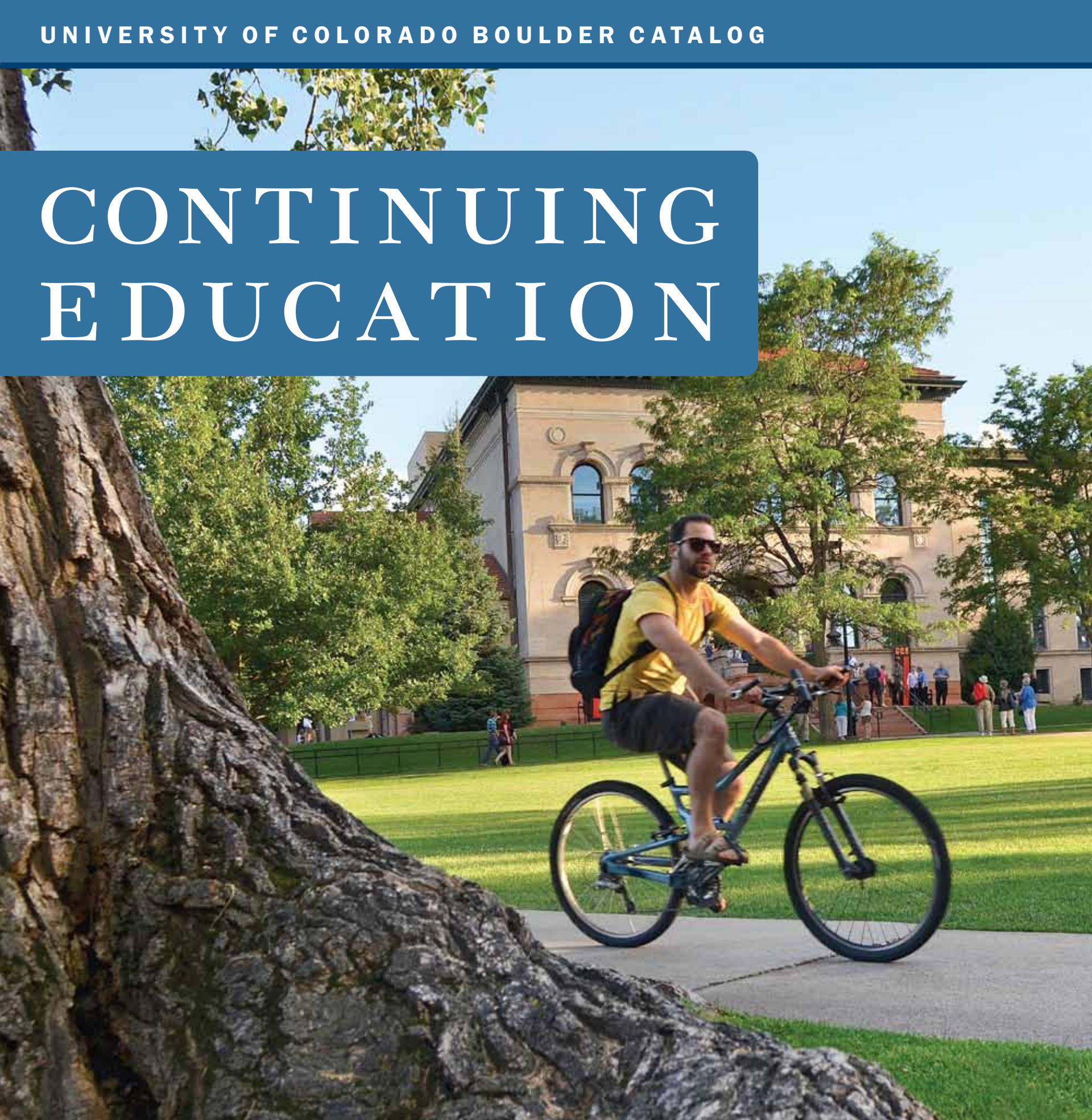


CONTINUING EDUCATION



How the West was written. Best American Essays. — p. 5

It's all Greek to me. Beginning Classical Greek. — p. 10

Live your dream. Post-Bac. Pre-Med. Program. — p. 15

Back to school time. CU Complete. — p. 17

Explore more online: Visit conted.colorado.edu for course updates.

SUMMER '13



Answer **YOUR** calling.

Kathy

Age 4: Sand Castle Builder

Age 21: Student, *Our Changing Environment*

What have you always wanted to create...a structure, a work of art, a new way of thinking?

We offer an incredible range of course options to help you pursue your passion or discover a new one. With the flexibility of daytime, evening, and online courses, there's no reason to wait any longer.

Achieve your dream today. Visit achieve.colorado.edu

CONTENTS

14 Additional Credit Programs

- ACCESS (Available Credit Courses for Eligible Special Students)
- High School Concurrent
- Applied Music
- Finishing Your Degree at CU

15 Post-Baccalaureate Pre-Medical Program

16 Summer Session

17 CU Complete

28 Student Resources and Registration Information

2 Boulder Evening

University of Colorado credit courses offered weekdays after 5 pm through the departments of communication, English, mathematics, psychology, sociology, Spanish, and more.

6 Independent Learning

Online University of Colorado credit courses — an excellent solution for disciplined independent learners.

18 Engineering Online

Convenient, flexible education for working professionals seeking master's degrees, graduate-level certificates, and skill-building short courses.

20 International English

English as a second language programs for international students, community residents, or interested visitors from other countries.

22 Science Discovery

An experience-based educational outreach program designed to stimulate scientific interest, understanding, and literacy among Colorado's youth, teachers, and families.

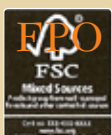
26 Outreach

Projects highlighting faculty research, creative work, and teaching aimed at audiences outside the university community.



Let's get connected.

Visit conted.colorado.edu/catalogs to be placed on the permanent mailing list.



Printed on Forest Stewardship Council paper ensuring the highest standards of environmental and social responsibility. Share your catalog with friends, and recycle all appropriate materials. Thank you.

Bread and Circuses: Society and Culture in the Roman World

TRAVIS RICK RUPP

“The founding of Greek and Roman societies was so deeply rooted in their

MYTHOLOGICAL

traditions that it is often difficult to separate myth from fact.”

“We investigate the ancient world differently than we may other times in history,” says Travis. “Much of the ancient world is lost or manipulated by historians from rising world powers after the fall of the Roman Empire. These historians shaped history by meticulously selecting what was maintained for us to study. But, we can use different modes, like archeological methods or artistic analysis, to find a deeper truth.”

TAKE CREDIT FOR LEARNING

Use our evening courses to make significant progress toward a degree or to acquire a career-advancing skill without taking time away from the rest of your busy life. You can start a degree, finish one, enhance your employability, experiment with returning to college, or supplement your current on-campus course load. It all depends on you.

Boulder Evening credits are just like those awarded on main campus. Grades count toward your GPA. And your transcript doesn't distinguish between evening and daytime courses. Talk with one of our advisors today.

Eligibility

All you need is a high school diploma or GED. Individuals with University of Colorado service indicators (financial holds) or on academic suspension from the College of Engineering and Applied Science may not enroll.

If you are considering applying to CU-Boulder as a degree student in the future, meet with a Continuing Education academic advisor to learn about your academic options. We want to help you be successful at the University

of Colorado and meet your academic goals. Requirements for admission vary by your status (freshman, transfer, second-degree student), so set up an academic advising appointment before you enroll in classes. If you are under age 22, please bring copies of your high school transcript, any college transcripts, and your SAT or ACT scores to your advising appointment. For more information about admission procedures and registration status, call Continuing Education at 303-492-5148.

Resident Tuition Requirement

Colorado law requires that Continuing Education verify that students receiving in-state tuition, the College Opportunity Fund, and some types of financial aid are legally present in the United States. This applies to students in the ACCESS, Boulder Evening, Applied Music, Individualized Instruction, Engineering Management (on-campus), and Telecommunications (on-campus) programs.

You can verify your legal presence in one of three ways:

1. Complete an affidavit in person at Continuing Education or the University Registrar's Office. You will need to bring an approved photo ID to complete the affidavit.
2. Complete and submit the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov or the College Opportunity Fund (COF) application at cof.college-assist.org.
3. Download the PDF at registrar.colorado.edu/students/pdf/affadavit_verifying_citizenship.pdf. Mail the completed and notarized form to Continuing Education.

BOULDER EVENING



If you do not verify your presence you will be reclassified as a nonresident of Colorado and charged the higher out-of-state tuition.

Adding and/or Dropping Courses

Complete information on enrolling and dropping, along with deadlines, can be found on page 4. If you don't officially withdraw from a course, you may receive a grade of *F* for that course and you may be liable for any tuition and fees.

If you do not attend your course regularly during the first week through the last day to drop (see page 4), you **may** be administratively dropped. Check with your instructor or contact Continuing Education for additional information.

Tuition

Boulder Evening tuition is assessed in addition to any tuition paid on campus (resident or nonresident).

Tuition is determined by your residency.

In-state tuition

\$278 per credit hour

Out-of-state tuition

\$1,083 per credit hour

The Division will charge the in-state tuition rate for Boulder Evening when a nonresident degree student pays for six or more credit hours through the Boulder campus and then enrolls for additional Boulder Evening courses. A full tuition schedule is available at conted.colorado.edu/student-resources/accounting/ceps-tuition.

Some courses requiring special equipment or materials may be slightly higher.

Residency

If you have lived in Colorado for the past 12 months, you may be eligible for in-state tuition rates although you may be asked for documentation. For additional information, please contact our classification coordinator at 303-492-5148.

Final Exams and Grades

Final exams are held the last day of the class. See the list of courses by start date on page 5. Final grades will be available on mycuinfo.colorado.edu approximately two weeks after a class ends. If you need an official transcript, visit the registrar's office website at registrar.colorado.edu/students/transcripts.html for information.

Faculty and Staff Discounts

University of Colorado faculty and staff on at least a half-time, permanent appointment and retired faculty and staff may enroll in classes at a 50% tuition discount. Please provide proof of status when you enroll.

Student Fees

Boulder Evening students have the option of paying student fees for use of the Recreation Center, Wardenburg Student Health Center, etc. including purchasing an RTD bus pass. Visit conted.colorado.edu/student-resources/accounting for information.

IMPORTANT DATES – SUMMER 2013

Session 1 - Section 100 (5 weeks) Full Session - Section 300 (8 weeks)

March 11: Boulder Evening registration through MyCUInfo begins 7 am-midnight. Registration is also available by mail, fax, or in person at the Continuing Education Center, 1505 University, 8 am-5 pm Monday through Friday.

May 24: Deadline to apply for Nontraditional Student Scholarship.

May 27: University Closed.

June 3: Summer Boulder Evening Full Session and Session 1 classes begin.

June 10: 11:59 pm deadline to enroll online using MyCUInfo (4:30 pm deadline in person) in Full Session and Session 1 classes, add your name to a wait list, request *pass/fail* status, or drop with a 100% refund.

11:59 pm deadline to drop online using MyCUInfo (4:30 pm deadline in person) Full Session and Session 1 classes without instructor's signature.

Withdrawals from classes after this date will appear as a *W* on your academic record and must be received in writing.

June 11: Instructor's signature required to withdraw from classes.

June 17: 4:30 pm deadline to withdraw with a 60% refund*.

June 19: Tuition for Full Session and Session 1 due.

June 24: 4:30 pm deadline to withdraw with a 40% refund*.

June 25: Petition required to withdraw from classes. Petition forms available at Continuing Education.

July 4: University Closed. No Evening Classes.

July 5: Last day of classes and final exams for Session 1.

July 26: Last day of classes and final exams for Full Session.

Session 2 - Section 200 (5 weeks)

March 11: Boulder Evening registration through MyCUInfo begins 7 am-midnight. Registration is also available by mail, fax, or in person at the Continuing Education Center, 1505 University, 8 am-5 pm Monday through Friday.

May 24: Deadline to apply for Nontraditional Student Scholarship.

May 27: University Closed.

July 9: Summer Boulder Evening Session 2 classes begin.

July 16: 11:59 pm deadline to enroll online using MyCUInfo (4:30 pm deadline in person) in Session 2 classes, add your name to a wait list, request *pass/fail* status, or drop with a 100% refund.

11:59 pm deadline to drop online using MyCUInfo (4:30 pm deadline in person) Session 2 classes without instructor's signature.

Withdrawals from classes after this date will appear as a *W* on your academic record and must be received in writing.

July 17: Instructor's signature required to withdraw from classes.

Tuition for Session 2 due.

July 23: 4:30 pm deadline to withdraw with a 60% refund*.

July 30: 4:30 pm deadline to withdraw with a 40% refund*.

July 31: Petition required to withdraw from classes. Petition forms available at Continuing Education.

August 9: Last day of classes and final exams for Session 2 classes.



Sharif Durzi

Greek Art and Archaeology

“Last year I took The Rise and Fall of Ancient Rome, which Travis Rupp also taught. I really enjoyed his teaching method, so I took this class. He is able to relate information in a way that everyone can understand. It was interesting to see how the Roman society evolved with each new emperor. I wanted to continue learning more.”

BOULDER EVENING**COURSES BY START DATE**

Course No.–Hours	Sec.	Class No.	Times	Course Title	Core	In-state Tuition
------------------	------	-----------	-------	--------------	------	------------------

FULL SESSION – SECTION 300 (8 WEEKS)

Tuesday course begins June 4 and ends July 26

*WRTG 1150-3	300	18690	6-9 pm	First-Year Writing and Rhetoric	written communication	\$834
--------------	-----	-------	--------	---------------------------------	-----------------------	-------

SESSION 1 – SECTION 100 (5 WEEKS)

Monday–Friday courses begin June 3 and end July 5

ARTS 1875-3	100	18704	12:45-3:55 pm	Ceramics for Nonmajors	none	\$1,059
CHIN 1010-5	100	17618	2-5 pm	Beginning Chinese 1	foreign language	\$1,410
CHIN 2110-5	100	17622	2-5 pm	Intermediate Chinese 1	foreign language	\$1,410
JPNS 1010-5	100	17625	2-5 pm	Beginning Japanese 1	foreign language	\$1,410
JPNS 2110-5	100	17617	2-5 pm	Intermediate Japanese 1	foreign language	\$1,410
JPNS 3110-5	100	17621	2-5 pm	Advanced Japanese 1	none	\$1,410

Tuesday and Thursday courses begin June 4 and end July 5

*ARTH 3039-3	100	19017	6-8 pm	Greek Art and Archaeology	literature and the arts	\$909
*ARTH 3109-3	100	18432	6-9 pm	Art in Contemporary Society	none	\$909
*CLAS 3039-3	100	19018	6-8 pm	Greek Art and Archaeology	literature and the arts	\$909
*IPHY 2420-3	100	18437	6-9 pm	Nutrition for Health and Performance	natural science	\$834
*MATH 2510-3	100	18433	6-9 pm	Introduction to Statistics	none	\$834
*WRTG 3020-3	100	18691	6-9 pm	Topics in Writing: Language, Power, and Perception	written communication	\$834

SESSION 2 – SECTION 200 (5 WEEKS)

Monday–Friday courses begin July 9 and end August 9

CHIN 1020-5	200	17620	2-5 pm	Beginning Chinese 2	foreign language	\$1,410
CHIN 2120-5	200	17624	2-5 pm	Intermediate Chinese 2	none	\$1,410
JPNS 1020-5	200	17616	2-5 pm	Beginning Japanese 2	foreign language	\$1,410
JPNS 2120-5	200	17619	2-5 pm	Intermediate Japanese 2	none	\$1,410
JPNS 3120-5	200	17623	2-5 pm	Advanced Japanese 2	none	\$1,410

Tuesday, Wednesday, and Thursday course begins July 9 and ends August 8

SPAN 2110-3	200	18438	6-9 pm	Second-Year Spanish 1	foreign language	\$854
-------------	-----	-------	--------	-----------------------	------------------	-------

Tuesday and Thursday courses begin July 9 and end August 8

*ARTH 1300-3	200	18434	6-9 pm	History of World Art 1	literature and the arts	\$909
*ARTH 4929-3	200	18435	6-8 pm	Special Topics in Art History: Russian Avant-Garde	none	\$909
*CLAS 1140-3	200	18436	6-8 pm	Bread and Circuses: Society and Culture in the Roman World	historical context	\$834
*SOCY 3314-3	200	18451	6-9 pm	Violence Against Women and Girls	none	\$834
*WMST 3314-3	200	19019	6-9 pm	Violence Against Women and Girls	none	\$834
*WRTG 3020-3	200	18694	6-8 pm	Topics in Writing: Best American Essays	written communication	\$834

Introduction to Physical Anthropology 1
JONATHAN O'BRIEN

“Anthropology is the story of us: humans
LEARNING
about humans through the lens of humanity.”

“By learning about where we come from, and how our ancestors lived and adapted, we can better understand what possibilities the future may hold,” says Jonathan. “In class, we learn about the order of Primates, including their evolution from the earliest fossils to modern humans. When we look at science through this greater narrative, we can understand how we fit into the natural world. As part of this, I make my class an educational community through video interviews with experts from many facets of physical anthropology.”

THE ULTIMATE IN FLEXIBILITY WITH CU QUALITY.

You call the shots – by deciding when, where, and how you learn.

Independent Learning lets you start your study any time of the year.

You can complete courses over the Internet; choose from self-paced classes that you complete according to your calendar; or term-based classes that follow the semester calendar. Online classes allow rich interaction with your instructor and other students.

Think of the possibilities. You can earn extra credit toward your degree, enhance and develop your job skills, prepare for a career change, or just satisfy your curiosity – all at your own convenience.

INDEPENDENT LEARNING



So, it's up to you to challenge yourself and to decide how you want to take a course. Complete course descriptions and additional information are available at conted.colorado.edu/independent or call 303-492-5148.

If you are considering applying to CU-Boulder as a degree student in the future, meet with a Continuing Education academic advisor to learn about your academic options. We want to help you be successful at the University of Colorado and meet your academic goals. Requirements for admission vary by your status (freshman, transfer, second degree student), so set up an academic advising appointment before you enroll in classes. If you are under age 22, please bring copies of your high school transcript, any college transcripts, and your SAT or ACT scores to your advising appointment. Advising appointments can be held by phone or in person. To make an appointment online and explore your options visit conted.colorado.edu/student-resources. For more information about admission procedures and registration status, call Continuing Education at 303-492-5148.

Faculty and Staff Discounts

University of Colorado faculty and staff on at least a half-time appointment are eligible for a 20% discount on most courses with the exception of the Writing and Rhetoric courses.

Course Information

These University of Colorado credit classes are approved by the individual departments.

Term-based Courses

Term-based courses follow a fixed calendar so that all students will be on the same schedule and can regularly interact with each other online.

Self-paced Courses

Self-paced courses allow you up to 6 months to finish and can be extended for another 6 months. All course communications are conducted online. Many of these courses involve online interaction among students and a broad range of web activities.

Independent Learning also offers:

Applied Music

Private and small group for-credit music instruction with the Applied Music program (see page 14).

Individualized Instruction

For special cases when a student needs a course that is unavailable (talk to your advisor or call 303-492-5148 for more information).

Youth Piano Program

In cooperation with the CU-Boulder College of Music, we are offering group classes for beginners ages 6-8 and private lessons for ages 9-17 or younger students with some training. Students will learn from experienced instructors from the College of Music. Visit conted.colorado.edu/youthpiano for complete information.

TERM-BASED ONLINE COURSES

These courses are offered on a term basis in order to provide rich interaction with your instructor and the other students in the course. The courses follow a calendar of assignments and examinations. Note the term dates carefully. These courses are conducted as virtual seminars, requiring significant amounts of writing and significant amounts of interaction with the instructor and other students. Plan on 90 hours of work in addition to approximately 45 hours with the study guide.

TERM-BASED COURSES BY START DATE

Course No.–Hours	Section	Class No.	Course Title	Core	Tuition
Session IL 3 – 10 weeks: June 3 – August 9					
ANTH 2010-3	581	18528	Introduction to Physical Anthropology 1	natural science	\$1,029
ATLS 3519-3	581	18545	Universal Design for Digital Media	none	\$1,029
NCTM 3519-3	581	18546	Universal Design for Digital Media (noncredit)	none	\$625
COMM 2400-3	581	18556	Discourse, Culture, and Identities	human diversity	\$1,029
COMM 2500-3	581	18558	Interpersonal Communication	none	\$1,029
COMM 3610-3	581	18561	Communication, Technology, and Society	none	\$1,029
EBIO 1210-3	581	18562	General Biology 1	natural science	\$1,029
ENGL 1600-3	581	18563	Masterpieces of American Literature	literature and the arts	\$1,029
ENGL 1800-3	581	18564	American Ethnic Literatures	human diversity	\$1,029
ENGL 3000-3	581	18570	Shakespeare for Nonmajors	literature and the arts	\$1,029
ENGL 3060-3	581	18574	Modern and Contemporary Literature	literature and the arts	\$1,029
ENGL 3060-3	582	18575	Modern and Contemporary Literature	literature and the arts	\$1,029
ENGL 3267-3	581	18578	Women Writers	none	\$1,029
ENGL 3665-3	581	18581	American Literature after 1860	none	\$1,029
ENGL 4245-3	581	18583	American Novel 2	none	\$1,029
FILM 1002-3	581	18585	Film Analysis for Non-Majors	none	\$1,114
GEOG 1001-4	581	18587	Environmental Systems 1: Climate and Vegetation	natural science	\$1,372
GEOG 1011-4	581	18590	Environmental Systems 2: Landscapes and Water	natural science	\$1,372

IMPORTANT DATES FOR TERM-BASED ONLINE COURSES

Summer 2013

	Session IL 3 (10 weeks)	Session IL 4 (8 weeks)	Session IL 1 (5 weeks)	Session IL 2 (5 weeks)
Registration Begins	March 11	March 11	March 11	March 11
Course Begins	June 3	June 3	June 3	July 8
11:59 pm deadline to enroll online using MyCUInfo (4:30 pm deadline in person), add your name to a wait list, request pass/fail status, or drop with a 100% refund *†	June 12	June 10	June 6	July 12
4:30 pm deadline to withdraw with a 60% refund	June 19	June 17	June 13	July 19
Tuition Due	June 19	June 19	June 19	July 17
4:30 pm deadline to withdraw with a 40% refund	June 26	June 24	June 20	July 26
Course Ends	August 9	July 26	July 5	August 9

* Withdrawals from classes after this date will appear as a *W* on your academic record and must be received in writing.

† Petition required to add classes after this date. Petition Forms documenting extenuating circumstances are available at Continuing Education.

INDEPENDENT LEARNING

Course No.–Hours	Section	Class No.	Course Title	Core	Tuition
GEOG 1992-3	581	18591	Human Geographies	none	\$1,029
GEOG 4501-3	581	18592	Water Resources and Water Management of Western United States	none	\$1,029
GEOG 5501-3	581	18595	Water Resources and Water Management of Western United States	none	\$1,329
GEOL 1010-3	581	18596	Introduction to Geology	natural science	\$1,029
HIST 1010-3	581	18598	Western Civilization 1: From Antiquity to the 16th Century	historical context	\$1,029
HIST 1015-3	581	18599	History of the United States to 1865	United States context	\$1,029
HIST 1020-3	581	18600	Western Civilization 2: 16th Century to the Present	historical context	\$1,029
HIST 1025-3	581	18620	History of the United States since 1865	United States context	\$1,029
HIST 1123-3	581	18621	Introduction to British History since 1660	historical context	\$1,029
JOUR 1001-3	581	18871	Contemporary Media Analysis	none	\$1,029
JOUR 4301-3	581	18625	Media Ethics	none	\$1,029
JOUR 4651-3	581	18627	Media Law	none	\$1,029
JOUR 5301-3	581	18626	Media Ethics	none	\$1,329
MATH 1011-3	581	18628	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills	\$1,029
MATH 1012-3	581	18629	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills	\$1,029
MATH 1071-3	581	18630	Finite Mathematics for Social Science and Business	quantitative reasoning and mathematical skills	\$1,029
MATH 1081-3	581	18529	Calculus for Social Science and Business	quantitative reasoning and mathematical skills	\$1,029
MATH 1150-4	581	18539	Precalculus Mathematics	quantitative reasoning and mathematical skills	\$1,372
MATH 2510-3	581	18540	Introduction to Statistics	none	\$1,029
MUEL 1081-3	581	18543	Basic Music Theory	none	\$1,029
MUEL 2752-3	581	18544	Music in American Culture	United States context	\$1,029
PHIL 1000-3	581	18547	Introduction to Philosophy	ideals and values	\$1,029
PHIL 1200-3	581	18549	Philosophy and Society	United States context or ideals and values	\$1,029
PHIL 1400-3	581	18553	Philosophy and the Sciences	natural science	\$1,029
PHIL 2390-3	581	18555	Philosophy and Psychology	none	\$1,029
PHIL 3180-3	581	18565	Critical Thinking: Contemporary Topics	none	\$1,029
PSCI 1101-3	581	18566	The American Political System	contemporary societies or United States context	\$1,029
SOCY 1021-3	581	18580	United States Race and Ethnic Relations	United States context	\$1,029
SOCY 2031-3	581	18582	Social Problems	ideals and values	\$1,029
SOCY 2044-3	581	18584	Crime and Society	none	\$1,029
SOCY 2077-3	581	18586	Environment and Society	ideals and values	\$1,029
SOCY 3042-3	581	18588	Topics in Population and Health: Death and Dying	none	\$1,029
SOCY 3161-3	581	18589	Sociological Perspectives on Race and Ethnicity	none	\$1,029



Course descriptions are available at
conted.colorado.edu/independent

TERM-BASED COURSES BY START DATE (continued)

Course No.–Hours	Section	Class No.	Course Title	Core	Tuition
Session IL 4 – 8 weeks: June 3 – July 26					
COMM 3310-3	581	18559	Principles and Practices of Argumentation	none	\$1,029
COMM 3320-3	581	18560	Persuasion in Society	none	\$1,029
ENGL 3000-3	582	18571	Shakespeare for Nonmajors	literature and the arts	\$1,029
ENGL 3563-3	581	18579	Early Shakespeare	none	\$1,029
WRTG 1150-3	581	18593	First-Year Writing and Rhetoric	written communication	\$1,029
WRTG 1150-3	582	18594	First-Year Writing and Rhetoric	written communication	\$1,029
Session IL 1 – 5 weeks: June 3 – July 5					
ATOC 1050-3	581	18550	Weather and the Atmosphere	natural science	\$1,029
CLAS 1013-4	581	18552	Beginning Classical Greek 1	none	\$1,372
PHIL 1100-3	581	18548	Ethics	ideals and values	\$1,029
WRTG 3007-3	581	18597	Writing in the Visual Arts	written communication	\$1,029
WRTG 3020-3	581	18601	Topics in Writing: Multicultural Rhetorics	written communication	\$1,029
WRTG 3020-3	582	18602	Topics in Writing: Environmental Writing	written communication	\$1,029
WRTG 3020-3	584	18604	Topics in Writing: Food and Culture	written communication	\$1,029
WRTG 3020-3	585	18605	Topics in Writing: Sports in American Culture	written communication	\$1,029
WRTG 3030-3	581	18611	Writing on Science and Society	written communication	\$1,029
WRTG 3090-1	581	18618	Open Topics in Writing: Advanced	none	\$343
Session IL 2 – 5 weeks: July 8 – August 9					
ATOC 1060-3	581	18551	Our Changing Environment: El Niño, Ozone, and Climate	natural science	\$1,029
CLAS 1023-4	581	18554	Beginning Classical Greek 2	none	\$1,372
PHIL 3140-3	581	18557	Environmental Ethics	ideals and values	\$1,029
PSCI 2223-3	581	18572	Introduction to International Relations	contemporary societies	\$1,029
WRTG 3020-3	583	18603	Topics in Writing: Writing on Music	written communication	\$1,029
WRTG 3020-3	588	18608	Topics in Writing: TV and American Culture	written communication	\$1,029
WRTG 3020-3	589	18609	Topics in Writing: Food and Culture	written communication	\$1,029
WRTG 3020-3	590	18610	Topics in Writing: Sports in American Culture	written communication	\$1,029
WRTG 3030-3	582	18612	Writing on Science and Society	written communication	\$1,029
WRTG 3030-3	583	18613	Writing on Science and Society	written communication	\$1,029
WRTG 3030-3	584	18614	Writing on Science and Society	written communication	\$1,029
WRTG 3040-3	581	18615	Writing on Business and Society	written communication	\$1,029
WRTG 3040-3	582	18616	Writing on Business and Society	written communication	\$1,029
WRTG 3040-3	583	18617	Writing on Business and Society	written communication	\$1,029
WRTG 3090-2	582	18619	Open Topics in Writing: Advanced	none	\$686



Course descriptions are available at
conted.colorado.edu/independent

INDEPENDENT LEARNING

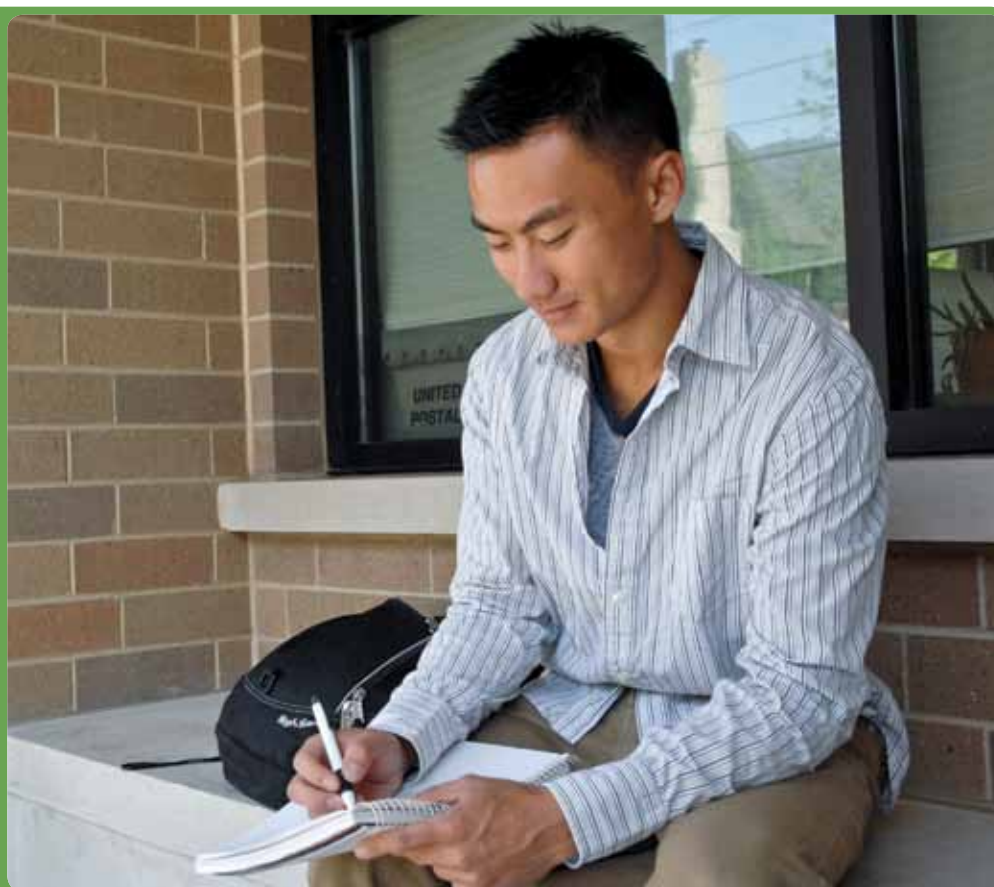
SELF-PACED COURSES

Course No.–Hours	Section	Course Title	Core	Tuition
ALLIANCE FOR TECHNOLOGY, LEARNING, AND SOCIETY (ATLAS)				
ATLS 3519-3	640	Universal Design for Digital Media	none	\$1,029
NCTM 3519-3	640	Universal Design for Digital Media (noncredit)	none	\$625
ANTHROPOLOGY				
ANTH 2070-3	641	Bones, Bodies, and Disease	none	\$1,029
ART AND ART HISTORY				
ARTS 1012-3	640	Drawing for Non-Majors	none	\$1,029
ASTROPHYSICAL AND PLANETARY SCIENCES				
ASTR 1000-3	640	The Solar System	natural science	\$1,029
ECOLOGY AND EVOLUTIONARY BIOLOGY				
EBIO 1040-3	641	Biology: A Human Approach 2	natural science	\$1,029
EBIO 4100-3	640	Advanced Ecology: Tropical Conservation	none	\$1,029
ECONOMICS				
ECON 2010-4	640	Principles of Microeconomics	contemporary societies	\$1,372
ECON 2020-4	640	Principles of Macroeconomics	contemporary societies	\$1,372
ECON 3403-3	640	International Economics and Policy	contemporary societies	\$1,029
ECON 4111-3	640	Money and Banking Systems	none	\$1,029

Sithone Xiong

Western Civilization

“I’m a full-time student and I also work for Continuing Education. This experience helped me understand the options available to me to pursue my degree on campus. Over the summer, I took a self-paced online class that allowed me to knock off one of my prerequisites. I liked it a lot. I wish I had known about this option earlier in my college career.”



SELF-PACED COURSES (continued)

Course No.-Hours	Section	Course Title	Core	Tuition
EDUCATION				
EDUC 3621-3	641	Art for the Elementary Teacher	none	\$1,029
EDUC 4161-3	641	Children's Literature	none	\$1,029
ENGLISH				
ENGL 1260-3	640	Introduction to Women's Literature	human diversity	\$1,029
ENGL 1500-3	640	Masterpieces of British Literature	literature and the arts	\$1,029
ENGL 1600-3	641	Masterpieces of American Literature	literature and the arts	\$1,029
ENGL 3000-3	641	Shakespeare for Nonmajors	literature and the arts	\$1,029
ENGL 3060-3	641	Modern and Contemporary Literature for Nonmajors	literature and the arts	\$1,029
ENGL 3116-3	640	Topics in Advanced Theory: Postmodernism	none	\$1,029
ENGL 3553-3	640	Geoffrey Chaucer	none	\$1,029
ENGL 3655-3	641	American Literature to 1860	none	\$1,029
ENGL 3665-3	641	American Literature after 1860	none	\$1,029
GEOGRAPHY				
GEOG 1982-3	640	World Regional Geography	none	\$1,029
GEOG 2412-3	640	Environment and Culture	none	\$1,029
GEOG 3251-3	640	Mountain Geography	none	\$1,029
GEOLOGICAL SCIENCES				
GEOL 1010-3	641	Introduction to Geology	natural science	\$1,029
GEOL 1020-3	640	Introduction to Earth History	natural science	\$1,029
HISTORY				
HIST 1010-3	641	Western Civilization 1: From Antiquity to the 16th Century	historical context	\$1,029
HIST 1015-3	640	History of the United States to 1865	United States context	\$1,029
HIST 1020-3	641	Western Civilization 2: 16th Century to the Present	historical context	\$1,029
HIST 1025-3	640	History of the United States since 1865	United States context	\$1,029
JOURNALISM				
JOUR 3771-3	641	Media and Communication History	none	\$1,029
JOUR 4321-3	640	Media Institutions and Economics	none	\$1,029
MUSIC				
MUEL 2752-3	640	Music in American Culture	United States context	\$1,029



Course descriptions are available at
conted.colorado.edu/independent

INDEPENDENT LEARNING

Course No.–Hours	Section	Course Title	Core	Tuition
PEACE AND CONFLICT STUDIES				
PACS 3800-3	640	Topics in Peace and Conflict Studies	none	\$1,054
PHILOSOPHY				
PHIL 1100-3	640	Ethics	ideals and values	\$1,029
PHIL 3140-3	640	Environmental Ethics	ideals and values	\$1,029
PSYCHOLOGY				
PSYC 1001-3	641	General Psychology	none	\$1,029
PSYC 1001-3	642	General Psychology	none	\$1,029
PSYC 2012-3	641	Biological Psychology 1	natural science	\$1,029
PSYC 2145-3	641	Introductory Cognitive Psychology	none	\$1,029
PSYC 2606-3	640	Social Psychology	contemporary societies	\$1,029
PSYC 3101-4	640	Statistics and Research Methods in Psychology	none	\$1,372
PSYC 4303-3	640	Abnormal Psychology	none	\$1,029
PSYC 4456-3	640	Psychology of Personality	none	\$1,029
PSYC 4511-3	641	History of Psychology	none	\$1,029
PSYC 4684-3	641	Developmental Psychology	none	\$1,029
SOCIOLOGY				
SOCY 1001-3	641	Introduction to Sociology	contemporary societies	\$1,029
SOCY 1016-3	640	Sex, Gender, and Society 1	human diversity	\$1,029
SOCY 4014-3	641	Criminology	none	\$1,029
SOCY 4021-3	641	Conflict Management in Social Systems	none	\$1,054
SOCY 4086-3	641	Family and Society	none	\$1,029



MaryLynn Dodge,
Online Teaching Assistant

Shakespeare for Nonmajors

“As a teaching assistant, I help students with everything from thesis formatting to participating in discussions. I also hold office hours using a new online tool that basically sets up a room where students can Skype or chat with me, and see my screen as I explain something. Since I have taken the class before I have a unique perspective that helps both the students and the instructor.”

ADDITIONAL CREDIT PROGRAMS

ACCESS Program

(Available Credit Courses for Eligible Special Students)

Enroll in daytime credit classes at the University of Colorado Boulder for personal or professional development through the ACCESS Program. Nondegree students may take main campus undergraduate or graduate courses after most degree-seeking students have enrolled. ACCESS is an opportunity to learn about CU-Boulder and the academic departments, meet the faculty, and earn credit.

We are accepting applications for the fall 2013 semester. Registration begins Friday, August 23, and classes begin Monday, August 26. Call 303-492-5148 for more information or visit conted.colorado.edu/access. Our capable staff can provide academic advising, financial aid, and career advising through in-person or telephone appointments. Visit conted.colorado.edu/student-resources to set up a free appointment.

ACCESS students who are Colorado residents taking undergraduate or a combination of undergraduate and graduate classes may be eligible for the College Opportunity Fund (COF). For more information visit cof.college-assist.org.

High School Concurrent Program

If you are a high school student interested in the challenge of university course work, you may enroll in credit courses at the University of Colorado Boulder through the High School Concurrent Program. You will earn university credit that may also be applied toward high school graduation requirements. Participation in the High School Concurrent Program requires written permission from your high school counselor and a parent/guardian.

If you are a high school junior or senior attending a public high school, you may be eligible for tuition assistance from your school district during the fall and spring semesters. You must notify your counselor of your intent to enroll at least two months prior to the beginning of the term. Call 303-735-5456 for an application and more information or visit conted.colorado.edu/highschool.

High School Concurrent students enrolled in ACCESS courses are eligible to apply for the College Opportunity Fund. Visit cof.college-assist.org for more information.

Applied Music Program

During the fall and spring semesters the College of Music and the Independent Learning Program offer private instruction for voice and popular instruments. Group classes are offered for beginning guitar. Private lessons are by arrangement.

Nine hours of instruction. Two semester hours of credit that can be taken for a letter grade, *pass/fail*, or *no credit*. For more information visit conted.colorado.edu/appliedmusic.

Finishing Your Degree at CU

Completing a degree is a very unique experience for each person. Whether you began your degree at CU years ago, or are hoping to complete a degree started elsewhere, we have a friendly staff who understands the challenges of balancing school, work, family...life. Let our academic advisors help you create a plan to meet your needs, making the most of the abundant programs and resources that the university has to offer. Schedule an in-person or telephone appointment at conted.colorado.edu/student-resources to discuss your options.

Learn more about the CU Complete Service for former CU-Boulder students on page 17.

Austa Parker, CAETE student

Water Utility Management: Current Issues and Future Challenges

“I plan to work in the water treatment and consulting field after finishing my PhD in environmental engineering. This requires coordinating heavily with water utilities, and I think that it is important to know how water utilities and their management procedures function. Developing soft skills in class is a nice change, since typically my field requires the development of more technical skills.”



POST-BACCALAUREATE PRE-MEDICAL PROGRAM

Ilana Fischer

Post-Baccalaureate
Pre-Medical student

“After completing my undergraduate degree in Economics and Spanish Literature at CU, I went to work at the Brookings Institution, a think tank in Washington DC. It was my dream job, but I realized I wanted to combine my interest in science with something more personal. I chose medicine. Ultimately, I hope to be a physician doing direct patient care, and be involved with creating health care policy. That way, I am not giving up my previous policy experience, but adding a tremendous amount to it.”



WHERE TO BEGIN YOUR NEXT CAREER

The post-baccalaureate pre-medical program is designed for “career changers” who were academically successful as undergraduates and have completed a bachelor’s degree, but have not completed the prerequisite courses necessary to apply to medical and dental schools. This intensive yearlong post-baccalaureate program (one summer, followed by a fall semester and a spring semester) is appropriate for students who are either recent college graduates or experienced professionals seeking a career change. The program begins in early June, 2013 and provides the course work and support necessary to take the MCAT in Summer 2014.

We are accepting applications now until all positions in the program are filled.

This program is designed for students who have:

- a strong academic undergraduate record with a bachelor’s degree in a non-science field. Most applicants will have a grade point average of 3.3 or above.
- completed college algebra and trigonometry, or the equivalent.

- an informed understanding of the health profession they seek to enter based on extensive and meaningful clinical experience in a healthcare setting such as shadowing medical professionals, volunteering with patients, or employment in a healthcare field.

We offer you the opportunity to gain a sound foundation in the science classes necessary to apply for graduate medical studies. Students receive individual advising, study skills for science classes, and application assistance. Here are the courses provided in the program:

Summer

- General Chemistry 1 with Lab
- General Chemistry 2 with Lab

Fall

- Introduction to Cellular and Molecular Biology with Lab
- Organic Chemistry 1 with Lab
- General Physics 1 with Lab

Spring

- Principles of Genetics with Lab
- Organic Chemistry 2 with Lab
- General Physics 2 with Lab

An optional second summer term with anatomy, physiology, and/or biochemistry courses is available.

Visit premed.colorado.edu for more information or e-mail postbacmd@colorado.edu.

SUMMER SESSION



Margaret Asirvatham
Instructor, Chemistry and Biochemistry

GET INTO SUMMER!

Summer Session offers you the opportunity to earn academic credit, satisfy your curiosity, meet major or minor requirements, and be part of our summer community. Many of CU's most popular and sought-after courses are offered. The diverse population of students from CU and institutions across the country, high school students, and teachers and other professionals makes Summer Session a unique learning experience.

We also welcome international students to be part of summer in Boulder. E-mail ceadvise@colorado.edu for more information.

Special offerings during Summer Session include:

Faculty-in-Residence Summer Term (FIRST)

Learn from prestigious, world-class faculty that teach on the Boulder campus during summer session. These renowned scholars bring a wealth of experience, knowledge, and perspective to the classroom that will challenge and inspire your thinking. Take advantage of the incredible opportunity FIRST brings to you.

Maymester 3 weeks. 3 credits.

Accelerate your academic career with the intensive, single-course focus of Maymester. You will be immersed into an interactive environment where you can complete a core or major requirement in just three weeks. Gain knowledge and momentum by concentrating on a Maymester course.

Featured Classes

Explore the possibilities with new course offerings and classes that move you forward

and into new areas. Summer Session offers greater flexibility and smaller class sizes to make the learning process that much more engaging. Check out Featured Classes and find one that's right for you.

Online Classes

Get even more out of Summer Session with our online course program. Engage with your instructors and classmates in innovative ways, such as discussion groups, message boards, and video lectures. The classes are rigorous yet the schedule is flexible, so you can learn on your terms.

Visit the Summer Session website at www.colorado.edu/summer for additional information or to request a copy of the 2013 catalog.

Summer 2013 Schedule

Session M (Maymester):	May 13-31
Session A (5 weeks):	June 3-July 5
Session B (5 weeks):	July 9-August 9
Session C (8 weeks):	June 3-July 26
Session D (10 weeks):	June 3-August 9

CU COMPLETE SERVICE

Bianca Huggins

“When I was in college, I was in a near-death ski accident that completely knocked me off track. I took time from my education, and ended up landing a great job with a startup company. But I felt inadequate in the business world because I did not have a degree, so I decided to go back to school. After some research, I reached out to Continuing Education and they were so helpful and non-judgmental. They were so encouraging and sincerely supportive of what I was trying to do. Once I made that initial call, getting back on track was easy. Now I work full time and go to school three nights a week.”



NOW IS THE TIME TO COMPLETE YOUR DEGREE.

Your degree is closer than you think. CU Complete offers the academic guidance and potential financial support to achieve the CU degree that you started.

Guiding Former Students Toward Completing Their Degrees

CU Complete is a service designed to help former CU-Boulder students complete their degrees at CU.

Our advisors understand the challenges facing the adult student population and can help you create a path toward completing your degree.

If you are ready to work toward completing your degree, please fill out the intake form available at cucomplete.colorado.edu.

CU Complete Scholarship

Continuing Education has allocated scholarship funds to assist students who are trying to finish their CU bachelor's degree.

More information is available at cucomplete.colorado.edu.



Let's get connected.

Visit conted.colorado.edu/catalogs to be placed on the permanent mailing list.

Water Utility Management: Current Issues and Future Challenges

DICK KUCHENRITHER

“We are grooming the next generation of water professionals as people like me, who started their

CAREERS

after passage of the Clean Water Act in 1972, begin to retire.”

“Demand for water professionals is growing because of this attrition, and because of our need for resources,” says Dick Kuchenrither, Director of the CU Civil Engineering Master’s Program: Water Engineering and Management. “It is a new era. Waste water is now a sustainable resource for reusable water, nutrients, and energy. We give young professionals the leadership, communication, financial and management skills and tools they need to move the industry forward in this new era.”

Imagine sitting in your own home or office taking graduate-level classes from one of the top-ranked engineering schools in the nation. Ranked 35th overall and 20th among public engineering programs nationwide (*U.S. News and World Report 2013*) you can be sure that you are earning a superior education.

For over 25 years, the Center for Advanced Engineering and Technology Education (CAETE) has helped working professionals like you advance their careers with flexible, convenient education. Through CAETE, the distance education and professional studies arm of the College of Engineering and Applied Science, you can pursue engineering and technology course work, earn graduate specialized certificates and master’s degrees, or engage in skill-building short courses.

With a variety of distance education opportunities accessible from virtually anywhere at any time, you have the power to reach your educational goals. Courses are delivered via the Internet and CD-ROM. Experience the robust curricula, world-class faculty, and strong industry partnerships of a tier 1 research university.

Why wait? Get started today!

Master’s Degrees

- Aerospace Engineering
- Computer Science
- Electrical and Computer Engineering
- Engineering Management
- Telecommunications

Master’s-Level Certificates

- Aerospace Engineering:
 - Astrodynamics and Satellite Navigation Systems
- Electrical/Computer Engineering:
 - Embedded Systems
 - Power Electronics
 - Software Engineering
- Engineering Management:
 - Engineering Entrepreneurship
 - Engineering Management
 - Leadership and Management
 - Managing Applied Research in Technology
 - Performance Excellence in Technology Management
 - Project Management
 - Quality Systems for Product/Process Engineering

ENGINEERING ONLINE



- Six Sigma Practitioner
- Six Sigma Belt Certifications
- Systems Engineering
- Technology Ventures & Product Management
- Telecommunications
 - Computer and Network Security
 - Energy Communication Networks
 - Network Architecture
 - Telecommunications Policy
 - Wireless Networks and Technologies
- RASEI (Renewable and Sustainable Energy Institute)
 - Renewable Energy
- Civil, Environmental, and Architectural Engineering
 - Water Engineering and Management

Professional Development Courses

Take short courses to develop new skills, build valuable technical credentials, or to prepare for industry-recognized certificate examinations. These relevant, immediately applicable courses feature online delivery from respected industry leaders who bring real-world experience to the Internet classroom.

Continuing Education Units (CEUs) are awarded for all short courses. These courses are noncredit and do not apply toward degree programs or graduate certificates.

University of Colorado faculty and staff on at least a half-time, permanent appointment and retired faculty and staff as well as CU-Boulder students who are enrolled at least half time in credit courses are eligible for a 10% tuition discount on our noncredit courses. Proof of status must be provided at the time of registration.

Course Schedule Information

CUEngineeringOnline.colorado.edu

303-492-6331

caete@colorado.edu

IEC student

ROBERTA RESTAINO

“I am learning English so that I can
PURSUE
the printmaking program at CU
for my master’s degree.”

“My undergraduate degree is in art and I teach art to eight-to-thirteen-year-old children,” says Roberta, a native of Italy. “Last year, I came to Boulder to visit a friend and found out about the International English Center. Now I have a student visa, so I am able to study full time. I like the intensity of the program. It moves very quickly, which is good for me because I am excited to learn a new language.”

1030 13TH STREET ON “THE HILL.”

Since 1975, the International English Center (IEC) has helped over 20,000 international students learn and master English. Our students have gone on to attend the University of Colorado, Colorado School of Mines, the University of Denver, Colorado State University, and dozens of other institutions. The children of our former students are now IEC students – we are multi-generational! The IEC offers two English as a Second Language (ESL) programs for international students, community residents, or interested visitors from other countries.

About the International English Center (IEC)

The International English Center, established in 1975, provides an intensive approach to learning English. We offer an integrated language skills approach where students have classes in listening/speaking, reading, writing, and grammar each day. The IEC also makes available to students numerous cultural, community, and sports activities that allow them to explore U.S. culture in a friendly and safe environment.

Students have access to university libraries with a rich source of educational and research materials along with two computer labs in the IEC with Internet connections. Because we are part of the University of Colorado Boulder, there are many opportunities to interact with its diverse student population.

All IEC instructors have master’s degrees and teaching experience in international intensive programs.

The International English Center is fully accredited by the Commission on English Language Program Accreditation (CEA). We are also a member of UCIEP, consortium of University and College Intensive English Programs, and AAIEP, the American Association of Intensive English Programs.

Intensive English Program (IEP)

The program is especially designed for citizens and residents of other countries who have come to the United States on student visas and who are preparing to enter a college or university in the U.S. It is also appropriate for professionals who need to improve their English for work and for community members who desire to study English intensively. The IEP consists of five eight-week sessions of full-time communicative English language study (23 hours per week) with instruction in grammar, reading, writing, listening, and speaking. Students are tested upon arrival and are placed into classes appropriate to their proficiency.

INTERNATIONAL ENGLISH CENTER



The program consists of 20 hours of core language instruction each week at eight proficiency levels: Introductory, Basic 1 and 2, Intermediate 1, 2, and 3, Advanced 1 and 2. An additional 3 hours each week of optional elective classes are available at no additional cost. Classes average 12 to 15 students and utilize the latest ESL teaching practices and materials.

With the permission of the director, advanced-level students may be eligible to enroll in University of Colorado Boulder classes.

If you are an immigrant or a refugee and cannot afford the program, please ask about scholarship assistance.

Certificates of completion are offered.

English as a Second Language for Degree Students (ESLG)

These non-intensive credit and noncredit accent reduction and writing courses are designed to be taken by graduate and undergraduate degree students who need to strengthen specific areas in their academic language proficiency. Nondegree students may enroll if they demonstrate an appropriate level of English proficiency. An English placement test is given at the beginning of the fall and spring semesters and recommendations are made based on student results.

For more information on any of these programs, please visit iec.colorado.edu or call 303-492-5547.



Let's get connected.

Visit conted.colorado.edu/catalogs to be placed on the permanent mailing list.

LEGO Mindstorms AMY MARKS

“The kids learn computer programming, engineering, design and hands-on building skills all by
HAVING FUN
and doing something they love.”

“Each day of the program we focus on a different step in the process of creating a robot,” says Amy. “First, we build the structure, and then we work on the basic programs to make it move, and finally add modifications, like light sensors and moving arms. At the end of the week, the project culminates in a search-and-destroy battle between these unique robots, which the parents come to watch.”

ABOUT SCIENCE DISCOVERY

CU Science Discovery, established in 1983, collaborates with CU-Boulder faculty to develop and deliver science education programs for K-12 students and teachers. Science Discovery’s mission is to heighten interest and increase literacy in science, technology, engineering, and math (STEM) by providing hands-on experiences that connect students and teachers to current CU science. Science Discovery capitalizes on CU-Boulder’s scientific resources, facilities, and expertise to excite students about STEM, expose them to a variety of STEM careers and professionals, and inspire a future generation of scientists and engineers. Through its programs, Science Discovery impacts more than 20,000 students and teachers across Colorado each year.

Summer and After-School Classes

For students ages 5-18, Science Discovery offers a wide variety of classes that span the STEM disciplines. Classes offer enthusiastic and knowledgeable instructors (often STEM graduate students with teaching experience), access to university and community resources, small class sizes (10-16 students),

and a variety of laboratory and field experiences. Classes such as Wildlife Forensics, CU Science: Behind the Scenes, and Amusement Park Physics are designed to enrich student understanding and motivate students to explore science topics in greater depth. Advanced workshops, such as Sonic Arts and Sound, Environmental Engineering,

and Biomedical Engineering, offer opportunities for high school students to learn more about STEM majors and career opportunities. From fossils to forensics to physics, CU Science Discovery’s Class Program offers something for everyone! For a complete listing of classes, please visit our website.

Classroom Presentations

Science Discovery brings CU’s cutting-edge science and scientists to classrooms, libraries, and community centers throughout Colorado. The program collaborates with CU faculty, peer institutions, and other educational organizations to enrich STEM education statewide. CU Science Discovery’s interactive presentations and hands-on workshops introduce students to subjects across the STEM disciplines, including chemistry, physiology, and optics. This year, Science Discovery is introducing several new programs in insect science, earth systems science, and renewable energy! Each program’s content and activities support the Colorado Academic Standards and enrich student learning through fun, hands-on experiences.

SCIENCE DISCOVERY



STEM Workshops: Teacher Professional Development

STEM Workshops, offered on the CU campus and at school sites around the state, provide a more extended experience for elementary and middle school teachers and students. Teachers and students rotate through three different hands-on workshop modules, giving teachers the opportunity to observe how students respond to activities and allowing students to develop their own knowledge and leadership skills. In 2013, Science Discovery is partnering with CU-Boulder physicists and engineers to present the workshop: *World of Waves: Technology and Innovation in the Life, Earth, and Physical Sciences*. Through a series of three interconnected workshops, students learn about the fundamental properties of waves as they explore applications of waves in current technology. CU Science Discovery also offers workshops in Earth Systems Science: Exploring Change in the Critical Zone and Empowering the Future (renewable energy). Science Discovery conducts STEM Workshops at urban and rural sites throughout Colorado, including Longmont,

Steamboat Springs, Sterling, and Salida. Contact CU Science Discovery to bring a STEM Workshop to your community!

Field Science Programs

CU Science Discovery provides a variety of opportunities for students and teachers to participate in hands-on science while exploring the great outdoors. Throughout the school year, CU Science Discovery offers field study programs that explore Colorado's ecosystems, such as *Stream Ecology* and *Winter Ecology on Snowshoes*. Science Discovery's *Mountain Research Experience*, offered in collaboration with CU's Department of Ecology and Evolutionary Biology and INSTAAR, provides high school students the opportunity to conduct ecological field research while living and working at CU's Mountain Research Station. Science Discovery's field programs provide teachers and their students with opportunities to dig in and experience field science research firsthand. For more information about our programs and current offerings, visit sciencediscovery.colorado.edu or call 303-492-7188.

Girls in STEM

Science Discovery is working to advance gender equity in STEM by serving as the convening organization for the Colorado Collaborative for Girls in STEM, a statewide affiliate of the NSF-funded National Girls Collaborative Project. In this role, Science Discovery helps to coordinate activities across the State designed to build capacity among STEM education providers and school counselors, and promote greater opportunities for girls and women in STEM. This summer, thanks to support from the Women's Foundation of Colorado, Science Discovery is expanding its 'Girls in STEM' offerings, with seven new summer classes, including SciGirls, LEGO Structures and Mindstorms, and Video Game Design.

CU Science Discovery summer classes engage K-12 students in fun, inquiry-based activities and hands-on design challenges. Participants explore current CU research topics across a wide range of science, technology, engineering and math (STEM) disciplines. Enthusiastic, knowledgeable and experienced instructors include CU faculty, graduate and undergraduate scientists.

NEW IN SUMMER 2013

Amusement Park Physics

Amusement park rides are physics in action! We will learn about fundamental physics concepts such as speed, acceleration, friction, potential and kinetic energy, and centripetal and centrifugal force as we use K'Nex to design, build and test a variety of amusement rides.

Jr. Science Explorers: Storybook Science

Things that Go

We'll use favorite storybooks to spark our imaginations as we investigate things that go, float and fly! We'll engineer toy cars (*If I Built a Car*), build unique *Toy Boats* that float, test the best materials for *Kite Flying*, and design our own *Roller Coasters*!

Things that Grow

Picture books are the inspiration as we learn about plants and animals that live in the garden, rainforest, ocean, ponds and snow. We'll head underground with the *Diary of a Worm*, have fun *Roaming the Rainforest*, and explore *Over in the Ocean: In a Coral Reef*.

Magic Tree House: Animal Adventures Around the World

Join our favorite time travelers, Jack and Annie, to learn about amazing animal adaptations as we explore biodiversity in a variety of different ecosystems. Through hands-on activities, games and crafts, we'll learn how different animals rely on their unique traits, as well as each other, to survive in their own habitats.

Magic Tree House: Natural Disasters

Travel with Jack and Annie to investigate the science behind extreme weather events and natural disasters, such as earthquakes, volcanoes, floods, tsunamis and tornadoes. We will design an earthquake-proof tower, simulate tsunami formation and impact, and erupt a volcano!

Map Masters

In Map Masters, we will learn how maps can help us explore the world! We'll start with the basics of maps and navigation, Christopher Columbus style, and then add treasure hunts, the compass, survival skills, and

backcountry navigation tips. As we master these skills, we'll use GPS units to go on a geocaching adventure and use GIS software and Google Earth to map community landmarks and view 3D worlds.

Movin' & Groovin': The Physics of Music

Why do musical instruments sound like they do? What is the connection between physics and music? This class is designed to answer these questions, as we investigate the physics of sound and explore the amazing world of music. Throughout the week, we will build a variety of instruments to take home!

Reverse Engineering

How do today's machines and technologies really work? In this class, we will get down to the nuts and bolts, literally, by taking things apart, experimenting with the components, and then using them to build new things. We will disassemble clocks, computers, printers, phones, and toys, and see what makes them tick, before trying to put them back together in new and creative ways. If you want to turn everyday machines into cool inventions, then Reverse Engineering is for you. It will be a fun, constructive (and deconstructive) good time.

Wildlife Forensics

Explore the science behind animal-species identification through a series of forensic training sessions based on actual wildlife crimes. We'll learn about animal skulls and tracks, blood typing, hair identification and DNA fingerprinting. We'll discuss crimes that threaten wild animal species around the world and learn about efforts to fight these real-world threats.

NEW HIGH SCHOOL OPTIONS FOR SUMMER 2013!

Biomedical Engineering

Are you interested in how body parts can be engineered and how bodies can repair themselves? We'll explore these topics by working with different tissue engineering materials, discussing how cells communicate and designing strategies to create new tissues. We'll also go behind the scenes and visit a tissue-engineering lab at CU's BioFrontiers Institute to see some of this work in action.

SCIENCE DISCOVERY

Broadcast Journalism

Get behind the camera and see what it takes to become a reporter and communicate new scientific findings to the public. We will investigate a science topic of interest and then write, film, edit and produce an episode of CU Science Update, CU-Boulder's Emmy award-winning video podcast series.

Cognitive Science

Explore questions about the mind and brain from a variety of different perspectives, including cognitive psychology, linguistics, neuroscience and artificial intelligence. We'll have a chance to participate in real experiments and tour the new fMRI brain scanner at CU!

Forensic Science

Learn about the fields of Forensic Science and Criminal Justice as you collect and analyze evidence from a mock crime scene in order to solve a crime. We'll also explore a variety of related careers as we meet with guest professionals working in these fields.

RETURNING HIGH SCHOOL FAVORITES FOR SUMMER 2013!

Med School Experience

Interested in a career in health and medicine? Don't miss this unique opportunity to experience med school before you've even gone to college! We'll explore the University of Colorado's Anschutz Medical Campus as we address a series of patient case studies. Through a combination of guest speakers, hands-on activities, and lab and facility tours, we'll learn about physiology, medicine, and the role that new technology plays in improving health care. We'll learn about anatomy by uncovering the 'Visible Human' and visiting the Anatomy Lab. We'll research our cases at the medical library in order to make a diagnosis and develop a plan for our patient. We'll even have an opportunity to put our new skills to use at the state-of-the-art patient simulation center.

Mountain Research Experience

In this five-day residential field course, we will live and work at CU's Mountain Research Station, an active field research station located near Nederland. We will work with

CU faculty and undergraduate and graduate student researchers on a variety of field research projects that span disciplines such as ecology and evolutionary biology, entomology, geosciences, limnology, plant ecology, and climate science.

GIRLS IN STEM

LEGO Structures for Girls

Discover what makes various structures balanced, strong, and stable by building with LEGOs! We'll design different models to determine how pushing and pulling forces act on different structural shapes. We'll use a variety of materials in conjunction with LEGOs to put our engineering skills to the test.

LEGO Mindstorms for Girls

Using LEGO Mindstorms NXT, we can build and program robots that do what we want! Using sensors, we'll be able to make our robots 'feel,' 'see,' 'measure distance,' and 'detect motion'. Then, we'll put our robots to the test in a variety of design challenges.

Girls Rule! Chemistry Lab

For girls interested in learning more about chemistry, this class will explore chemical and physical reactions, acids, bases and pH, and the properties of polymers. By conducting experiments, making models and watching things explode, we'll have fun as we learn about the nature of chemistry and science.

Girls Rule! Math

Strengthen your understanding of fundamental math concepts as you build your own polygons, play logic games, and make your own magic squares. A variety of art projects will also help us to see math in a new way!

SciGirls

SciGirls use hands-on investigations to explore the science, technology, engineering and math in their everyday lives. Summer SciGirls will learn about electronics as we design and build light-up creatures with conductive play-doh, engineer anemometers to measure wind speed, and use forensic techniques to solve a mystery.

Video Game Design for Girls

In Video Game Design for Girls, we will get a chance to create our own video games, taking a retro standpoint or a more modern approach. Throughout the game design process, we will tap into our creative side and learn about computer science at the same time.

Visual-Matics for Girls

Create beautiful art projects as you explore the mathematics of patterns, scale, fractals, and infinity. We'll use the art of M.C. Escher, origami, Fibonacci numbers and the golden ratio as we explore mathematics artistically and art mathematically.



Learn More About Climate

MARK WILLIAMS

“With changes in climate, what we realize is one of our biggest

RESOURCES

is at risk.”

“Snow accumulates in the winter. It’s kind of like a bank where you have this nice capital account,” said Mark Williams, CU-Boulder professor of geography and fellow at the Institute of Arctic and Alpine Research (INSTAAR). “If we switch it up from snow to rain because it’s warmer, we’re going to end up with less usable water because we’re going to lose that banking effect we get from the seasonal snowpack.”

A WATERSHED MOMENT

Climate change and its impact on water availability are some of the most serious issues facing Coloradans today. Faculty and researchers at the University of Colorado Boulder are considered global leaders in water and climate change research. The Learn More About Climate initiative helps scientists provide leadership in addressing climate change and water issues locally and beyond.

Silver and gold may have brought settlers to Colorado in the 1800s, but the state’s modern-day precious resource is far more essential—water. Researchers at CU-Boulder are leading the way in water research, and their findings indicate this is a watershed moment for climate science.

“With changes in climate, what we realize is one of our biggest resources is at risk,” said Mark Williams, CU-Boulder professor of geography and fellow at the Institute of Arctic and Alpine Research (INSTAAR).

Williams is an expert in snow hydrology and mountain ecology. He is the principal investigator of the Niwot Ridge Long-Term Ecological Research project, which was established by the National Science Foundation to conduct research on the long-term ecological phenomena of the alpine tundra location above 10,000 feet. Williams and his team measure snowmelt and atmospheric conditions, information that is trapped in the snowpack at the Niwot Ridge research site.

The Learn More About Climate initiative and its award-winning website,

LearnMoreAboutClimate.colorado.edu, help Williams and other CU-Boulder faculty lend their climate science expertise to citizens and science educators. Williams’ research at Niwot Ridge is the focus of a five-minute educational video titled, “Water: A Zero Sum Game” viewable at LearnMoreAboutClimate.colorado.edu/topics/water.

Williams estimates that well over half of the usable water in the western United States comes from snowmelt runoff, but changes in climate threaten future water availability.

“Snow accumulates in the winter. It’s kind of like a bank where you have this nice capital account,” said Williams. “If we switch it up from snow to rain because it’s warmer, we’re going to end up with less usable water, because we’re going to lose that banking effect we get from the seasonal snowpack.”

In addition to featuring Williams and other world-class climate scientists, Learn More About Climate seeks to extend this expertise to educators, policymakers and citizens by highlighting current research.

OUTREACH



Geography undergraduates involved in Mark Williams' snow hydrology internship program collect snowpack data at the windy Niwot Ridge Long-Term Ecological Research site.

In particular, Learn More About Climate helps connect teachers and science educators with CU-Boulder. The website also features teacher-developed model lesson plans and classroom tools for delving deeper into climate science. The initiative's goal is to help build an informed citizenry that creatively works toward sustainable practices in our schools, homes, businesses, and communities.

"As a teacher in a rural area, I appreciate that Learn More About Climate has brought cutting-edge science to students who otherwise wouldn't have such incredible opportunities," said Cindy Gay, a Steamboat Springs High School science teacher who has incorporated Learn More About Climate resources into her classroom.

"Learn More About Climate's free, online resources have transformed my ecology unit into an authentic inquiry investigation about issues that matter to my students. The capstone of our studies was the Skype interview with a climate scientist. Over the past two years, Learn More About Climate has set up six Skype interviews for my classes. It has become the much-anticipated highlight of the unit."

Learn More About Climate is administered by CU-Boulder's Office for University Outreach, housed in the Division of Continuing Education. The Office for University Outreach is tasked with extending campus resources to external groups across the state. Learn More About Climate's CU-Boulder project partners include: the Institute of Arctic and Alpine Research, the Cooperative Institute for Research in Environmental Sciences, the National Snow and Ice Data Center, the Biological Sciences Initiative, the Department of Ecology and Evolutionary Biology, the Department of Geography, the Center for Science and Technology Policy, the Department of Theatre and Dance, and the Mortenson Center in Engineering for Developing Communities.

120 Seconds of Science

Learn More About Climate recently released a lively new video series entitled "120 Seconds of Science with Doc Ryan." In this series Ryan Vachon, a scientist, filmmaker, and extreme athlete, immerses himself in the laboratories and research stations of CU-Boulder scientists to find two-minute answers to questions about climate change. These high-energy videos respond to questions from teachers and K-12 students and bring adventure into Colorado classrooms.

Watch Doc Ryan and CU-Boulder faculty in action at **LearnMoreAboutClimate.colorado.edu/120seconds**.





Russ Richards
Financial Aid Advisor

“Continuing Education students each have a unique situation, and they are usually working through the financial aid process on their own. The process can be confusing, so we help students find a plan that works for them. This often includes providing them with options, like different funding sources, or new ways to configure their classes to match what they can afford each semester. I really like helping students get what they need to succeed.”

YOU’VE GOT QUESTIONS. WE’VE GOT ANSWERS.

Lifelong learning doesn’t mean putting your job, family, or life on hold - and no one understands that better than the staff at Continuing Education. We can help you sort through your academic options, identify financial aid resources, prepare for a career, and more. Visit conted.colorado.edu/student-resources to learn more or to schedule an appointment with an advisor.

GETTING STARTED

Academic Advising

Our academic advisors can help you sort through the university options and choose the best course of action. You will find helpful hints for preparing for your appointment at conted.colorado.edu/student-resources/academic-advising.

Financial Assistance

Our financial aid advisor can help you determine if there are funds available to help you meet your educational goals. Visit www.colorado.edu/finaid/continuinged.html for more information.

Nondegree students age 22 or older are eligible to apply for one of several Nontraditional Student Scholarships awarded each semester. An application and complete information including eligibility, requirements, and deadlines are available at conted.colorado.edu/student-resources/financial-aid.

Career Services

Our career advisor is available for comprehensive career counseling including career exploration and planning, job search assistance, and other career-related guidance. Nondegree students are eligible for eight individual career advising sessions each term they are enrolled. To schedule an appointment or for more information, visit conted.colorado.edu/student-resources/career-services.

CAREER EXPLORATION WORKSHOP

NCLS 1010

Want to discover a career passion? Begin to identify who you are through your interests, values, skills, and personality type, in addition to exploring how this information relates to a career. We will integrate various methods for self-assessment and tracking career passions. This hands-on class will assist you in finding a career direction that will bring job satisfaction, whether you are making a career change or just beginning to enter the job market. After the class, you will also have access to the Continuing Education career advisor.

Dahlia Smith, LCSW, is the Career Advisor at Continuing Education. She has been counseling job seekers and changers for over 14 years.

Wednesdays, April 10-May 22 (no class May 1), 11 am - 1 pm, Continuing Education Center 140, 6 sessions. \$190.

Plan ahead! Wednesdays, August 28-October 2, 11 am - 1 pm, Continuing Education Center 140, 6 sessions. \$190.

Registration for the August class will begin April 8.

ENROLLING IN UNIVERSITY CREDIT COURSES

If you would like to enroll in courses for University credit answer these questions to determine your next step.

Are you new to CU, or has it been more than 12 months since you enrolled in a course?

If yes, then please complete and submit the online Registration Application at conted.colorado.edu/enroll. We will process your application and send you an Invitation to Register, complete with all of the information you will need to enroll in courses using MyCUInfo.

Have you been enrolled in a CU course within the past 12 months?

If yes, give us a call at 303-492-5148 and we can activate your term record in about 2 minutes. You will then be able to enroll online via MyCUInfo at mycuinfo.colorado.edu.

ENROLLING IN THE CAREER EXPLORATION WORKSHOP

Visit conted.colorado.edu/enroll/noncredit for information on how to enroll, call our registration office at 303-492-5148, or visit us at 1505 University Avenue, Boulder.

Once you are enrolled, you will receive confirmation of enrollment including course meeting times and locations. If you have any questions about the registration process, call us at 303-492-5148.

STUDENT RESOURCES AND REGISTRATION INFORMATION

PAYING

Continuing Education offers a full service bursar/accounting office. You can pay your tuition by check, cash, credit card (VISA, MasterCard, or Discover), or online from your checking or savings account. Visit conted.colorado.edu/student-resources/accounting for more information.

For your convenience, you can use your credit card (VISA, MasterCard, or Discover) to pay for your credit course through MyCUInfo at mycuinfo.colorado.edu, by phone at 303-492-2212, or by fax at 303-492-5335. You can also visit our office at 1505 University Avenue.

If you need confirmation of enrollment and payment of tuition for employer reimbursement, please contact us at 303-492-2212 or by e-mail at cebursar@colorado.edu.

ADDITIONAL INFORMATION**Course Updates**

Occasionally information printed in this catalog changes. We encourage you to verify your course information such as course locations, cancellations, etc. before traveling to campus for your class. You will find the most up-to-date information at conted.colorado.edu.

We try to notify enrolled students of course changes by e-mail and telephone. We therefore encourage you to let us know if your contact information changes.

Student Privacy

You may elect to have directory information withheld about yourself. Please call or visit our office to receive the required form.

Disability Services

If you are a student with a disability, Disability Services can provide you with the tools, accommodations, and support services to engage fully in the academic environment. Visit www.colorado.edu/disabilityservices for more information.

Accessing Campus Services

As a Continuing Education student, you may be eligible to use the campus libraries and computer labs at no cost. To gain access to these campus services, please obtain a “no fees paid” sticker (available at the Continuing Education cashier’s desk) and bring the sticker and a photo ID with you when you plan to use the libraries or computer labs. You can also purchase a student ID, the Buff OneCard, for \$25 at the Buff OneCard office in the Center for Community, room N180, by presenting a copy of your student schedule and photo ID. Visit www.BuffOneCard.com for more information.

Severe Weather

Classes are held when scheduled. Continuing Education may cancel classes because of severe weather or if the Chancellor closes the campus. If you are concerned about traveling to your class, please call 303-735-5000 for a list of cancellations. Boulder campus closings are announced on local radio and television stations.

Books and Supplies

Required course materials are available at the CU Book Store in the basement of the University Memorial Center on campus. Call 303-492-6411 or visit www.cubookstore.com.

FAQS**How much will my course cost?**

Costs vary depending on the course. For the Career Exploration Workshop, you will find the cost at the end of the course listing. For Boulder Evening, tuition is different for Colorado residents and nonresidents. Independent Learning tuition is different depending on whether the course is undergraduate or graduate level. Information on tuition and residency can be found at conted.colorado.edu/student-resources/tuition.

Continuing Education tuition is charged separate from and in addition to other CU tuition. All tuition and refund determinations are subject to audit.

Where do I get a record of my classes?

If you need a record of your academic credit courses, request a transcript through MyCUInfo at mycuinfo.colorado.edu. You can also visit the CU Registrar’s website at registrar.colorado.edu/students/transcripts.html for other options.

For a record of your noncredit courses, e-mail our registration office at ceregistration@colorado.edu or call 303-492-5148.

Where is my class? Is there parking nearby?

Course locations are listed at the end of each course description. Many campus parking lots offer \$3.00 parking after 5 pm and on Saturdays. Some are free during evenings and weekends. The Campus Map at www.colorado.edu/campusmap gives both building and evening and weekend parking lot locations. To skip parking altogether, take the bus to campus.

What if my plans change and I have to drop my class?

Please let us know. Depending on when you drop a course, you may receive a full refund. Refer to each program description for refund policies after a course begins.

Please note: Nonattendance does not constitute withdrawal and you may still be charged for your courses unless you officially withdraw before the drop deadline.

Call us at 303-492-5148 or 800-331-2801 (TTY 303-492-8905) if you need any help or for additional information visit conted.colorado.edu.

Building Hours/Closures

Our office hours are 8 am to 5 pm Monday through Friday. Effective May 10 our hours will be 7:30 am to 4:30 pm Monday through Friday. CU-Boulder will be closed Friday, March 29; Monday, May 27; and Thursday, July 4.

**Alumni Discounts Available**

For more information visit conted.colorado.edu/student-resources/accounting/discounts

At the University of Colorado Boulder we are committed to building a campus community in which diversity is a fundamental value. People are different and the differences among us are what we call diversity—a natural and enriching hallmark of life. Diversity includes, but is not limited to, ethnicity, race, gender, age, class, sexual orientation, religion, disability, political viewpoints, veteran status, gender identity/expression, and health status. A climate of healthy diversity is one in which people value individual and group differences, respect the perspectives of others, and communicate openly.

Diversity is a key to inclusive excellence in education. A diverse learning environment better prepares all students for the world that awaits them. CU-Boulder is committed to enriching the lives of our students, faculty, and staff by providing a diverse campus where the exchange of ideas, knowledge, and perspectives is an active part of learning.

—from the Guidelines for Diversity Planning

The University of Colorado Boulder does not discriminate on the basis of race, color, national origin, sex, age, disability, creed, religion, sexual orientation, or veteran status 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.

University of Colorado Boulder Catalog (USPS 651-060). 1505 University Avenue, 178 UCB, Boulder, CO 80309-0178. Volume 2013, No. 2, March. Published four times a year: January, March, June/July, and October/November. Periodicals postage paid at Boulder, Colorado, and additional mailing offices. POSTMASTER: Send address changes to the University of Colorado Boulder Catalog, Continuing Education, University of Colorado Boulder, 178 UCB, Boulder, CO 80309-0178.

Continuing Education is part of the Colorado Statewide Extended Campus, higher.ed.colorado.gov/academics/ExtendedStudies. This publication was printed and mailed using funds generated solely by Continuing Education programs. Continuing Education regrets any printing errors, but accepts no liability for them.

Design: Vermilion. Photography: Drew Levin. Photo on page 11: Ink Lounge Creative. Copy: Shenna Fitzgerald. Printing: Frederic Printing. Cover and Summer Session photos courtesy of the University Photographers. Outreach photo courtesy of Danielle Perrot, INSTAAR and geography graduate student.

Division of Continuing Education
1505 University Avenue
University of Colorado Boulder
178 UCB
Boulder, CO 80309-0178
conted.colorado.edu



Printed on Forest Stewardship Council paper ensuring the highest standards of environmental and social responsibility. Share your catalog with friends, and recycle all appropriate materials. Thank you.

12019170

GATEWAY TO POSSIBILITY

The Division of Continuing Education serves as a gateway between students and the CU-Boulder campus. Undergraduate students can find classes that fit their schedule through Boulder Evening or Independent Learning with self-paced and term-based online courses. Local residents can explore their passion, discover a new one, or finish their degree through CU Complete. CU Continuing Education makes almost any pursuit possible.

