

SUMMER 12



CENTENNIAL CELEBRATION

1505 University Avenue, the Division of Continuing Education's current location as it appeared in the 1920s.

Loran D. Osborn, the first director for the division.

George Norlin, future CU president and library namesake. Norlin was one of the division's distinguished lecturers during its first year. For 100 years, the Division of Continuing Education at CU-Boulder has offered generations of students and community members access to the university's resources. The Department of Extension, as it was once called, was endorsed by the Board of Regents in 1911 and formally inaugurated in June 1912.

Our modern-day mission aligns with the early vision of our predecessors. Founding director and professor of sociology, Loran D. Osborn had an interest in the social problems of his day. His sentiments for continuing education as written in 1912 still ring true today:

Only a fortunate few have the privilege of being in residence at the University of Colorado. It is no longer conceivable that the university has exhausted its duty and opportunity by putting its educational equipment at the service of this comparatively small number of young people, important as this function is.

Its expert resources are too valuable an asset to the state to be thus limited. They should be at the disposal of individuals who cannot come within the college walls, and communities, which are seeking information and guidance in solution of the complex problems of modern life.

It was the appreciation of this fact on the part of the university, and its desire to be of the widest possible service in the state, that led to the organization of the University Department of Extension, and it is with this broad purpose and spirit that the department is being administered.

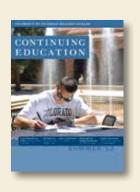
"

We are one-century strong, and we are delighted to commemorate 100 years of enriching lives and building community throughout 2012. We invite you to join in our centennial celebration. We are compiling stories about Continuing Education's impact on campus and in surrounding communities. Help us celebrate our first 100 years by sending your stories to conted-marketing@colorado.edu or call 303-492-3949.

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Let's get connected.

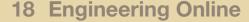
Visit **conted.colorado.edu/catalogs** to be placed on the permanent mailing list.

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.



University credit courses via online or correspondence—an excellent solution for disciplined independent learners.



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.













Topics in Writing: The Power of Language

DAWN COLLEY

"The way we understand ourselves and everything in the world around us is constructed through the frame of

LANGUAGE."

"If students can come to understand how language is being shaped in order to get them to accept or reject the premises that are defined by a speaker or writer, then they can make informed choices, rather than responding solely to the way language shapes a particular issue," says Dawn. "Likewise, as students improve their own language skills they become more productive communicators. They learn to shape language and tailor it to their audience."

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.



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

\$265 per credit hour

Out-of-state tuition

\$1,043 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 at **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 2012

Full Session – Section 300 (8 weeks)

Session 1 – Section 100 (5 weeks)

March 12: 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 28: University Closed.

June 4: Full Session and Session 1 classes begin.

Deadline to apply for Nontraditional Student Scholarship.

June 11: 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 \it{W} on your academic record and must be received in writing.

June 12: Instructor's signature required to withdraw from Full Session and Session 1 classes

June 18: 4:30 pm deadline to withdraw from Full Session and Session 1 classes with a 60% refund.*

June 20: Tuition due for Full Session and Session 1 classes.

June 25: 4:30 pm deadline to withdraw from Full Session and Session 1 classes with a 40% refund.*

June 26: Petition required to withdraw from Full Session and Session 1 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 12: 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 28: University Closed.

June 4: Deadline to apply for Nontraditional Student Scholarship.

July 4: University Closed.

July 10: Session 2 classes begin.

July 17: 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 18: Instructor's signature required to withdraw from classes.

July 24: 4:30 pm deadline to withdraw from Session 2 classes with a 60% refund*.

July 31: 4:30 pm deadline to withdraw from Session 2 classes with a 40% refund*.

August 1: Petition required to withdraw from Session 2 classes.

Petition Forms available at Continuing Education.

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



Matt MacKenzie

The World of Ancient Greeks

"I have never taken an art history class before, but I needed to fulfill a classical literature requirement. I decided ancient Greece would be a great place to start because it produced so many amazing thinkers and philosophers. I'm glad I took the class through Continuing Education because I am on the CU Snowboard team and taking the class at night enables me to practice with the team during the week."

BOULDER EVENING

COURSES BY START DATE

Course No.-Hours Sec. Class No. Times Course Title Core Resident Tuition

FULL SESSION - SECTION 300 (8 WEEKS)

Tuesday, Wednesday, and Thursday course begins June 5 and ends July 26

ARTS 3017-3 300 18175 5-8:15 pm Special Topics in Studio Arts: Digital Photography none \$1,020

SESSION 1 - SECTION 100 (5 WEEKS)

Tuesday and Thursday courses begin June 5 and end July 5

*ARTH 3109-3	100	18200	6-9 pm	Art in Contemporary Society	none	\$870
*MATH 2510-3	100	17890	6-9 pm	Introduction to Statistics	none	\$795
*PSCI 4012-3	100	18234	6-8:30 pm	Global Development	contemporary societies	\$795
SOCY 4024-3	100	17894	6-9 pm	Juvenile Delinquency	contemporary societies	\$795
*WRTG 3020-3	100	17895	6-9 pm	Topics in Writing: Power of Language– How you write is who you are	written communication	\$795

SESSION 2 - SECTION 200 (5 WEEKS)

Tuesday and Thursday courses begin July 10 and end August 9

*ARTH 1300-3	200	17887	6-9 pm	History of World Art 1	literature and the arts	\$870
*ARTH 4929-3	200	17897	6-8 pm	Special Topics in Art History: Russian Avant-Garde	none	\$870
*CLAS 1140-3	200	17899	6-8 pm	Bread and Circuses: Society and Culture in the Roman World	historical context	\$795
*IPHY 2420-3	200	17902	6-9 pm	Nutrition for Health and Performance	natural science	\$795
*THTR 1009-3	200	18202	6-9 pm	Introduction to Theatre	literature and the arts	\$840
*WRTG 3020-3	200	17904	6-9 pm	Topics in Writing: Power of Language– How you write is who you are	written communication	\$795

Tuesday, Wednesday, and Thursday course begins July 10 and ends August 9

 SPAN 2110-3
 200
 17903
 6-9 pm
 Second-Year Spanish 1
 foreign language
 \$815



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

Sociology course Topics in Population and Health: Death and Dying $LIANE\ PEDERSEN-GALLEGOS$

"We unintentionally abandon people who are grieving because we feel awkward and don't know what to say to them after 'I'm sorry for your

LOSS."

"Many people are not ready to deal with death, but we will all have to at some point. For those who find themselves grieving or otherwise facing death, an intellectual perspective can help them get their 'footing' and feel reassured about what they are going through," says Liane, who first started teaching this popular class in the 1980s. "Through online discussions and my introductions to the readings, I try to make the online class have a human connection."

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 or through the mail; 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.





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 and are offered in three formats:

Term-based Online Courses

Term-based online 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 Online Courses

Self-paced online 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.

Correspondence Courses by Mail

These courses are self-paced, allowing you up to a year to finish your course work (one-year extensions are also available). Follow a printed study guide and professor-student communication is conducted by regular mail and e-mail.

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).

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 NoHours	s Section	Class No.	Course Title	Core	Tuition
Session IL 3	– 10 we	eks: June	4 - August 10		
COMM 2400-3	581	18074	Discourse, Culture, and Identities	human diversity	\$978
COMM 2500-3	581	18075	Interpersonal Communication	none	\$978
COMM 3610-3	581	18078	Communication, Technology, and Society	none	\$978
ENGL 1600-3	581	18079	Masterpieces of American Literature	literature and the arts	\$978
ENGL 1800-3	581	18080	American Ethnic Literatures	human diversity	\$978
ENGL 3000-3	581	18081	Shakespeare for Nonmajors	literature and the arts	\$978
ENGL 3060-3	581	18083	Modern and Contemporary Literature	literature and the arts	\$978
ENGL 3060-3	582	18084	Modern and Contemporary Literature	literature and the arts	\$978
ENGL 3665-3	581	18108	American Literature after 1860	none	\$978
ENGL 4245-3	581	18110	American Novel 2	none	\$978
FILM 1002-3	581	18114	Film Analysis for Non-Majors	none	\$1,063
GEOG 4501-3	581	18119	Water Resources and Water Management of Western United States	none	\$978
GEOG 5501-3	581	18120	Water Resources and Water Management of Western United States	none	\$1,263
GEOL 1010-3	581	18121	Introduction to Geology	natural science	\$978
HIST 1010-3	581	18122	Western Civilization 1: From Antiquity to the 16th Century	historical context	\$978
HIST 1015-3	581	18123	History of the United States to 1865	United States context	\$978
HIST 1020-3	581	18124	Western Civilization 2: 16th Century to the Present	historical context	\$978

IMPORTANT DATES FOR TERM-BASED ONLINE COURSES

Summer 2012

	Session IL 3 (10 weeks)	Session IL 4 (8 weeks)	Session IL 1 (5 weeks)	Session IL 2 (5 weeks)
Registration Begins	March 12	March 12	March 12	March 12
Course Begins	June 4	June 4	June 4	July 9
4:30 pm deadline to enroll, add your name to a wait list, request pass/fail status, or drop with a 100% refund *†	June 11	June 11	June 11	July 17
4:30 pm deadline to withdraw with a 60% refund	June 18	June 18	June 18	July 24
Tuition Due	June 20	June 20	June 20	July 18
4:30 pm deadline to withdraw with a 40% refund	June 25	June 25	June 25	July 31
Course Ends	August 10	July 27	July 6	August 10

^{*} 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 NoHours	Section	Class No.	Course Title	Core	Tuition
HIST 1025-3	581	18125	History of the United States since 1865	United States context	\$978
HIST 1123-3	581	18126	Introduction to British History since 1660	historical context	\$978
IPHY 2420-3	581	18158	Nutrition for Health and Performance	natural science	\$978
IPHY 2420-3	582	18160	Nutrition for Health and Performance	natural science	\$978
JOUR 4301-3	581	18164	Media Ethics	none	\$978
JOUR 5301-3	581	18165	Media Ethics	none	\$1,263
MATH 1011-3	581	18166	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills	\$978
MATH 1012-3	581	18167	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills	\$978
MATH 1071-3	581	18168	Finite Mathematics for Social Science and Business	quantitative reasoning and mathematical skills	\$978
MATH 1081-3	581	18169	Calculus for Social Science and Business	quantitative reasoning and mathematical skills	\$978
MATH 1150-4	581	18170	Precalculus Mathematics	quantitative reasoning and mathematical skills	\$1,304
MATH 2510-3	581	18171	Introduction to Statistics	none	\$978
MUEL 1081-3	581	18092	Basic Music Theory	none	\$978
MUEL 2752-3	581	18094	Music in American Culture	United States context	\$978
PHIL 1000-3	581	18097	Introduction to Philosophy	ideals and values	\$978
PHIL 1400-3	581	18102	Philosophy and the Sciences	natural science	\$918
PHIL 2200-3	581	18103	Major Social Theories	ideals and values	\$978
PHIL 2390-3	581	18104	Philosophy and Psychology	none	\$978
PHIL 3180-3	581	18106	Critical Thinking: Contemporary Topics	none	\$978
PSCI 1101-3	581	18107	The American Political System	contemporary societies or United States context	\$978
PSCI 2012-3	581	18127	Introduction to Comparative Politics	contemporary societies	\$978
PSCI 2106-3	581	18128	Introduction to Public Policy Analysis	none	\$978
SOCY 1021-3	581	18131	United States Race and Ethnic Relations	United States context	\$978
SOCY 2031-3	581	18132	Social Problems	ideals and values	\$978
SOCY 2044-3	581	18133	Crime and Society	none	\$978
SOCY 2077-3	581	18134	Environment and Society	ideals and values	\$978
SOCY 3042-3	581	18135	Topics in Population and Health: Death and Dying	none	\$978
WRTG 1150-3	581	18136	First-Year Writing and Rhetoric	written communication	\$978
WRTG 1150-3	582	18137	First-Year Writing and Rhetoric	written communication	\$978
WRTG 3020-3	587	18146	Topics in Writing: Writing on the American West	written communication	\$978
WRTG 3030-3	582	18150	Writing on Science and Society	written communication	\$978
WRTG 3030-3	583	18151	Writing on Science and Society	written communication	\$978
WRTG 3040-3	581	18153	Writing on Business and Society	written communication	\$978
WRTG 3040-3	583	18155	Writing on Business and Society	written communication	\$978



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 4 – July 27

COMM 3310-3	581	18076	Principles and Practices of Argumentation	none	\$978
COMM 3320-3	581	18077	Persuasion in Society	none	\$978
ENGL 3000-3	582	18082	Shakespeare for Nonmajors	literature and the arts	\$978
ENGL 3563-3	581	18085	Early Shakespeare	none	\$978
IPHY 3430-3	581	18163	Introduction to Human Physiology	none	\$978

Session IL 1 – 5 weeks: June 4 – July 6

ATOC 1050-3	581	18072	Weather and the Atmosphere	natural science	\$978
PHIL 1100-3	581	18100	Ethics	ideals and values	\$978
WRTG 3020-3	581	18139	Topics in Writing: American Culture	written communication	\$978
WRTG 3020-3	582	18140	Topics in Writing: Food and Culture	written communication	\$978
WRTG 3020-3	583	18141	Topics in Writing: Sports in American Culture	written communication	\$978
WRTG 3020-3	584	18143	Topics in Writing: Environmental Writing	written communication	\$978
WRTG 3020-3	586	18145	Topics in Writing: Writing on The New York Times	written communication	\$978
WRTG 3030-3	581	18149	Writing on Science and Society	written communication	\$978
WRTG 3040-3	582	18154	Writing on Business and Society	written communication	\$978
WRTG 3090-1	581	18159	Open Topics in Writing: Advanced	none	\$326

Session IL 2 - 5 weeks: July 9 - August 10

ATOC 1060-3	581	18073	Our Changing Environment: El Niño, Ozone, and Climate	natural science	\$978
PHIL 3140-3	581	18105	Environmental Ethics	ideals and values	\$978
PSCI 2223-3	581	18129	Introduction to International Relations	contemporary societies	\$978
PSCI 3163-3	581	18130	American Foreign Policy	United States context	\$978
WRTG 3007-3	581	18138	Writing in the Visual Arts	written communication	\$978
WRTG 3020-3	588	18147	Topics in Writing: Writing on Music	written communication	\$978
WRTG 3040-3	584	18156	Writing on Business and Society	written communication	\$978
WRTG 3090-2	583	18162	Open Topics in Writing: Advanced	none	\$652



1923

HEALTHY EFFORT

Long before establishment of the medical campus, Continuing Education sponsored a series of community health conferences in more than 30 Colorado towns. Experts examined children in each community and gave parents and community leaders information to combat health problems.



INDEPENDENT LEARNING

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Course NoHours Section		Course Title	Core	Tuition	
ANTHROPO	LOGY				
ANTH 1030-3	650	Principles of Anthropology 1	none	 \$978	
ANTH 1040-3	650	Principles of Anthropology 2	none	\$978	
ANTH 2010-3	650	Introduction to Physical Anthropology 1	natural science	\$978	
ANTH 2020-3	650	Introduction to Physical Anthropology 2	natural science	\$978	
ANTH 2070-3	641	Bones, Bodies, and Disease	none	\$978	
ANTH 2200-3	650	Introduction to Archaeology	none	\$978	
ART AND A	RT HISTO	DRY			
ARTS 1012-3	640	Drawing for Non-Majors	none	\$978	
ARTS 1012-3	650	Drawing for Non-Majors	none	\$978	
ASTROPHY	SICAL AI	ND PLANETARY SCIENCES			
ASTR 1000-3	640	The Solar System	natural science	\$978	
ECOLOGY /	AND EVO	LUTIONARY BIOLOGY			
EBIO 1030-3	641	Biology: A Human Approach 1	natural science	\$978	
EBIO 1040-3	641	Biology: A Human Approach 2	natural science	\$978	
EBIO 4100-3	640	Advanced Ecology: Tropical Conservation	none	\$978	
ECONOMIC	S				
ECON 2010-4	640	Principles of Microeconomics	contemporary societies	\$1,304	
ECON 2020-4	640	Principles of Macroeconomics	contemporary societies	\$1,304	
ECON 3403-3	640	International Economics and Policy	contemporary societies	\$978	
ECON 4111-3	640	Money and Banking Systems	none	\$978	
EDUCATION	1				
EDUC 3621-3	641	Art for the Elementary Teacher	none	\$978	
EDUC 3621-3	651	Art for the Elementary Teacher	none	\$978	
EDUC 4161-3	640	Children's Literature	none	\$978	
ENGLISH					
ENGL 1260-3	640	Introduction to Women's Literature	human diversity	\$978	
ENGL 1500-3	640	Masterpieces of British Literature	literature and the arts	\$978	
ENGL 1600-3	641	Masterpieces of American Literature	literature and the arts	\$978	
ENGL 3000-3	641	Shakespeare for Nonmajors	literature and the arts	\$978	
ENGL 3060-3	641	Modern and Contemporary Literature	literature and the arts	\$978	
ENGL 3116-3	640	Topics in Advanced Theory: Postmodernism	none	\$978	
	0.40	Women Writers	none	\$978	
ENGL 3267-3	640				
	640	Chaucer: The Canterbury Tales	none	\$978	
ENGL 3267-3		Chaucer: <i>The Canterbury Tales</i> American Literature to 1860	none	\$978 \$978	



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

SELF-PACED COURSES (continued)

Course NoHou	rs Section	Course Title	Core	Tuition
ENVIRONM	ENTAL D	ESIGN		
ENVD 4365-3	640	Special Topics: Technology and Practice-Structures I	none	\$978
ENVD 4365-3	641	Special Topics: Technology and Practice-Structures II	none	\$978
ENVIRONM	ENTAL S	TUDIES		
ENVS 5001-3	640	Environmental Philosophy	none	\$1,263
GEOGRAPH	ΙΥ			
GEOG 1001-4	640	Environmental Systems 1: Climate and Vegetation	natural science	\$1,304
GEOG 1982-3	640	World Regional Geography	none	\$978
GEOG 1992-3	641	Human Geographies	none	\$978
GEOG 2412-3	640	Environment and Culture	none	\$978
GEOG 3251-3	640	Mountain Geography	none	\$978
GEOLOGICA	AL SCIEN	ICES		
GEOL 1010-3	641	Introduction to Geology	natural science	\$978
GEOL 1020-3	640	Introduction to Earth History	natural science	\$978
HISTORY				
HIST 1010-3	641	Western Civilization 1: From Antiquity to the 16th Century	historical context	\$978
HIST 1015-3	640	History of the United States to 1865	United States context	\$978
HIST 1020-3	641	Western Civilization 2: 16th Century to the Present	historical context	\$978
HIST 1025-3	640	History of the United States since 1865	United States context	\$978
JOURNALIS	M			
JOUR 1001-3	640	Contemporary Media Analysis	none	\$978
JOUR 3771-3	641	Media and Communication History	none	\$978
JOUR 4321-3	640	Media Institutions and Economics	none	\$978
MATHEMAT	ICS			
MATH 1021-2	650	Numerical and Analytical College Trigonometry	none	\$652
MATH 1071-3	651	Finite Mathematics for Social Science and Business	quantitative reasoning and mathematical skills	\$978
MATH 1081-3	651	Calculus for Social Science and Business	quantitative reasoning and mathematical skills	\$978
MUSIC				
MUEL 2752-3	640	Music in American Culture	United States context	\$978
PEACE AND	CONFLI	ICT STUDIES		
PACS 3800-3	640	Topics in Peace and Conflict Studies	none	\$1,003



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

INDEPENDENT LEARNING

Course NoHours	s Section	Course Title	Core	Tuition
PHILOSOPH	Y			
PHIL 1000-3	650	Introduction to Philosophy	ideals and values	\$978
PHIL 1100-3	640	Ethics	ideals and values	\$978
PHIL 1100-3	650	Ethics	ideals and values	\$978
PHIL 1600-3	650	Philosophy and Religion	ideals and values	\$978
PHIL 3140-3	640	Environmental Ethics	ideals and values	\$978
PHIL 4040-3	650	Studies in 20th Century Philosophy	none	\$978
PHIL 5240-3	640	Seminar in Environmental Philosophy	none	\$1,263
PSYCHOLOG	GY			
PSYC 1001-3	641	General Psychology	none	\$978
PSYC 1001-3	642	General Psychology	none	\$978
PSYC 1001-3	650	General Psychology	none	\$978
PSYC 2012-3	641	Biological Psychology 1	natural science	\$978
PSYC 2022-3	650	Biological Psychology 2	natural science	\$978
PSYC 2145-3	641	Introductory Cognitive Psychology	none	\$978
PSYC 2606-3	640	Social Psychology	contemporary societies	\$978
PSYC 3101-4	641	Statistics and Research Methods in Psychology	none	\$1,304
PSYC 4303-3	641	Abnormal Psychology	none	\$978
PSYC 4456-3	640	Psychology of Personality	none	\$978
PSYC 4511-3	641	History of Psychology	none	\$978
PSYC 4684-3	641	Developmental Psychology	none	\$978
SOCIOLOGY	,			
SOCY 1001-3	641	Introduction to Sociology	contemporary societies	\$978
SOCY 1016-3	640	Sex, Gender, and Society 1	human diversity	\$978
SOCY 4014-3	640	Criminology	none	\$978
SOCY 4021-3	641	Conflict Management in Social Systems	none	\$1,003
SOCY 4086-3	641	Family and Society	none	\$978



Lilia Rabia

Learning Assistant for Calculus for non-majors

"I facilitate online weekly discussions among the students to get them interacting with one another, solving problems together, and building off of each other's thoughts and ideas. I think that interaction around real-world examples helps them gain a better understanding of the concepts they are learning in class. It is really interesting to see how much students can learn from each other in an online setting."

Section Information: 64X = online, self-paced, 65X = print-based correspondence

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, the academic departments, meet the faculty, and earn credit.

We will soon be accepting applications for the fall 2012 semester. Registration begins Friday, August 24, and classes begin Monday, August 27. Call 303-492-5148 for more information or visit **conted.colorado.edu/access**. Our capable staff can provide academic, 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 www.CollegeInColorado.org.

High School Concurrent Program

High School students interested in the challenge of university course work may enroll in credit courses at CU-Boulder during the summer. In addition to earning college credit, you may be able to use the credit toward high school graduation requirements. Participation requires written permission from both a parent/guardian and a high school counselor/principal. Daytime, evening, and online courses are available. Evening and online course information can be found in this catalog. For information about daytime summer courses, visit www.colorado. edu/summer. Visit conted.colorado.edu/ highschool, call 303-735-5456, or e-mail kathryn.tisdale@colorado.edu 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 at CU.

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

Brooke O'Neal

Calculus for Social Science and Business

"The instructor was incredible and I really learned a lot. He helped explain material I was having trouble with, and after grading my homework, he would explain where I went wrong so that I could learn from my mistakes. I liked the self-paced aspect of the online class. I managed my time efficiently and stayed on top of my homework."





WHERE TO BEGIN YOUR NEXT CAREER

The pre-medical post-baccalaureate 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 other healthcare-related professional 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.

Applications for the 2013 class will be accepted on a rolling basis beginning in December, 2012.

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 meaningful experiences in a healthcare setting (such as shadowing, volunteering with patients, or employment in a healthcare field).
- an interest in graduate study in an area of medicine or other healthcare-related 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. All students in the program take the following classes:

Summer

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

Fall

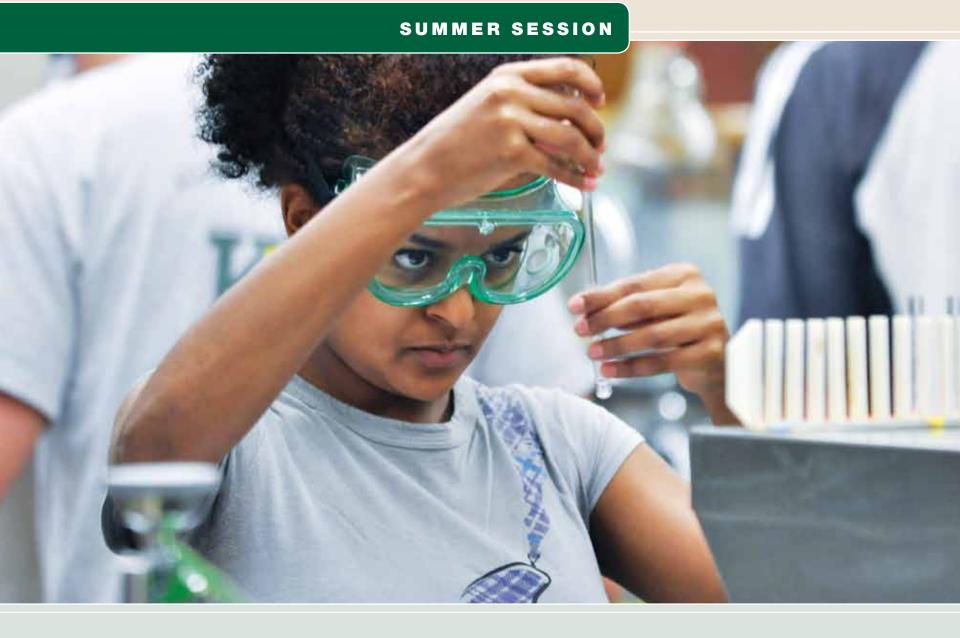
- Introduction to Cellular and Molecular Biology with Lab
- Organic Chemistry 1 with Lab
- General Physics 1 with Lab

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.

For more information visit **premed.colorado. edu** or e-mail **postbacmd@colorado.edu**.



MAKE THE MOST OF YOUR 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:

FIRST (Faculty-in-Residence Summer Term)

Learn from prestigious, world-class faculty that teach on the Boulder campus during summer. 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 2012 catalog.

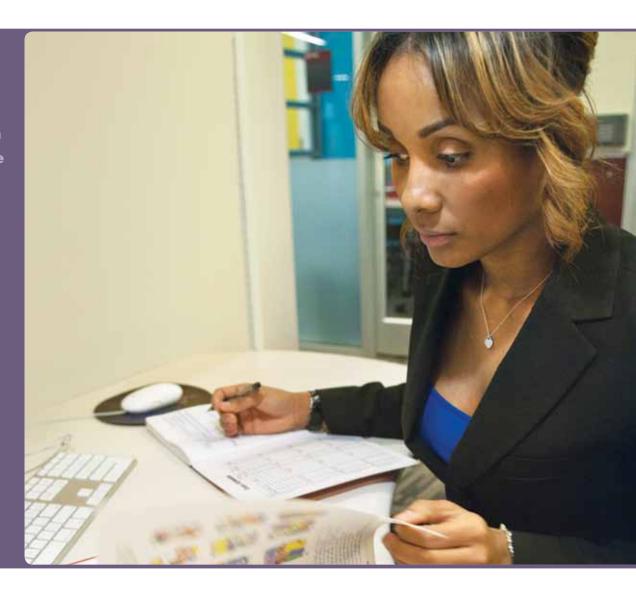
Summer 2012 Schedule

Session M (Maymester): May 14–June 1
Session A (5 weeks): June 4–July 6
Session B (5 weeks): July 10–August 10
Session C (8 weeks): June 4–July 27
Session D (10 weeks): June 4–August 10

CU COMPLETE SERVICE

Treanna Dennis

"I have always excelled in school until an accident ended my college career. With my ability to complete simple tasks severely diminished, I was placed on academic probation and eventually scholastic dismissal. My goal of completing my degree at CU seemed impossible. When I learned about CU Complete it was like some kind of miracle. I'm planning to graduate in 2013 with a **BS** in Communications. After that, I hope to go to business school for my MBA. It feels good to be closer to my goal and I look forward to making my family proud!"



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.**



1942

HELP ON THE HOME FRONT

During World War II, the division provided service people and civilians direct defense-oriented training and indirect programs, such as, Aircraft Design, Toxicology in Defense Industries, and Elementary Machine Design.



Network Management and Operations

MARK DEHUS

"The heart of the class is the

INTERSECTION

between programming and network management."

"Whether my students want to work on the policy aspect of network management or to become more efficient and effective network engineers, this class teaches them the basic concepts of programming and the techniques to make their lives easier," says Mark, who learned much of what he knows on the job. "Increasingly, network managers are responsible for larger, more complex systems. They need to know how to work in both large-scale and smaller-scale settings."

Imagine sitting in your own home or office taking graduate-level classes from one of the top-ranked engineering schools in the nation. Ranked 36th overall and 21st among public engineering programs nationwide (*U.S. News and World Report 2012*) 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 learning. Through CAETE, the distance learning 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 learning 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? With 24/7 distance access you can get started today!

Advanced Degrees

Earn a master's degree in:

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

Certificates

- Aerospace Engineering:
 - Astrodynamics and Satellite Navigation Systems
- Electrical/Computer Engineering:
 - Embedded Systems
- Power Electronics
- Software Engineering
- Engineering Management:
 - Engineering Management
- Entrepreneurship
- Leadership and Ethical Decision Making
- Managing Applied Research in Technology
- Managing R&D
- Performance Excellence in Technology Management
- Project Management





- Quality Systems for Product/ Process Engineering
- Six Sigma
- Technology Ventures & Product Management
- Telecommunications
 - Computer and Network Security
 - Energy Communication Networks
 - Network Architecture
 - Telecommunications Policy
 - Wireless Networks and Technologies

Short Courses

Take these 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 class-room. Typical courses offered each semester are in the areas of Cisco® networking and project management.

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 may receive a 10% tuition discount on our noncredit courses. Proof of status must be provided at the time of registration. CU-Boulder students who are enrolled at least half time in credit courses are eligible for a 10% tuition discount on our noncredit courses.

Course Schedule Information

CUEngineeringOnline.colorado.edu 303-492-6331

caete@colorado.edu

Professional Development Courses

Students may enroll any time within the indicated semester/session (except for CACI 8001). Any of these courses may be completed before the end date, but requirements must be completed by the end date.

Course No-Section	Title	Start	End	Time/Sessions	Instructor	Tuition
CACI 8001-141	Introduction to Cisco® Networking: CCNA	6/4/12	8/10/12	Online	Santos	\$1,955
CASP 5201-141	Project Management Basics	6/4/12	8/10/12	Online	Kois	\$895
CASP 5211-141	PMP® Exam Prep	6/4/12	8/10/12	Online	Kois	\$1,295
CASP 5141-141	Introduction to Petroleum Reservoir Engineering	7/2/12	7/31/12	Online	Borengasser	\$1,295

Student Services Coordinator MICHELLE JACKSON

"I have been an international language student in both France and South America, so I can

UNDERSTAND

what a lot of our students are going through."

"Adjusting to the culture and language of a new country can be tough, but I also know the importance of getting out and experiencing your new country," says Michelle. "In addition to the more serious parts of my job, like helping students navigate their documentation needs, I also plan events for students. I want to help them have a full, multi-layered experience in the U.S. and Colorado."

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.

Intensive English Program

The Intensive English Program 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. Most students in this program are citizens and residents of other countries and have come to

the United States on student visas. However, we are happy to welcome new residents to our community in this intensive program.

The full Summer session is June 6–August 1 and there is a 4-week session from July 2–August 1.

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

The Intensive English Program (IEP):

- Prepares international students to enter a college or university in the U.S.
- Offers classes appropriate for professionals wanting to improve their English for work and for students wanting to study English intensively
- Focuses on improving communication by integrating language skills (listening, speaking, reading, writing)
- Offers 20 hours of core language instruction each week at eight proficiency levels:
 Introductory, Basic 1 and 2, Intermediate 1, 2, and 3, Advanced, and Advanced 2
- Offers 3 hours each week of optional elective classes at no additional cost
- Has an average class size of 12–15 students and uses the latest ESL teaching practices and materials
- Has instructors with master's degrees and teaching experience in intensive programs and abroad



- Offers opportunities for students to join in local community events to use their skills in real-life settings
- Has extensive university library facilities with a rich source of educational and research materials
- Makes University of Colorado courses available for advanced-level students with approval from the Director
- Has two computer labs for student use equipped with Internet access
- Issues certificates upon conclusion of studies
- Is fully accredited by the Commission on English Language Program Accreditation (CEA)
- Is a member of UCIEP, consortium of University and College Intensive English Programs, and AAIEP, the American Association of Intensive English Programs

College-Ready Curriculum (CRC)

The College-Ready Curriculum (CRC) enhances the IEC's Intensive English Program (IEP) by providing international students with detailed instruction in the academic skills and American academic cultural norms students need to succeed in American higher education.

The CRC is offered concurrently with the IEP and provides an additional six hours a week of instruction. When you participate in the CRC, you:

- Go beyond the academic language acquisition programs offered by traditional IEPs and develop a deeper understanding of American academic cultural norms
- Master a variety of study skills and time management aids to manage a university workload
- Participate in activities designed to increase your academic vocabulary and prepare you for both the TOEFL and IELTS
- Role-play and discuss expected classroom behavior and effective communication strategies

 Focus on tactics to avoid plagiarism and improve critical and creative thinking skills

The CRC program requires a basic level of English as well as demonstration of good attendance and good grades in the IEP.

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 **www.colorado.edu/iec** or call 303-492-5547.

Rockets for Junior Astronauts

HELEN YAMAMOTO

"Kids are so absolutely fascinated by everything.

If you snag their attention and keep them interested by teaching them what they want to know the

LEARNING

takes care of itself."

"One of the best things about teaching science to children, particularly when they're so young, is that they don't have a good foundation of knowledge yet, which also means they don't have preconceptions to work around," says Helen, who teaches astronomy to five and six year olds. "The kids are all extremely intelligent and they clearly want to learn. They are like sponges. It's fantastic."

ABOUT SCIENCE DISCOVERY

CU Science Discovery, established in 1983, collaborates with CU-Boulder science 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 various programs, CU Science Discovery impacts more than 30,000 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 CU's science, technology, engineering, and math (STEM) disciplines. Classes offer enthusiastic and knowledgeable teachers (often STEM graduate students with teaching experience), access to university and community resources, small class sizes (10-15 students), and a variety of laboratory and field experiences. Classes such as Power the Future, Virtual Composer, and Animal Behavior are designed to enrich student understanding and instill a desire to further explore science topics. This year, Science Discovery is introducing several new classes, including Bike-a-Tronics, Digital Media Arts, and - by popular demand - Lego MindStorms NXT! We also have several new opportunities for high school students, including Biotechnology and Video Podcast Production, so be sure to check out our complete class catalog online. From fossils to forensics to physics, Science Discovery's Class Program offers something for everyone!

SCIENCE DISCOVERY



School Programs: Classroom Workshops and 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 science education statewide. Science Discovery's interactive presentations and hands-on workshops introduce students to subjects across the STEM disciplines, including chemistry, physiology, optics, and nanotechnology. Each program's content and activities support the Colorado Academic Standards and enrich student learning through fun, hands-on experiences.

Science Explorers: Teacher Professional Development

Science Explorers is a unique professional development program that offers activitybased science workshops for 5th-8th grade teachers and their students. Small teams of teachers and students rotate through three different hands-on workshops, giving teachers the opportunity to observe how students respond to activities and allowing students to develop their own knowledge and leadership skills. In 2012, Science Explorers is teaming up with CU-Boulder's NSF-funded Critical Zone Observatory project to investigate the Earth's "Critical Zone," with a focus on the Boulder Creek Watershed. Through a series of interconnected workshops that examine "earth, water, fire, and ice," teachers and students examine the dynamic processes that shape our ecosystems and impact life on earth. Science Explorers workshops, conducted at 6 to 12 urban and rural sites throughout Colorado, including Longmont, Steamboat Springs, Sterling, and Salida, support the Colorado Academic Standards and provide attendees with materials and curriculum to use in their own classrooms.

Field Programs

Science Discovery provides a variety of opportunities for students and teachers to participate in science while exploring the great outdoors. Throughout the school year, Science Discovery offers field study programs that explore Colorado's ecosystems, focused on topics such as stream ecology and winter ecology on snowshoes. Science Discovery's Mountain Research Adventure, offered in collaboration with CU's Department of Ecology and Evolutionary Biology, provides high school students with 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.

CU SCIENCE DISCOVERY-SUMMER 2012 CLASSES

Science Discovery is getting ready for its biggest summer yet! The Summer 2012 schedule includes more than 220 week-long classes, including 38 NEW classes, that span a wide range of STEM disciplines. Science Discovery has carefully designed these classes to enable students to explore a variety of STEM topics and then build on what they have learned as they get older. Fun and engaging classes like Wild in the Woods and Junior Science Explorers introduce young students to the excitement of doing science hands-on! Middle school level classes, like Creative Engineering and Solar Racers, provide more depth and allow students to dive into topics of interest in more detail. High school workshops provide talented high school students with opportunities to work in CU laboratories and explore different STEM careers.

Summer 2012 classes run from May 29-August 3, with no classes held July 2-6.

CLASSES IN DENVER!

This summer, CU Science Discovery is offering classes at three Denver area sites: Community College of Denver (Auraria Campus), Denver Museum of Nature and Science, and the University of Colorado School of Medicine on the Anschutz Medical Campus. In partnership with these organizations, we are delivering an array of hands-on science experiences to the greater Denver metro area. Read on to see a sampling of Denver classes; for a full list of classes visit **sciencediscovery.colorado.edu** or call 303-492-7188.

Medical 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, including the Schools of Medicine, Dental Medicine, and Pharmacy. Through a combination of guest speakers, hands-on activities, and lab and facility tours, we'll learn about the role that new science and technology play in improving healthcare. Throughout the week, we'll follow a patient case study so that we can make a diagnosis and begin working on a patient plan. If you think you may 'want to be a doctor when you grow up,' this is the perfect course for you!

The Med School Experience is offered in partnership with the University of Colorado School of Medicine on the Anschutz Medical Campus. The class is led by CU medical students, with the assistance of Anschutz faculty and staff.

Body Works

Did you know that your body has more neurons than there are stars in the Milky Way? Or if you stretched your intestines from end to end, it would be as long as a school bus? Join us as we answer these questions and learn all about the human body. We'll explore how our organs work together to keep us healthy and strong!

Immersive Landscapes 1 and 2

Do you want to expand your digital photography skills? If so, join us in creating immersive panoramic digital photographic experiences for the digital dome. We'll use high-quality digital cameras to capture panoramic digital photos that we'll stitch together in Photoshop. Then, we'll use Adobe AfterEffects and the Navegar fulldome plugin

tool to master the panoramas to the dome with guidance of Dome staff. Immersive Landscapes 1 (180x360) and 2 (360x360) are offered in collaboration with Gates Planetarium at Denver Museum of Nature and Science and STEM-A.

Solar Racers

Here's a chance to build your dream model car powered by the renewable energy of the sun! We'll provide a solar panel, motor, wheels, axles, and expert advice for your one-of-akind vehicle that you creatively design and take home. Make it fast, fancy, futuristic, and fuel-less - and have fun! Throughout the design and building process, you'll gain an understanding of physics, electronics, and engineering. Investigate the trade-offs in designing your own solar car. How do motor size, gear ratios, torque, speed, and weight affect your overall performance? Then, get ready to race your fabulous, lightning speed car using only the power of the sun. At the end of the week, take your solar racer home to race another day!

HIGH SCHOOL WORKSHOPS

This summer, Science Discovery is launching a series of 1-3 week intensive workshops for talented high school students interested in STEM fields. Below you will find a sampling of Summer 2012 high school classes; for a full list of classes visit **sciencediscovery**. **colorado.edu** or call 303-492-7188.

Lunar Rover: Lego Robotics Mission to the Moon

Have you ever wanted to design your own space mission? In this intensive 3-week course, we will learn what makes the lunar surface such a challenging environment in which to operate, and how these challenges can be overcome. We'll use that knowledge to design and build robotically controlled LEGO Mindstorms NXT rovers for a mission to the lunar surface! Will the mission be a success? We'll find out when we test the rovers on a simulated lunar surface that is sure to give the team some surprises! This exciting new course is offered in collaboration with CU's Colorado Center for Lunar Dust and Atmospheric Studies (CCLDAS).

SCIENCE DISCOVERY

CU Science Update: Video Podcast Production

Have you ever wondered what it's like to be a TV reporter? Are you interested in how new scientific findings are communicated to public audiences around the world? Join us for an inside look at how science connects to broadcast journalism. In collaboration with CU-Boulder's Department of Journalism, we will work together in student teams to create a new episode of the award-winning video podcast *CU Science Update*. Through the process of creating science news stories, we'll learn writing, filming, and editing techniques. After the class, you'll be able to download your show from iTunesU and share it with your friends and family!

Biotechnology

Biotechnology is a rapidly advancing discipline with important implications in areas such as medicine, agriculture, and conservation biology. In this hands-on lab-based class, we will delve into the world of DNA, genetics, and biotechnology. We'll learn about DNA structure and function and extract our own DNA using simple household ingredients. We'll perform DNA fingerprinting to solve a mystery, and use an ELISA assay to examine the spread of a simulated viral epidemic. We'll also use gel electrophoresis to test for a genetically inherited disease, and learn how microarrays are used to evaluate gene expression.

Digital Media Arts: Your Digital Life

When it comes to finding inspiration for artistic expression, what's a better source than... YOU? Through this 3-week class series, we'll learn how new digital technologies can aid you in documenting, editing, and sharing your life experiences. In Virtual Composer, we will explore the possibilities of music in our everyday lives, by recording sounds and using software to create our own unique compositions. In Digital Video Production, we will use digital video and film-editing software to create movies that we can share with online communities. The series will culminate with Project 365: Your Life in Pictures, in which we will use digital cameras, computer software, and mobile apps to create our own online photo journals. This project will help us improve our photography skills as we capture and share online the highlights of our daily lives.

Note: each week-long class can be taken separately or the three classes may be taken together as a series (for a discounted rate).

Electromagnetism

Did you know that electricity can create a magnetic field and magnetism can create electricity? Learn the physics behind electromagnetic waves, as well as the different types of electromagnetic waves such as infrared, radio, microwave, and x-ray. Join us as we study different types of electromagnetic waves using devices such as lasers, microwaves, and radios. We will measure the speed of light and make a wireless TV/VCR connection. If you have always wondered how remote controls work or why your radio doesn't work in a tunnel, then Electromagnetism is for you!

MORE SUMMER 2012 HIGHLIGHTS

Science Discovery is thrilled to be offering 38 new classes this summer! Below is a small sampling of some of our new classes. Visit **sciencediscovery.colorado.edu** for a full list of classes or call 303-492-7188.

Muggle Magic: The Science of Harry Potter

Hogwarts Wizards are coming to CU! Join your fellow wizards-in-training as we participate in several favorite Hogwarts classes – including Potions, Herbology, and Astronomy. We'll learn how to make different liquids change color, fizz and foam, and produce light, explore the magical properties of plants, and study our sun, moon, and stars. We'll even take a turn at Quidditch, as we learn about the science of flight. Throughout the week, we'll also make (and sample!) favorite treats from Honeydukes! Don't miss this opportunity to explore the science behind Harry's wizarding feats – it's sure to be a magical time.

Bike-o-Tronics

In this class, we will learn all about gears, brakes, derailleurs, cranks, and other important bicycle parts. Through hands-on challenges, we'll explore the physics of balancing, steering, aerodynamics, and frame materials. Throughout the week, we will take a whole bike apart and put it back together while learning about each part individually.

Creative Engineering

Experience the fun world of 3D computer art and paper model construction. Using a computer program called HyperGami, we'll design customized shapes called polyhedra. With a click of the mouse, watch them "unfold" into 2D patterns. Then, print out your mathematical shapes and build them into beautiful paper models. Create a variety of incredible shapes, animal sculptures, and more! We'll explore the fascinating ideas at the intersection of mathematics and art such as symmetry, dimension, and how to "think" in three dimensions. HyperGami is freeware, so you'll be able to download this amazing software to use at home again and again!

Sustainability Project

Everybody is talking about sustainability, transition, and community resilience. It is more than a trend, it is a revolution driven by science, engineering, citizens, and communities. Join experts from across the CU and Boulder communities to explore what we are doing now, what we can do, where we are going, and how you can help build a brighter tomorrow. We will explore alternative energy, green building, carbon sequestration, transportation, local food systems, water resources, and more in a full week of experiments, handson projects, inquiries, and fun. We'll see what's happening at local farms, markets, homes, businesses, and industries, as well as at CU. Join the Sustainability Project and become part of the change!

SAVE THE DATE!

Science Discovery Summer Showcase

July 31, 2012, 4:30 – 7 pm

University Memorial Center, CU-Boulder Campus

- Hands-on science fun for the whole family
- See highlights from our summer classes
- Interactive stations featuring: robotics, digital media, biotechnology, renewable energy, physiology, gardening, science magic, and MORE!

Connecting with Colorado

JULIE CARR AND COLLIN SCHUSTER

"I love to read and there is nothing better than reading stories and poems written by kids. It is so

ENERGIZING.

It fuels me as a teacher."

"I meet kids who say they don't like to write, but then they become the most enthusiastic to participate and share their stories," continues Collin Schuster, a graduate student teacher for the Creative Writing Program. Created by associate professor Julie Carr, the program brings creative writing into public schools for third to fifth graders. "Years of teaching children still informs how I teach young adults today. My students are learning as much as the kids they teach," says Dr. Carr.

TEACHING KIDS THE WRITE STUFF

Associate Professor Julie Carr leads a group of graduate and undergraduate students who share their passion for creative writing with elementary classes in area schools. In a time when arts programs are often underfunded, the CU Writing Outreach Program extends CU-Boulder resources and unveils the talents within young writers.

Whether it is through a teacher, captivating prose, or a life experience, the inspiration to write begins with a spark. With support from a CU-Boulder Outreach Award, the CU Writing Outreach program ignites creativity at local elementary schools by helping young students discover the writer inside of each of them.

"Our aim is to provide a unique servicelearning experience for graduate and undergraduate students, build collaboration between the university and surrounding area schools, and offer a variety of resources to support learning through the literary arts," said Julie Carr, associate professor of English and CU Writing Outreach faculty advisor. During six- to eight-week residencies in the elementary schools, CU-Boulder students share their creative writing knowledge and experiences with students. The Writing Outreach Program provides CU students opportunities to gain experience in literature education while sharing the resources of the English department. Elementary school children and their teachers enjoy the extra attention and benefit from additional writing instruction.

Carr offers in-class support and teacher training for the CU undergraduate and graduate student writing mentors. She led a similar program in New York City before beginning the program at CU. Through her

experiences Carr has witnessed the reciprocal benefits for the students on both ends of the academic spectrum. Students gain new understandings of writing, and the project promotes a sense of civic responsibility and community involvement for CU faculty and student mentors.

During their weekly classroom visits, pairs of CU students introduce a variety of writing styles. Classes often begin with the children reading and discussing the craft of writing, followed by analyses of specific literary techniques demonstrated in the readings. For example, one week the CU mentors may develop the children's persuasive writing



skills by instructing the students to write a letter requesting admission into the Academy of American Adventurers; the next week the lesson may engage the young students' metaphorical minds by instructing them to describe a peach in all of its juicy details.

The young pupils come to think of themselves as writers, and at the end of each residency the students choose a batch of their favorite works to revise and publish in a bound, class anthology. The CU students visit their classrooms for one last visit of the semester at the class "book party."

"At the end of the residencies, we get these notes from students thanking us," said Collin Schuster, MFA student and CU Writing Outreach residency mentor and organizer. "Sometimes they say that they didn't see themselves as writers before, but now they do. And that's where it eventually ends up—they get published."

According to Schuster, both the CU mentors and the elementary school students leave the writing activities invigorated and the teachers we've worked with have been amazing.

"My sense is there is a real liveliness for everyone when we leave the classroom—for the kids, for the teachers, and us," he said. "I call it the 'wild sauce'. I totally love it. It's really fun to be a part of the car ride back to campus. I think we are all pretty jazzed."

About Outreach at CU-Boulder

Extending educational opportunities to the citizens of Colorado is a vital part of the university as well as the mission of Continuing Education. The Division is home of the Office for University Outreach, which supports campuswide outreach efforts and helps to extend the university's research, teaching, and creative resources with communities throughout Colorado and the world.

The office administers the CU-Boulder Outreach Committee, which delegates funding for outreach projects such as Dr. Carr's that extend faculty members' research, teaching, and creative work through mutually beneficial partnerships with external constituents. These awards are made possible through contributions made by Continuing Education along with funds from the Office of the Chancellor and the Office of the Provost. For more information about the Office for University Outreach and its programs, visit outreach.colorado.edu or e-mail us at outreach@colorado.edu.



George Zamarripa

Registrar

"I work with students on anything having to do with registration, so I meet all kinds of students in all different situations. I really enjoy meeting students who are dedicated and working to benefit their future. It feels good to be part of their success. At Continuing Education, we take the time to get down to what our students really need, whether it's answering questions they have struggled with, or showing them new options for their academic plan."

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 the 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 — whether it's for academic credit or noncredit. 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 counselor is available for comprehensive career counseling including career exploration and planning, job search assistance, and other career-related guidance. Students are eligible to meet with our career advisor each term in which 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.

Tuesdays, August 21-September 25, 5:45-7:45 pm, Continuing Education Center 140, 6 sessions. \$190.

Fall registration begins April 9.

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.

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 through the mail. If you have any questions about the registration process, call us at 303-492-5148.

Registration begins March 12 29

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 term based or self paced. 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

Through Thursday, May 10, our office hours are 8 am to 5 pm Monday through Friday. Beginning Friday, May 11 through Friday, August 17, our office hours will be 7:30 am to 4:30 pm. CU-Boulder will be closed Friday, March 30; Monday, May 28, and Wednesday, 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 2012, 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, highered.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: Ink Lounge Creative. Copy: Shenna Fitzgerald. Printing: Frederic Printing. Cover, Summer Session, and Science Discovery photos courtesy of the University Photographers.



Division of Continuing Education

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