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Welcome to Engineering Plus!

We’re glad you’re joining the innovative Engineering Plus program at the University of Colorado Boulder! We look forward to helping you explore the many opportunities available to you by partnering together and aligning your interests and career aspirations with our curriculum.

In Engineering Plus, you take core engineering courses, select an e+ emphasis (in Aerospace, Architectural, Civil, Electrical, Environmental, and Mechanical engineering), plus choose a customizable e+ concentration either within or external to engineering. Your selected e+ emphasis establishes a disciplinary foundation in your engineering degree, while your chosen e+ concentration allows you to explore an additional passion and prepares you for a broad range of career opportunities post-graduation.

As an Engineering Plus student, you can essentially design-your-own degree with the amount of flexibility and choice woven throughout. You will earn a hands-on, design-based engineering degree which equips you with the necessary skills for careers, graduate school, and professional programs beyond CU-Boulder.

This Academic Advising Guide provides curriculum options and requirements, opportunities to enhance and personalize your academic experience, frequently used campus resources, and FAQ’s for students. As an Engineering Plus student, it’s important you read and understand the information outlined in this guide to make the most of your undergraduate engineering degree.

e+ Mission and Vision

Engineering Plus offers a Bachelor of Science degree that prepares students for a broad range of exciting professional careers and for graduate study in a wide variety of disciplines. This degree program provides a pathway through engineering for students interested in interdisciplinary, hands-on engineering design.

**e+ Mission Statement**

Engineering Plus at CU-Boulder offers undergraduate students a high-quality, technical education through design-rich engineering curriculum. A degree in Engineering Plus prepares students for careers in a broad range of industries, technical disciplines, teaching, professional degrees or graduate study. Engineering Plus provides this by nourishing and maintaining a professional environment in which excellence in teaching, learning, innovation, and creativity are of central importance.

**e+ Objectives and Outcomes**

**Program Objectives**

Engineering Plus prepares its graduates to make significant contributions in many diverse areas. Specifically, within five years of graduation, our graduates will achieve one or more of the following attributes:

- be established in a professional career, receive a graduate or professional degree, or be enrolled in a graduate or professional degree program
- be an established secondary science or math teacher, utilizing hands-on engineering design content in their curriculum
- play significant roles in an engineering or technical enterprise, including research and development of engineering systems and products, technical sales, technical training and organizational education
- achieve professional standing based on their accumulated technical accomplishments and expertise to remain globally competitive
- demonstrate professional and personal leadership and growth
Program Outcomes
An undergraduate degree in Engineering Plus prepares students to meet the following outcomes upon graduation:

- ability to identify, formulate and solve engineering problems
- understanding of the impact of engineering solutions in a global, economic, environmental and societal context
- technical understanding of techniques, skills, and modern engineering tools necessary for engineering practice
- ability to design a system, component or process to meet needs within constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability
- knowledge in a specified e+ concentration that is a meaningful contribution to your selected disciplinary emphasis
- applicable knowledge of engineering, science and mathematics
- ability to function on multidisciplinary teams
- an understanding of professional and ethical responsibility
- effective communication skills
- ability to design and conduct experiments, as well as analyze and interpret data
- recognition for the need and ability to engage in life-long learning
- knowledge of contemporary issues in engineering and technology

Academic Advising Information
In Engineering Plus, academic advising is a collaborative process where you are ultimately responsible for your academic experience. Through this collaborative process you will work with your academic advisor to set goals, address questions and check your academic progress. With over 100 e+ degree combinations, it’s important to regularly meet and check-in with your advisor because curriculum and course listings may change. In order for your academic advising experience to be as successful and comprehensive as possible, it is important to fulfill the responsibilities below.

Your Responsibilities as a Student

- Check your @colorado.edu email account regularly for important information from your advisor and institution
- Schedule ALL appointments with your advisor through colorado.edu/mycuhub
- Arrive on time to your advising appointments
- Cancel and reschedule appointments through the MyCUHub system
- Learn the policies of the College of Engineering and Applied Science and CU-Boulder
- Be aware of academic deadlines and the academic calendar, such as the Last Day to Drop
- Arrive to advising appointments with a list of courses you’re wanting to take next semester or specific questions you want to ask
- Take responsibility for the impact of your decisions or actions
- Ask questions if something is unclear
- Be open to setting new goals and exploring personal values

Your Academic Advisor’s Responsibilities

- Collaborate with you in course selection and academic progression
- Actively listen to your concerns and questions
• Provide you with accurate curriculum requirement information
• Communicate academic policies and procedures
• Be accessible for posted office hours and appointments
• Respond in a timely manner to emails sent from your @colorado.edu address
• Provide a safe space where you can express concerns and challenges
• Align the Engineering Plus curriculum with your interests, values and career goals
• Provide sources of information for referrals to campus resources (academic support, counseling and psychological services, career services, international opportunities, LGBTQI services, etc)

Frequently Needed Advising Information

You will hear and become accustom to these terms and processes as a student at the University of Colorado Boulder. It’s important to understand what each term means as they impact registration and will be mentioned by your academic advisor and institutional agents.

**Matriculation:** The date you were first enrolled at CU-Boulder is your matriculation date. This is important because you will follow the catalog and course requirements starting from your matriculation date for your entire college career at CU-Boulder.

**Holds on Records:** Engineering Plus automatically places a hold on your records each semester to ensure you meet with your academic advisor prior to registering for classes. Once you’ve met with your advisor, the hold will be lifted from your record and you’ll be able to register for classes. A Scholastic, Dean’s, Financial, or Health hold may be placed on your record for a number of reasons. A hold prevents you from registering, returning to school, obtaining an official transcript, or receiving a diploma. You should resolve each hold as quickly as possible by contacting the campus office that placed it. General inquiries may be addressed to the Office of the Registrar.

**Prerequisites:** Prerequisite courses are courses that must be taken prior to taking some advanced courses or the next course in a sequence.

**Co-requisites:** Co-requisite courses are courses that must either have been taken or are being taken concurrently (at the same time) with other courses.

**Drop/Add Deadlines:** You have 10 weeks to drop a class by going to your myCUinfo portal. You have about a week to add a course without instructor’s approval. Please see the current drop/add deadlines at: [colorado.edu/registrar/students/academic-calendar](http://colorado.edu/registrar/students/academic-calendar)

**Petitions:** Petitions may be needed for courses taken outside of CU-Boulder, if you drop below full-time student status, to drop or add a course after the University deadline and for any other college or university policy and procedure. It’s important to consult and work with your advisor throughout the petition process.

**Graduation:** After speaking with your academic advisor and upon completion of requirements for a B.S. degree in Engineering Plus, a student may apply for graduation. Graduation requires a minimum of 128 semester credit hours and a grade point average (GPA) of 2.25 or higher. It’s important to check your degree audit and refer to your academic advisor with any questions about your graduation requirements. e+ students must also receive a C or higher on all e+ curriculum courses (for students who matriculated in the fall 2016 and after). Engineering Plus also requires students who entered the program in fall of 2016 and after to take the Fundamentals of Engineering (FE) exam, prior to graduation.
AP/IB Credits
If you have completed AP/IB exams, check how your AP and IB scores may earn you college credit by reviewing the charts posted by the Admissions Office at: colorado.edu/admissions/undergraduate/apply/freshman/credit

If you have additional questions or would like more information, contact the Admissions Office Transfer Credit Unit at tchelp@colorado.edu or 303.492.6301.

Engineering Plus Curriculum

A B.S. degree in Engineering Plus requires the satisfactory completion of foundational coursework, core engineering courses, your selected disciplinary e+ emphasis and your chosen e+ concentration. This entails a minimum of 128 credit hours as follows:

- **Foundational coursework:** 46-48 credits
- **Engineering core:** 28-35 credits
- **e+ emphasis:** 19-28 credits
- **e+ concentration:** 12-15 credits (except CU Teach Engineering which requires 26 credits plus subject matter courses, as required)

**Foundational coursework** – Foundational coursework is common to all Engineering Plus majors. All foundational courses require a minimum grade of C in each course.

**Math requirement** (16 credits) – Completion of three semesters of Calculus (APPM 1350, 1360, and 2350), and Differential Equations (APPM 2360).

**Science requirement** (12-14 credits) – Completion of PHYS 1110, 1120 and 1140. Completion of at least 4 additional credits of Physics, Chemistry or Biology, chosen from one of the following: PHYS 2130; PHYS 2170; MCEN 1024; CHEM 1113 and 1114; CHEN 1211 and CHEM 1221; CHEM 1251; CHEM 1351; EBI 1210 and 1220; EBI 1230 and 1240; MCDB 1150 and 1151; or MCEN 2150 and 2151.

**H&SS Requirement** (18 credits) – The general bachelor’s degree requirements of the College of Engineering and Applied Science require 18 credit hours of social science/humanities/writing electives. See details at engineering.colorado.edu/hss

**Engineering core** – The engineering core is common to all Engineering Plus majors. Core courses require a minimum grade of C in each course. Course titles within your e+ emphasis may vary, so check your e+ emphasis for discipline-specific core courses:

- **Computing experience** – CSCI 1300, CSCI 1320, CHEN 1310 or ECEN 1310
- **Statics** – GEEN 2851, ASEN 2001, CVEN 2121 or MCEN 2023
- **Thermodynamics** – GEEN 3852, ASEN 2002, AREN 2110 or MCEN 3012
- **Materials Science** – ASEN 1022, CVEN 3161 or MCEN 2024
- **Basic Electronics** – ASEN 3300 or ECEN 3010
- **Processes for Taking and Analyzing Measurement Data** – ASEN 2012 (with ASEN 2001 and 2002); CVEN 3227; or MCEN 3047
- **Hands-on Design Courses** – GEEN 1400, GEEN 2400 and GEEN 3400
- **Introduction to Engineering** – COEN 1500 or MCEN 2000
Emphasis Requirements
Your e+ emphasis coursework depends on your chosen emphasis. All courses for each emphasis require a minimum grade of C. Detailed curricula for each e+ emphasis are listed below:

Aerospace Engineering Emphasis

Required Aerospace Engineering Core courses (34):

- ASEN 1022: Material Science for Aerospace Engineers (3)
- CSCI 1320: Computer Science 1: Starting Computing Engineering Applications (4)
- GEEN 1400: First-Year Engineering Projects (3)
- ASEN 2001: Introduction to Statics, Structures, and Materials (4)
- ASEN 2002: Introduction to Thermodynamics and Aerodynamics (4)
- ASEN 2012: Experimental and Computational Methods in AES (2)
- GEEN 2400: Engineering for the Community (3)
- ASEN 3113: Thermodynamics and Heat Transfer (4)
- ASEN 3300: Electronics and Communications (4)
- GEEN 3400: Invention and Innovation (3)

Required Aerospace Emphasis courses (22):

- ASEN 2003: Introduction to Dynamics and Systems (5)
- ASEN 2004: Aerospace Vehicle Design and Performance (5)

Plus, students select one course from the four options below (4):

- ASEN 3111: Aerodynamics (4)
- ASEN 3112: Structures (4)
- ASEN 3128: Aircraft Dynamics (4)
- ASEN 3200: Orbital Mechanics/Attitude Determination and Control (4)

And, Capstone Design is required (8):

- ASEN 4018: Senior Projects 1, Design Synthesis (4)
- ASEN 4028: Senior Projects 2, Design Practicum (4)

Students seeking to enroll in ASEN courses must register through an Aerospace advisor.

Architectural Engineering Emphasis

Required Architectural Engineering Core courses (29):

- CHEN 1310: Introduction to Engineering Computing (3)
- GEEN 1400: First-Year Engineering Projects (3)
- GEEN 2400: Engineering for the Community (3)
- GEEN 2851: Statics for Engineers (3) or CVEN 2121 Analytical Mechanics I (3)
- ECEN 3010: Circuits and Basic Electronics (3)
- CVEN 3161: Mechanics of Materials I (3)
- CVEN 3227: Probability, Statistics and Decision (3)
- GEEN 3400: Invention and Innovation (3)
- GEEN 3852: Thermodynamics for Engineers (3) or AREN 2110: Thermodynamics (3)

Required Architectural Emphasis courses (28):

...
• AREN 1027: Engineering Drawing (3)
• CVEN 2012: Introduction to Geomatics (3)
• AREN 2050: Engineering Systems for Buildings (3)

Plus, students select a focus (three courses) from the options below (9):

• Electrical/Lighting – AREN 3540: Illumination 1 (3); AREN 4550: Illumination 2 (3); AREN 4570: Building Electrical Systems Design 1 (3)
• Mechanical Systems – AREN 2120: Fluid Mechanics & Heat Transfer (3); AREN 3010: Mechanical Systems for Buildings (3); AREN 4110: HVAC Design I (3)
• Construction – CVEN 3246: Introduction to Construction (3); AREN 4506: Project Management 1 (3); AREN 4606: Project Management 2 (3)
• Structures – CVEN 3525: Structural Analysis (3); CVEN 4545: Steel Design (3); CVEN 4555: Reinforced Concrete Design (3)

And, Capstone Design is required (10):

• ARCH 4010: Architectural Appreciation and Design (5)
• AREN 4317: Architectural Engineering Design (5)

e+ students with an Architectural Emphasis are required to take the Fundamentals of Engineering (FE) exam when they are within 32 credit hours of graduation.

Civil Engineering Emphasis

Required Civil Engineering Core courses (30):

• CHEN 1310: Introduction to Engineering Computing (3)
• GEEN 1400: First-Year Engineering Projects (3)
• GEEN 2400: Engineering for the Community (3)
• GEEN 2851: Statics for Engineers (3) or CVEN 2121: Analytical Mechanics I (3)
• ECEN 3010: Circuits and Basic Electronics (3)
• CVEN 3161: Mechanics of Materials I (3)
• CVEN 3227: Probability, Statistics and Decision (3)
• GEEN 3400: Invention and Innovation (3)
• GEEN 3852: Thermodynamics for Engineers (3) or AREN 2110: Thermodynamics (3)

Select one:

• CVEN 3323: Hydraulic Engineering (3)
• CVEN 3708: Geotechnical Engineering I (3)

Required Civil Emphasis courses (19):

• CVEN 3313: Theoretical Fluid Mechanics (3)

And, students select two courses from the list below (6):

* cannot double count Hydraulics or Geotechnical Engineering I from above

• CVEN 3525: Structural Analysis (3)
• CVEN 3246: Introduction to Construction (3)
• CVEN 3414: Fundamentals of Environmental Engineering (3)
• CVEN 3323: Hydraulic Engineering (3) *
• CVEN 3708: Geotechnical Engineering I (3) *

Plus, students select a focus (two courses) from the options below (6):

• **Environmental** – CVEN 3424: Water and Wastewater Treatment (3); CVEN 4474: Hazardous & Industrial Waste Management (3)
• **Water Resources** – CVEN 4333: Engineering Hydrology (3); CVEN 4353: Groundwater Engineering (3)
• **Geotechnical** – CVEN 3718: Geotechnical Engineering 2 (3); CVEN 4728: Foundation Engineering (3)
• **Construction** – CVEN 3256: Construction Equipment and Methods (3); AREN 4506: Project Management 1 (3)
• **Structures** – CVEN 4545: Steel Design (3); CVEN 4555: Reinforced Concrete Design (3)

And, **Capstone Design** is required (4):

• CVEN 4899: Civil Engineering Senior Project Design (4)

e+ students with a Civil Emphasis are required to take the Fundamentals of Engineering (FE) exam when they are within 32 credit hours of graduation.

**Electrical Engineering Emphasis**

**Required Electrical engineering core courses (32):**

• ECEN 1310: C Programming for EE/ECE (4)
• ECEN 1400: Introduction to Digital and Analog Electronics (3)
• MCEN 2024: Materials Science (3)
• ECEN 2250: Introduction to Circuits and Electronics (3)
• ECEN 2270: Electronics Design Lab (3)
• GEEN 2400: Engineering for the Community (3)
• GEEN 2851: Statics for Engineers (3)
• MCEN 3047: Data Analysis and Experimental Methods (4)
• GEEN 3400: Invention and Innovation (3)
• GEEN 3852: Thermodynamics for Engineers (3)

**Required Electrical Emphasis courses (21):**

• ECEN 2260: Circuits as Systems (3)
• ECEN 2350: Digital Logic (3)

And, students select three of the five courses below (9):

• ECEN 3250: Microelectronics (3)
• ECEN 3300: Linear Systems (3)
• ECEN 3350: Programming of Digital Systems (3)
• ECEN 3360: Digital Design Laboratory (3)
• ECEN 3400: Electromagnetic Fields and Waves (3)

And, **Capstone Design** is required (6):

• ECEN 4610: Capstone Laboratory, Part 1 (3)
• ECEN 4620: Capstone Laboratory, Part 2 (3)
Environmental Engineering Emphasis

**Required Environmental engineering core courses (27):**

- CHEN 1310: Introduction to Engineering Computing (3)
- GEEN 1400: First-Year Engineering Projects (3)
- GEEN 2400: Engineering for the Community (3)
- GEEN 2851: Statics for Engineers (3) or CVEN 2121: Analytical Mechanics I (3)
- ECEN 3010: Circuits and Basic Electronics (3)
- CVEN 3161: Mechanics of Materials I (3)
- CVEN 3227: Probability, Statistics and Decision (3)
- GEEN 3400: Invention and Innovation (3)
- GEEN 3852: Thermodynamics for Engineers (3) or AREN 2110: Thermodynamics (3)

**Required Environmental Emphasis courses (22):**

- CVEN 3313: Theoretical Fluid Mechanics (3); or CHEN 3200: Chemical Engineering Fluid Mechanics (3); or MCEN 3021: Fluid Mechanics (3); or GEEN 3583: Fluid Mechanics for Engineers
- CVEN 3323: Hydraulic Engineering (3)
- CVEN 3414: Fundamentals of Environmental Engineering (3)

And, students select **three of the seven** courses below (9):

- MCEN 4131: Air Pollution Control Engineering (3)
- EVEN 4404: Water Chemistry (3)
- EVEN 4484: Introduction to Environmental Microbiology (3)
- CVEN 4333: Engineering Hydrology (3)
- CVEN 3424: Water and Wastewater Treatment (3)
- CVEN 3434: Applied Ecology (3)
- CVEN 4474: Hazardous and Industrial Waste Management (3)

And, **Capstone Design** is required (4):

- EVEN 4434: Environmental Engineering Design (4)

*+ students with an Environmental Emphasis are required to take the Fundamentals of Engineering (FE) exam when they are within 32 credit hours of graduation.*

Mechanical Engineering Emphasis

**Required Mechanical engineering core courses (29):**

- CSCI 1320: Computer Science 1: Starting Computing Engineering Applications (3)
- GEEN 1400: First-Year Engineering Projects (3)
- MCEN 2000: Professionalism & Career Seminar (1)
- MCEN 2024: Materials Science (3)
- GEEN 2400: Engineering for the Community (3)
- GEEN 2851: Statics for Engineers (3) or MCEN 2023: Statics and Structures (3)
- ECEN 3010: Circuits and Basic Electronics (3)
- MCEN 3047: Data Analysis and Experimental Methods (4)
- GEEN 3400: Invention and Innovation (3)
- GEEN 3852: Thermodynamics for Engineers (3) or MCEN 3012: Thermodynamics (3)
Required Mechanical Emphasis courses (21):

- MCEN 2043: Dynamics (3)
- MCEN 2063: Mechanics of Solids (3)
- MCEN 3021: Fluid Mechanics (3) or GEEN 3853: Fluid Mechanics for Engineers (3)
- MCEN 3025: Component Design (3)
- MCEN 4043: System Dynamics (3)

And, Capstone Design (6):

- MCEN 4045: Mechanical Engineering Design Project 1 (3)
- MCEN 4085: Mechanical Engineering Design Project 2 (3)

e+ students with a Mechanical Emphasis are required to take the Fundamentals of Engineering (FE) exam when they are within 32 credit hours of graduation.

Concentration Requirements
An e+ concentration allows students to explore their additional passions, either within or external to engineering. The concentration course sequence is a series of courses with increasing specificity or depth within a field, typically culminating in senior level courses. Most e+ concentrations will be at least four three-credit courses. You choose from several approved e+ concentrations:

- Applied Math Minor;
- Applied Mathematics in Statics;
- CU Teach Engineering Math;
- CU Teach Engineering Science;
- Business;
- Economics;
- Engineering Management;
- Entrepreneurship;
- Environmental Policy;
- Environmental Studio Design;
- Geological Sciences;
- Pre-Med;
- Neuroscience;
- Russian Culture;
- Spanish and Latin American Cultures;
- Sustainability;
- Technology Arts and Media

Every e+ concentration must be pre-approved by an Engineering Plus advisor. All concentration courses require a minimum grade of C in each course.

Humanities and Social Science Requirements
Your Humanities and Social Science (H&SS) courses are a vital component of your undergraduate education. These courses are an opportunity to expand intellectually in new and exciting directions. Many students find that their H&SS courses provide a beneficial balance to their technical curriculum. Make an overall plan for these courses in consultation with your advisor and other sources of assistance.

The Engineering Plus program abides by the requirements of the College of Engineering and Applied Science for humanities and social science courses, found at: colorado.edu/engineering/academics/policies/hss

- You are required to complete 15 credit hours of approved H&SS courses (see approved courses at link above)
- At least 6 credit hours must be taken at the 3000+ level.
- In addition to the 15 credit hours of H&SS courses, you are required to complete a writing course. You can take HUEN 1010 during your first year in the University. Otherwise, you can take either HUEN 3100, WRTG 3030, WRTG 3035, or PHYS 3050.

Herbst Program of Humanities
The College of Engineering and Applied Science offers a small number of students a specialized program in the humanities. All courses in the Herbst Program are approved H&SS courses. Classes in the Herbst Program are
different from your other courses. Class meetings are in the form of moderated discussions in group settings, generally with 12 students and a faculty moderator. Frequent writing assignments help you learn to write lucidly and to find the expression of intellectual discipline in good writing.

The small-group setting creates a community of learning. Seminar moderators don’t seek to impart textbook knowledge to you. Instead, all participants share in discussions of original masterpieces from the various fields of human achievement. The readings extend from Homer to Einstein and include Dante, Descartes and the Federalist Papers, among others. Works of art and music may also be studied. Students learn to examine their own convictions, to listen attentively and respectfully to the opinions of others, and to engage in a conversation that leads away from having unreflected points of view to a responsible consideration of ideas. In doing so, it also helps you develop skills of unquestionable practical value: speaking, writing and thinking critically.

The program encourages a flexibility of mind which engineers, like other skilled professionals, require in a rapidly changing technological and social environment. Finally, the program helps liberate the creative imagination that is essential in the highest reaches of engineering design and leadership. For additional information, contact the Herbst Program office in the Lesser House, 5-2444.

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**Personalizing Your Academic Experience**

Engineering Plus gives you the opportunity to personalize your academic experience through hands-on projects and a flexible curriculum. To further personalize your experience, students are highly encouraged to pursue additional opportunities outside of their academics. These opportunities could be leadership positions, residential communities, research opportunities, study abroad and more. Information on the many opportunities available to you as a student can be found below.

**The Integrated Teaching and Learning Program and Laboratory (ITLL):** As an e+ student you will already be taking the courses offered through the ITLL. However, the ITLL offers additional skill-building workshops for you to get hands-on experience and strengthen your ability to integrate engineering theory with practice. Additional information on the ITLL, workshops and equipment can be found at: [itll.colorado.edu/](http://itll.colorado.edu/)

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**Research Opportunities**

**Discovery Learning Apprenticeship Program:** The DLA Program, open to all academic levels in the College of Engineering and Applied Science, allows undergraduate students to earn hourly pay while engaging in research with college faculty. Students learn hands-on techniques, gain insight to a field of study and learn life skills such as time management, flexibility and how to be part of a team. Positions are announced in early-April and applications are accepted in late-April for apprenticeships during the following academic year. Further information can be found here: [colorado.edu/engineering/activelearning/discovery/apprenticeship](http://colorado.edu/engineering/activelearning/discovery/apprenticeship)

**Undergraduate Research Opportunities Program (UROP):** The UROP Program supports research partnerships between faculty and undergraduates from all colleges. Students from all academic levels can participate. Grants include assistantships, team grants or standard grants. All projects require a faculty sponsor. UROP is a campus-wide program, supporting students from all schools and colleges including the College of Engineering and Applied Science. More information on the UROP program can be found here: [colorado.edu/suep/about-urop](http://colorado.edu/suep/about-urop)

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**Engineering Leadership Program**
The College of Engineering and Applied Science is proud to offer students an opportunity to study, experience and observe leadership in preparation to become future leaders. Engineers can make a world of difference through their chosen careers. Equipped with technical knowledge and analytical and problem-solving skills, they have the know-how to create things that make the world a better place. Through the Engineering Leadership Program, engineering undergraduates with strong leadership skills and experience can distinguish themselves by obtaining an Engineering Leadership Certificate upon graduation. Check out the program at: colorado.edu/engineering/leadership/

Study Abroad

Studying abroad is a great way to immerse yourself into another culture and build foundational engineering skills. Many students in Engineering Plus end up studying abroad during their time at CU-Boulder. While study abroad is a fantastic opportunity, it’s important you take the necessary steps to ensure a successful study abroad experience in your engineering curriculum.

• **Plan ahead.** It’s possible to study abroad as an Engineering Plus student and still graduate on time, but you will need to begin planning early. Application deadlines vary by program, but you will typically need to apply about 6 months before you go abroad. However, don’t wait until then. In order to fit a study abroad program into your engineering curriculum, you’ll need to work with your academic advisor to figure out the best timing of your international experience. **Consider saving some of your Humanities & Social Science courses or your free electives for your study abroad experience, since these are often the easiest courses to find abroad.**

• **As you are exploring programs,** check the Study Abroad Course Pre-Approvals list to see what courses may have already been approved for your major (see the tab “Engineering Courses- All Majors”) or Humanities & Social Sciences (see “Engineering- Humanities & SS”). Don’t worry if the program or courses you are considering aren’t listed here. We regularly review and approve new courses.

How do you get started towards studying abroad?

• Step 1: Complete a Study Abroad 101 Information Session, either online or in-person
• Step 2: Explore program options on the Study Abroad website
• Step 3: Meet with a Study Abroad Advisor in the Office of International Education. The Study Abroad Office offers advising specifically for engineering students.
• Step 4: Meet with your academic advisor to discuss your options for courses abroad – use the pre-approval list or submit petitions for courses prior to going abroad.

How do I get courses approved for study abroad?

• Remember to first check the pre-approvals lists
• To submit additional major/minor courses for review, you will work with your Academic Advisor.

Student Professional and Honorary Societies

**Professional Societies:** The college hosts chapters of many professional engineering societies. These societies have a variety of functions, including distributing information about student government, setting up guest speakers, organizing social events and sponsoring entries in national design and paper competitions. Membership in professional societies is open to anyone. A complete list of Professional Societies can be found here: colorado.edu/engineering/academics/student-organizations

**Honor Societies:** Engineering Plus students can join the Tau Beta Pi Honor Society which invites students to join based on demonstrated academic achievement (usually a GPA of 3.5 or better) in their junior year. This honor society can be reached by calling 303-492-8665.
Campus Resources

**BOLD Center** - Broadening Opportunity through Leadership and Diversity  
http://www.colorado.edu/bold/  
303-492-6606

**Financial Aid Issues** - Office of Financial Aid  
Regent Admin Center Room #175  
http://www.colorado.edu/financialaid/  
303-492-5091

**Billing Concerns** - Office of the Bursar  
Regent Admin Center Room #150  
https://bursar.colorado.edu/  
303-492-5381

**Registration and Record Keeping** - Office of the Registrar  
Regent Admin Center Room #101  
http://www.colorado.edu/registrar/  
303-492-6970

**Housing and Dining Issues** - Housing and Dining Services  
https://housing.colorado.edu/  
303-492-6871

**Health and Wellness Services** - Wardenburg Health Services  
Wardenburg Health Center  
http://www.colorado.edu/health/  
303-492-5101

**Confidential On-Campus Counseling** - Counseling and Psychological Services  
Center for Community Room #S440  
http://www.colorado.edu/health/counseling  
303-492-6766

**Gender and Sexuality Center**  
Center for Community Room #N450  
http://www.colorado.edu/gsc/  
303-492-1377

**Cultural Unity and Engagement Center**  
Center for Community Room #N320  
http://www.colorado.edu/cue/  
303-492-5667

**Women’s Resource Center**  
University Memorial Center  
http://www.colorado.edu/wrc/  
303-492-5731