engineering questions, department seminars, admissions questions

**Dr. Steve Lammers, Instructor**

Phone: 303-724-9549 Email: [steven.lammers@cuanschutz.edu](mailto:steven.lammers@cuanschutz.edu) Office: Y18 1307G

*Go to Steve for:* Bioprinting questions, design project questions

**Dr. Chelsea Magin, Assistant Professor**

Phone: 303.724.3344 · Email: [chelsea.magin@cuanschutz.edu](mailto:chelsea.magin@cuanschutz.edu) · Office: [Bioscience 3, 3-10-127](#)

*Go to for:* regulatory affairs questions, [biomaterials questions](#), pulmonary engineering questions

**Dr. Keith Neeves, Professor**

Phone: 303.724.3344 · Email: [keith.neeves@cuanschutz.edu](mailto:keith.neeves@cuanschutz.edu) · Office: RC2 Room 9006

*Go to for:* hematology questions, oncology questions

**Dr. Daewon Park, Associate Professor**

Phone: 303.724.6947 · Email: [daewon.park@cuanschutz.edu](mailto:daewon.park@cuanschutz.edu) · Office: RC1 North 4118

*Go to for:* polymer questions, drug delivery questions, Graduate Committee questions

**Dr. Brisa Pena-Castellanos, Research Assistant Professor**

Phone: 303-724-1113 · Email: [brisa.penacastellanos@cuanschutz.edu](mailto:brisa.penacastellanos@cuanschutz.edu) · Office: BS3, #121

*Go to for:* Material Science, Atomic Force Microscopy, Cardiac Tissue Engineering and miRNA delivery.

**Dr. Bradford Smith, Assistant Professor**

Phone: 303.724.0137 · Email: [bradford.smith@cuanschutz.edu](mailto:bradford.smith@cuanschutz.edu) · Office: RC2 6015

*Go to for:* pulmonary questions, independent study and research project questions

**Dr. Richard Weir, Associate Research Professor**

Cell: 847.912.1032 · Email: [richard.weir@cuanschutz.edu](mailto:richard.weir@cuanschutz.edu) · Office: Y18-1307H

*Go to for:* prosthetic questions, 3D printing questions