

Continuing EDUCATION

UNIVERSITY OF COLORADO AT BOULDER CATALOG



Fall 2003

WELCOME

At the Division of Continuing Education we want to show you the University from a new perspective and help you achieve your educational aspirations. We believe learning should never stop and growth is always possible. That's why our mission is to give you the opportunity to benefit from the resources available at the University of Colorado at Boulder.

*Since your learning needs are unique, we offer a variety of educational programs – from courses for university credit to personal enrichment classes to career-boosting computer courses. It's your choice. Let us know how we can help you *learn...grow...become...**

NEW AND NOTEWORTHY

Here are just a few of the new choices for you this fall.

Boulder Evening

Christianity in American History
HIST 2746

Advertising in Society JOUR 4453

Criminology SOCY 4014

Personal Enrichment

German: Conversational Skills
for Advanced Beginners NCFL 201

How to Crack the
Online Magazine Market NC W 092

Computer Applications

New one-day workshops - see page 49


Tips and Tricks for Microsoft Office
Photoshop Immersion
Photoshop Elements Immersion
Extreme Programming

CENTER FOR ADVANCED ENGINEERING AND TECHNOLOGY EDUCATION (CAETE)

is a new partnership between Continuing Education and the College of Engineering and Applied Science offering master's degrees and certificates in engineering, computer science, and telecommunications. See page 25 for details.

COMPUTER TRAINING SERVICES

FOR BUSINESSES We now offer business computer applications classes held during the days, evenings, or weekends; customized training; or computer labs for rent. See page 55 for details.



CONTINUING
EDUCATION
CENTER

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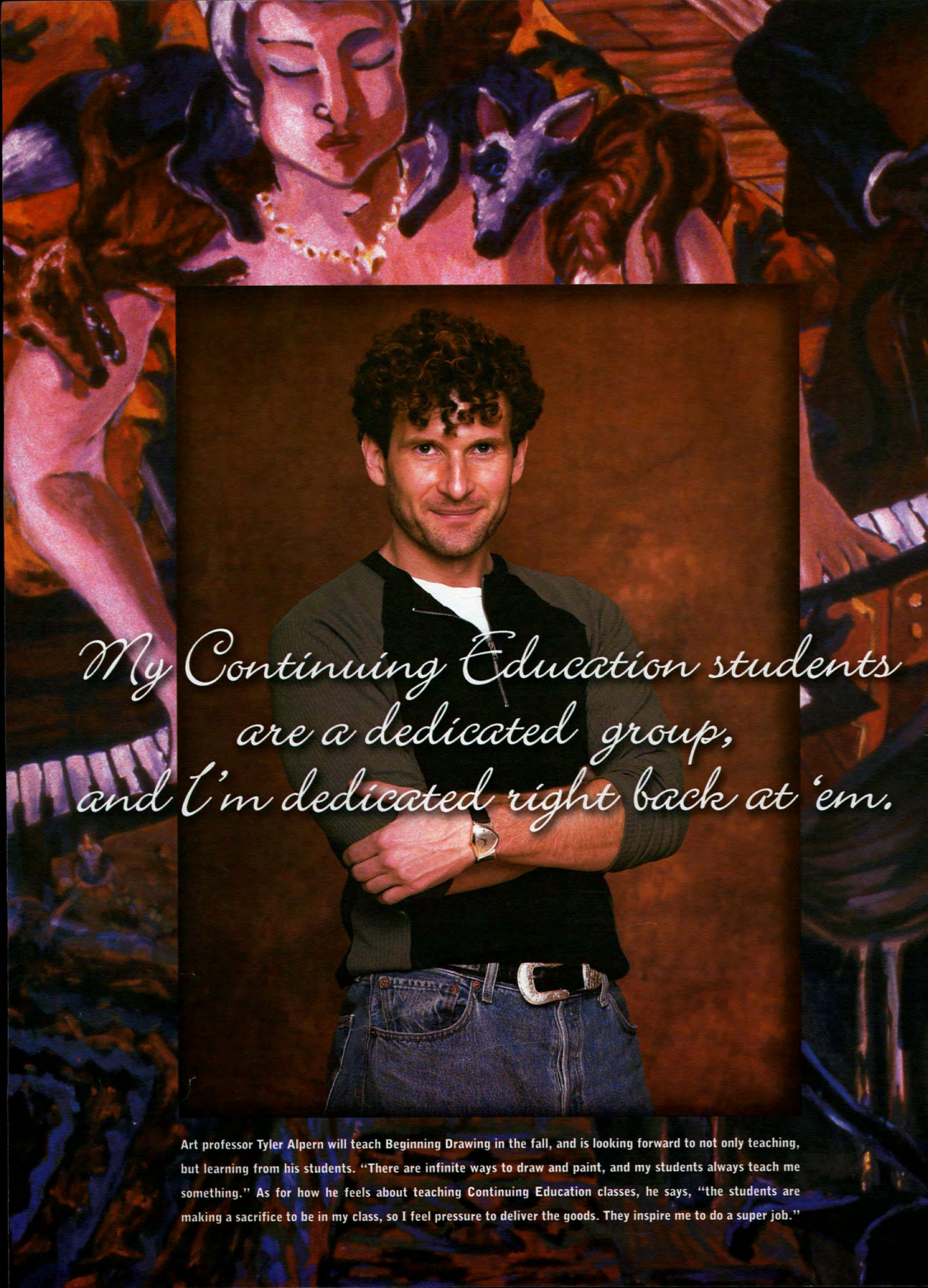
Noncredit/Certificate Registration Form

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CATALOG PRODUCTION

♻️ Catalog production is wholly self-sustaining and does not involve funds allocated by the legislature for the university at large. Recycled paper is used throughout the book. Share your catalog with friends, and recycle all appropriate materials. Thank you.



*My Continuing Education students
are a dedicated group,
and I'm dedicated right back at 'em.*

Art professor Tyler Alpern will teach Beginning Drawing in the fall, and is looking forward to not only teaching, but learning from his students. "There are infinite ways to draw and paint, and my students always teach me something." As for how he feels about teaching Continuing Education classes, he says, "the students are making a sacrifice to be in my class, so I feel pressure to deliver the goods. They inspire me to do a super job."

Boulder Evening Credit Program

BOULDER EVENING CREDIT courses offer you more options and more flexibility to help you continue your education while juggling the demands of a busy life. To understand exactly how Boulder Evening Credit courses fit into your program of study, make an appointment to talk to an advisor. Boulder Evening Credit courses provide solutions to help you:

- Begin your degree
- Complete your degree
- Fulfill core requirements
- Make a difficult schedule work better for you
- Pick up credits you've overlooked or postponed
- Try on the idea of applying to CU

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

Academic Advising: An academic advisor is available to help you plan a degree program, decide on a major, or simply explore your options. Feel free to call 303-492-8252 for an appointment.

Privileges: As a Boulder Evening Credit student, total library services are available at no additional charge.

Pass/Fail: Any course taken for pass/fail is subject to restrictions established by your school or college.

Final Grades: Final grades will be available approximately 2 weeks after the course ends. To check your final grade, see the "Grades" information on PLUS and Telephone Registration Information on page 16.

To Drop: To drop a credit course and ensure that you receive any tuition refund that may be due, come to the Division of Continuing Education and complete a drop voucher or petition form by the appropriate date. If you don't officially withdraw from a course, you may receive a grade of "F" for that course. Drop dates are listed on the calendar on page 4.

Tuition: Tuition is determined by residency status. Resident tuition is \$155 per credit hour. Some courses requiring special equipment or materials may be slightly higher.

Nonresidents of Colorado are assessed tuition based on the number of semester hours for which they register. Nonresidents may register for up to three (3) semester hours at the rate of \$372 per credit hour. Nonresidents registering for four (4) or more semester hours of Boulder Evening credit courses will be assessed a significantly higher rate that is comparable to the regular campus, nonresident rate.

The Division will charge our in-state rate when a nonresident degree student pays full out-of-state tuition through the Boulder campus and then enrolls for additional Boulder Evening credit courses.

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. Please see the calendar on page 4 for deadline dates to petition for in-state classification.

If you're not 23 years old by the first day of classes, you are assumed to have the same legal residence as your parents. If your parents live out of state, you may petition the University of Colorado for resident status as an emancipated minor. If you believe your initial classification is incorrect, talk to the Classification Coordinator at 303-492-5148.

Student Fees: Students have the option of paying student fees for use of campus facilities (RTD bus pass, Recreation Center, Wardenburg Health Center, and other student services). Information on cost and paying student fees may be obtained by calling 303-492-5148.

Financial Aid: Degree students may qualify for all financial aid programs if eligible. Nondegree students taking courses for credit may qualify for a Stafford Loan (formerly GSL) if eligible. Applications are available in the Office of Financial Aid, 303-492-4518, or visit the web site at www.colorado.edu/finaid/continuinged.html.

Scholarships: Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. August 11 is the fall application deadline. Scholarship awards range up to \$460. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/conted/scholar.htm.

Veteran Benefits: As an eligible veteran or veteran dependent, you may enroll in evening classes and apply credit toward a degree. If you have questions about your eligibility and benefits contact Veterans Services in the Office of Financial Aid, 303-492-7322.

Transcripts: Boulder Evening courses and grades are recorded on official University of Colorado transcripts. To request a transcript, visit the Registrar's web site at registrar.colorado.edu/support/transcripts.htm for information.

Final Exams: The final exam will be held the last day of the class. The last day of a class is available on the list of courses by start date on pages 5 and 6.

To Enroll: We encourage you to register in advance of the first class by PLUS, the automated telephone system, by mail, by FAX, or in person at the Division of Continuing Education, 1505 University Avenue.

Faculty and Staff Discounts: University of Colorado faculty and staff on at least a permanent, half-time appointment and retired faculty and staff may enroll in classes at a 50% tuition discount. Please provide proof of status with the University of Colorado when you register. Call 303-492-5148 for more information.

SURVIVAL TIP:

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



Boulder Evening Registration and Academic Calendar

FALL 2003

FULL TERM

August 4
Boulder Evening registration through PLUS and the automated telephone system begins 7 a.m.-midnight. Registration is also available by mail, fax, or in person at the Division of Continuing Education, 1505 University, 8 a.m.-5 p.m. Monday through Friday.

August 11
Deadline to apply for Nontraditional Student Scholarship.

September 1
Labor Day holiday. University closed.

September 2
Full Term classes begin.

September 12
Deadline to petition for in-state tuition classification for Full Term classes.

September 16
5 p.m. deadline to register for Full Term classes, add your name to a wait list, request pass/fail status, or drop with a 100% refund. Withdrawals from classes after this date will appear as a "W" on your academic record and must be received in writing.

September 17
Instructor's signature required to add or drop Full Term classes.

September 24
Tuition for Full Term due.

September 30
5 p.m. deadline to drop Full Term classes with a 60% refund.*

October 2-3
Fall Break. NO CLASSES.

October 14
5 p.m. deadline to drop Full Term classes with a 40% refund.*

October 15
Petition required to add or drop Full Term classes. Petition Forms documenting extenuating circumstances are available at Continuing Education.

November 25
Full Term Tuesday night classes will not be held. Full Term Thursday night classes will meet instead.

November 26
NO CLASSES.

November 27-28
Thanksgiving Holiday. University closed.

December 8-11
Full Term classes end.

SESSION I

August 4
Boulder Evening registration through PLUS and the automated telephone system begins 7 a.m.-midnight. Registration is also available by mail, fax, or in person at the Division of Continuing Education, 1505 University, 8 a.m.-5 p.m. Monday through Friday.

August 11
Deadline to apply for Nontraditional Student Scholarship.

September 1
Labor Day holiday. University closed.

September 2
Session I classes begin.

September 5
Deadline to petition for in-state tuition classification for Session I classes.

September 9
5 p.m. deadline to register for Session I classes, add your name to a wait list, request pass/fail status, or drop with a 100% refund. Withdrawals from classes after this date will appear as a "W" on your academic record and must be received in writing.

September 10
Instructor's signature required to add or drop Session I classes.

September 16
5 p.m. deadline to drop Session I classes with a 60% refund.*

September 23
5 p.m. deadline to drop Session I classes with a 40% refund.*

September 24
Petition required to add or drop Session I classes. Petition Forms documenting extenuating circumstances are available at Continuing Education.

Tuition for Session I due.

October 2-3
Fall Break. NO CLASSES.

October 20-21
Session I classes end.

**All refund requests must be received in writing.*

SESSION II

August 4
Boulder Evening registration through PLUS and the automated telephone system begins 7 a.m.-midnight. Registration is also available by mail, fax, or in person at the Division of Continuing Education, 1505 University, 8 a.m.-5 p.m. Monday through Friday.

August 11
Deadline to apply for Nontraditional Student Scholarship.

September 1
Labor Day holiday. University closed.

October 22
Session II classes begin.

October 27
Deadline to petition for in-state tuition classification for Session II classes.

October 29
5 p.m. deadline to register for Session II classes, add your name to a wait list, request pass/fail status, or drop with a 100% refund. Withdrawals from classes after this date will appear as a "W" on your academic record and must be received in writing.

October 30
Instructors signature required to add or drop Session II classes.

November 5
5 p.m. deadline to drop Session II classes with a 60% refund.*

Tuition for Session II due.

November 12
5 p.m. deadline to drop Session II classes with a 40% refund.*

November 13
Petition required to add or drop Session II classes. Petition Forms documenting extenuating circumstances are available at Continuing Education.

November 26
NO CLASSES.

November 27-28
Thanksgiving Holiday. University closed.

December 10-11
Session II classes end.

Classes by Start Date

FULL TERM CLASSES

Monday Courses, Begin September 8 and End December 8

Course No. & Hrs	Sec	Call #	Times	Course Title	Core
✓ ASTR 1110-3	300	90017	6-9 p.m.	General Astronomy: The Solar System	natural science
✓ ENGL 1191-3	300	90028	5:30-8:30 p.m.	Introduction to Creative Writing	none
✓ HIST 1010-3	300	90050	6-9 p.m.	Western Civilization 1: From Antiquity to 16th Century	historical context
✓ HIST 1608-3	300	90053	5:30-8:30 p.m.	Introduction to Chinese History	historical context
✓ HIST 2866-3	300	90057	6:30-9:30 p.m.	American History and Film	United States context
✓ LING 1000-3	300	90387	6-9 p.m.	Language in U.S. Society	United States context or contemporary societies
✓ MATH 1011-3	300	90064	6-9 p.m.	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills
✓ PHIL 1000-3	300	90066	6-9 p.m.	Introduction to Philosophy	ideals and values
✓ QRMS 1010-3	300	90073	6-9 p.m.	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills

Monday and Thursday Course, Begins September 4 and Ends December 11

✓ MATH 1300-5	300	90065	5:30-8:15 p.m.	Analytic Geometry and Calculus 1	quantitative reasoning and mathematical skills
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Monday and Wednesday Courses, Begin September 3 and End December 10

✓ ARAB 2110-3	300	90016	5-6:30 p.m.	Intermediate Arabic 1	foreign language
✓ FINE 1171-3	300	90040	6:45-9:15 p.m.	Photography 1	none
✓ SPAN 1010-5	302	90084	6-8:30 p.m.	Beginning Spanish 1	foreign language
✓ SPAN 1020-5	300	90085	6:30-9 p.m.	Beginning Spanish 2	foreign language

Monday, Wednesday, and Friday Course, Begins September 3 and Ends December 10

✓ HEBR 1010-5	300	90049	11 a.m.-1 p.m.	Beginning Hebrew 1	foreign language
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Tuesday Courses, Begin September 2 and End December 9

✓ ANTH 3010-3	300	90014	6:30-9:30 p.m.	The Human Animal	natural science
✓ BCOR 2050-3	300	90020	6-9 p.m.	Fundamentals of Marketing	College of Business Core
✓ COMM 2400-3	300	90023	6:30-9:30 p.m.	Communication and Society	contemporary societies
✓ ECON 1088-3	300	90025	6-9 p.m.	Mathematical Tools for Economists 2	none
✓ ENGL 3000-3	300	90033	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
✓ ENGL 3377-3	300	90036	6-9 p.m.	Topics in Multicultural Literature: American West	none
✓ EPOB 1210-3	300	90037	6-9 p.m.	General Biology 1	natural science
✓ HIST 2227-3	300	90055	6:30-9:30 p.m.	History of the American Southwest	United States context
✓ HIST 2746-3	300	90056	6-9 p.m.	Christianity in American History	United States context
✓ PSCI 1101-3	300	90068	6-9 p.m.	The American Political System	contemporary societies or United States context
✓ PSCI 2223-3	300	90070	5:30-8:30 p.m.	Introduction to International Relations	contemporary societies
✓ SPAN 2110-3	300	90086	6-9 p.m.	Second-Year Spanish 1	foreign language

Tuesday and Thursday Courses, Begin September 2 and End December 11

✓ BCOR 2000-4	300	90018	6:30-8:30 p.m.	Accounting and Financial Analysis 1	College of Business Core
✓ FINE 1012-3	300	90039	6:30-9:30 p.m.	Drawing 1	none
✓ FINE 1212-3	300	90041	6:30-9:30 p.m.	Painting 1	none
✓ SLHS 2315-4	300	90074	6-8 p.m.	American Sign Language 2	foreign language
✓ SPAN 1010-5	301	90083	6-8:30 p.m.	Beginning Spanish 1	foreign language
✓ WRTG 3020-3	300	90089	5:30-7 p.m.	Topics in Writing	written communication
✓ WRTG 3030-3	300	90090	5:30-7 p.m.	Writing on Science and Society	written communication

Boulder Evening

Wednesday Courses, Begin September 3 and End December 10

Course No. & Hrs	Sec	Call #	Times	Course Title	Core
✓ ECON 2010-4	300	90026	6-9 p.m.	Principles of Microeconomics	contemporary societies
✓ ECON 2020-4	300	90027	6-9 p.m.	Principles of Macroeconomics	contemporary societies
✓ ENGL 3060-3	300	90035	5:30-8:30 p.m.	Modern and Contemporary Literature	literature and the arts
✓ GEOG 3251-3	300	90047	6-9 p.m.	Mountain Geography	none
✓ JOUR 4453-3	300	90060	6:30-9:30 p.m.	Advertising and Society	none
✓ JOUR 4874-3'	300	90061	6:30-9:30 p.m.	Special Topics: Scriptwriting for the Entertainment Industry	none
✓ PHIL 1600-3	300	90067	6:30-9:30 p.m.	Philosophy and Religion	ideals and values
✓ PSYC 1001-3	300	90072	6:30-9:30 p.m.	General Psychology	none
✓ SOCY 1006-3	300	90077	6-9 p.m.	The Social Construction of Sexuality	cultural and gender diversity
✓ THTR 1009-3	300	90088	6-9 p.m.	Introduction to Theatre	literature and the arts

Thursday Courses, Begin September 4 and End December 11

✓ ANTH 2010-3	300	90013	6:30-9:30 p.m.	Introduction to Physical Anthropology 1	natural science
✓ COMM 1300-3	300	90022	6:30-9:30 p.m.	Public Speaking	none
✓ ECON 1078-3	300	90024	6-9 p.m.	Mathematical Tools for Economists 1	quantitative reasoning and mathematical skills
✓ FINE 1300-3	300	90042	6:30-9:30 p.m.	History of World Art 1	literature and the arts
✓ HIST 2103-3	300	90054	6:30-9:30 p.m.	The History of England to 1660	historical context
✓ KAPH 3420-3	300	90063	6-9 p.m.	Nutrition, Health, and Performance	natural science
✓ PSCI 2004-3	300	90069	6-9 p.m.	Survey of Western Political Thought	ideals and values
✓ SOCY 4014-3	300	90081	6-9 p.m.	Criminology	none
✓ SOCY 4024-3	300	90082	6-9 p.m.	Juvenile Delinquency	contemporary societies

SESSION I

Monday and Wednesday Courses, Begin September 3 and End October 20

✓ ENGL 1600-3	100	90030	6-9 p.m.	Masterpieces of American Literature	literature and the arts
✓ GEOG 1982-3	100	90045	6-9 p.m.	World Regional Geography	none
✓ HIST 1015-3	100	90051	6:30-9:30 p.m.	History of the United States to 1865	United States context
✓ SOCY 1004-3	100	90076	6-9 p.m.	Deviance in U.S. Society	ideals and values

Tuesday and Thursday Courses, Begin September 2 and End October 21

✓ ANTH 3160-3	100	90315	6-9 p.m.	Peoples of the South Pacific	none
✓ FILM 3563-3	100	90038	7-10 p.m.	Producing the Feature Film	none
✓ GEOG 1001-4	100	90043	6-9 p.m.	Environmental Systems 1 - Climate and Vegetation	natural science
✓ JOUR 1002-3	100	90059	6-9 p.m.	Critical Thinking and Writing	none
✓ SOCY 1015-3	100	90078	6-9 p.m.	U.S. Race and Ethnic Relations	United States context

SESSION II

Monday and Wednesday Courses, Begin October 22 and End December 10

✓ COMM 1210-3	200	90021	6:30-9:30 p.m.	Perspectives on Human Communication	contemporary societies
✓ ENGL 1260-3	200	90029	6-9 p.m.	Introduction to Women's Literature	cultural and gender diversity
✓ ENGL 3000-3	201	90031	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
✓ ENGL 3060-3	200	90034	6-9 p.m.	Modern and Contemporary Literature	literature and the arts
✓ GEOG 1992-3	200	90046	6-9 p.m.	Human Geographies	none
✓ HIST 1025-3	200	90052	6:30-9:30 p.m.	History of the United States since 1865	United States context
✓ KAPH 3420-3	200	90062	6-9 p.m.	Nutrition, Health, and Performance	natural science
✓ PSCI 4734-3	200	90071	6-9 p.m.	Politics and Literature	critical thinking

Tuesday and Thursday Courses, Begin October 23 and End December 11

✓ ENGL 3000-3	202	90032	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
✓ GEOG 1011-4	200	90044	6-9 p.m.	Environmental Systems 2 - Landscapes and Water	natural science
✓ GEOG 4742-3	200	90048	5:30-8:30 p.m.	Environments and Peoples	critical thinking
✓ JOUR 1001-3	200	90058	6-9 p.m.	Contemporary Mass Media	none
✓ SOCY 1001-3	200	90075	6-9 p.m.	Introduction to Sociology	contemporary societies
✓ SOCY 1016-3	200	90079	6-9 p.m.	Sex, Gender, and Society 1	cultural and gender diversity
✓ SOCY 3151-3	200	90080	6-9 p.m.	Self in Modern Society	United States context or ideals and values
✓ THTR 1009-3	200	90087	6-9 p.m.	Introduction to Theatre	literature and the arts

ANTHROPOLOGY**Introduction to Physical Anthropology 1**
ANTH 2010

3 SEMESTER HOURS

Detailed consideration of human biology, humans' place in the animal kingdom, primate ecology, and fossil evidence for human evolution. Students may not receive credit for both ANTH 2010 and 2050. Approved for arts and sciences core curriculum: natural science.

Sue Woods, PhD

Full Term - Section 300: Call No. 90013
Thursdays, 6:30-9:30 p.m. Hale 240.
\$465 (resident).

The Human Animal
ANTH 3010

3 SEMESTER HOURS

Identifies genetic, anatomical, physiological, social, and behavioral characteristics humans share with other mammals and primates. Explores how these characteristics are influenced by modern culture. Prereq., ANTH 2010 and 2020, or equivalent. Approved for arts and sciences core curriculum: natural science.

Sue Woods, PhD

Full Term - Section 300: Call No. 90014
Tuesdays, 6:30-9:30 p.m. Hale 240.
\$465 (resident).

Peoples of the South Pacific
ANTH 3160

3 SEMESTER HOURS

Surveys traditional cultures and contemporary changes in Polynesia, Melanesia, and Micronesia. Prereq., at least junior standing or equivalent.

Mark Calamia, PhD

Session I - Section 100: Call No. 90315
Tuesdays and Thursdays, 6-9 p.m. Hale 260.
\$465 (resident).

ARABIC**Intermediate Arabic 1**
ARAB 2110

3 SEMESTER HOURS

This course is the first semester of second year Arabic and covers advanced grammar and conversation. ARAB 1010 is tentatively scheduled to be offered spring 2004. Prereq., ARAB 1020. Approved for arts and sciences core curriculum: foreign language.

Nadia Turk, PhD

Full Term - Section 300: Call No. 90016
Mondays and Wednesdays, 5-6:30 p.m.
McKenna 204. \$485 (resident).

ART AND ART HISTORY**Drawing 1**
FINE 1012

3 SEMESTER HOURS

Introductory course including pictorial design, life drawing, still life, and landscape, using varied drawing techniques and media. Recommended for BFA majors instead of FINE 1002. May not be repeated.

Tyler Alpern, MFA

Full Term - Section 300: Call No. 90039
Tuesdays and Thursdays, 6:30-9:30 p.m.
Fine Arts N298. \$515 (resident).

Photography 1
FINE 1171

3 SEMESTER HOURS

This course introduces techniques and concepts of photography as art and emphasizes photography as a means to formal and expressive ends. Students will master the technical aspects of black and white photography including the functions of the SLR camera, the enlarger, and the chemical process of developing and printing black and white negatives. Students must have full access to a working 35mm manual camera with a built in working light meter.

Greg Massey, MFA

Full Term - Section 300: Call No. 90040
Mondays and Wednesdays, 6:45-9:15 p.m.
Fine Arts C1B70. \$515 (resident).



A nontraditional college student, Cindy Schultz is a single mom who's getting her degree in architecture and planning. She took Cristine Milton's Human Geography as an elective and loved it. "We explored how a country's borders are drawn and how it affects the way people live. I now have a better understanding of what's going on in the world."

Painting 1
FINE 1212

3 SEMESTER HOURS

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. Recommended for BFA majors instead of FINE 1202. May not be repeated. Prereq., FINE 1010, and either FINE 1300 or 1400.

Susanna Cavalletti, MFA

Full Term - Section 300: Call No. 90041
Tuesdays and Thursdays, 6:30-9:30 p.m.
Fine Arts N103. \$515 (resident).

History of World Art 1
FINE 1300

3 SEMESTER HOURS

Surveys major art styles from the Paleolithic period through the Renaissance, including European, Asian, and the Pre-Columbian/ Islamic World. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Students may not receive credit for both FINE 1300 and FINE 1109. Approved for arts and sciences core curriculum: literature and the arts.

Christine Dupont-Patz, MA

Full Term - Section 300: Call No. 90042
Thursdays, 6:30-9:30 p.m. Humanities 1B80.
\$515 (resident).



Justin Moore, a CU undergrad, took Cristine Milton's Human Geography class and enjoyed the low student/teacher ratio, which is typical for a Continuing Education class. He also found the class times to be convenient, since he works during the day. "Everyone takes these classes more seriously after working all day. They appreciate that they can take a class after work."

ASTROPHYSICAL AND PLANETARY SCIENCES

General Astronomy: The Solar System ASTR 1110

3 SEMESTER HOURS

Examines principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Earth, moon, planets, Sun, and the origin of life. ASTR 1110 and 1120 may be taken in either order. Offers opportunities to attend nighttime observing sessions at Sommers-Bausch Observatory. Some sessions are at the Fiske Planetarium. Approved for arts and sciences core curriculum: natural science.

Joe Romig, PhD

Full Term - Section 300: Call No. 90017
Mondays, 6-9 p.m. Hale 270. \$465 (resident).

BIOLOGY

(SEE ECOLOGY AND EVOLUTIONARY BIOLOGY)

BUSINESS CORE

Accounting and Financial Analysis 1 BCOR 2000

4 SEMESTER HOURS

Builds a basic understanding of how information regarding a firm's resources and obligations is conveyed to decision makers both outside and within the firm. Focuses on the form and content of corporate financial statements. Students learn the principles of revenue and expense recognition as well as the basic accounting for assets, liabilities, and equities. In addition, introduces accounting and financial statement analysis for decision makers. This course is a core requirement for all Business majors. Prereq., sophomore standing.

Yanhua Yang, MS

Full Term - Section 300: Call No. 90018
Tuesdays and Thursdays, 6:30-8:30 p.m.
Business 352. \$620 (resident).

Fundamentals of Marketing BCOR 2050

3 SEMESTER HOURS

Examines how activities in organizations provide value to the purchasers of its products and services. Includes gathering information about consumers and competitors through research and information systems, applying knowledge and technology to the design of products and services, communicating information to consumers and organizational units, and pricing and distributing products and services. Also includes issues in global marketing, ethics and diversity, relationship marketing, and integrating marketing with financial analyses. This course is a core requirement for all Business majors. Prereq., ECON 2010 or 2020, any college level economics course.

Lizbeth Hafer, MS

Full Term - Section 300: Call No. 90020
Tuesdays, 6-9 p.m. Business 353.
\$465 (resident).

COMMUNICATION

Perspectives on Human Communication COMM 1210

3 SEMESTER HOURS

Surveys communication in a variety of contexts and applications. Topics include basic concepts and general models of communication, ethics, language and nonverbal communication, personal relationships, group decision making, organizational communication, and impact of technological developments on communication. Required for majors. Meets University's Minimum Academic Preparation Standards (MAPS) requirement for social science: general. Approved for arts and sciences core curriculum: contemporary societies.

Joel Guenther, MA

Session II - Section 200: Call No. 90021
Mondays and Wednesdays, 6:30-9:30 p.m.
Ketchum 120. \$465 (resident).

Public Speaking COMM 1300

3 SEMESTER HOURS

Covers theory and skills of speaking in various public settings. Treats fundamental principles from rhetorical and communication theory, and applies them to oral presentations.

Joel Guenther, MA

Full Term - Section 300: Call No. 90022
Thursdays, 6:30-9:30 p.m. Humanities 1B90.
\$465 (resident).

Communication and Society COMM 2400

3 SEMESTER HOURS

Seeks to increase students' awareness of the ways in which gender, dialect (ethnic, regional and social class), and cultural background influence communication behavior and its consequences. Deepens understanding of communication as a social process, making students more sophisticated observers and participants in their own and other cultures. Approved for arts and sciences core curriculum: contemporary societies.

Joel Guenther, MA

Full Term - Section 300: Call No. 90023
Tuesdays, 6:30-9:30 p.m. Hellems 137.
\$465 (resident).

ECOLOGY AND EVOLUTIONARY BIOLOGY

General Biology 1 EPOB 1210

3 SEMESTER HOURS

Introduces molecular, cellular, genetic, and evolutionary biology. Emphasizes fundamental principles, concepts, facts, and questions. Recommended for science majors who are not EPOB majors. Similar to EPOB 2050 and 2650. Approved for arts and sciences core curriculum: natural science.

Beth Bennett, PhD

Full Term - Section 300: Call No. 90037
Tuesdays, 6-9 p.m. Hellems 199.
\$465 (resident).

ECONOMICS

Mathematical Tools for Economists 1 ECON 1078

3 SEMESTER HOURS

Teaches mathematical skills and logical thinking for use in economics. Course is open to all majors. Topics include algebra, graphs, functions, and probability. Includes many "real-world" examples, such as investments, supply and demand, maximizing profits, and minimizing costs. Can be used to meet College of Business math requirement. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

William Mertens, PhD

Full Term - Section 300: Call No. 90024
Thursdays, 6-9 p.m. Economics 119.
\$465 (resident).

Mathematical Tools for Economists 2 ECON 1088

3 SEMESTER HOURS

Continuation of ECON 1078. Teaches mathematical skills for use in economics. Topics include derivatives, optimization, and integration. Illustrates skills with computer assignments and "real world" problems. Similar to MATH 1080, 1090, and 1100. Can be used to meet College of Business math requirement. Prereq., ECON 1078 or instructor consent.

William Mertens, PhD

Full Term - Section 300: Call No. 90025
Tuesdays, 6-9 p.m. Economics 119.
\$465 (resident).

Principles of Microeconomics ECON 2010

4 SEMESTER HOURS

Examines basic concepts of microeconomics, or the behavior and interactions of individuals, firms, and government. Topics include determining economic problems, how consumers and businesses make decisions, how markets work and how they fail, and how government actions affect markets. This section requires World Wide Web access for the online recitation. Students may not receive credit for ECON 2010 if they have received credit for ECON 1000 or 1001. Similar to ECON 1000 and 1001. Approved for arts and sciences core curriculum: contemporary societies.

William Mertens, PhD

Full Term - Section 300: Call No. 90026
Wednesdays, 6-9 p.m. Economics 119.
\$620 (resident).

Principles of Macroeconomics ECON 2020

4 SEMESTER HOURS

Provides an overview of the economy, examining the flows of resources and outputs, and the factors determining the levels of income and prices. Explores policy problems of inflation, unemployment, and economic growth. Students may not receive credit for ECON 2020 if they have received credit for ECON 1000 or 1001. Similar to ECON 1000 and 1001. Meets University's Minimum Academic Preparation Standards (MAPS) requirement for social science: general. Prereq., ECON 2010. This section requires World Wide Web access for the online recitation. Approved for arts and sciences core curriculum: contemporary societies.

Rachael Small, MBA

Full Term - Section 300: Call No. 90027
Wednesdays, 6-9 p.m. Economics 117.
\$620 (resident).

ENGLISH

Introduction to Creative Writing ENGL 1191

3 SEMESTER HOURS

Introduces techniques of fiction and poetry. Student work is scrutinized by the instructor and discussed in a workshop atmosphere by other students. May not be taken concurrently with ENGL 2021 or 2051. Not open to graduate students. May not be repeated.

George Moore, PhD

Full Term - Section 300: Call No. 90028
Mondays, 5:30-8:30 p.m. Hellems 220.
\$465 (resident).

Introduction to Women's Literature ENGL 1260

3 SEMESTER HOURS

The course is intended for both men and women and introduces literature by women in England and America. Topics include poetry as well as fiction in varying historical periods. The goal of the course is to acquaint students with the contribution of women writers to the English literary tradition and investigates the nature of this contribution. Same as WMST 1260. Approved for arts and sciences core curriculum: cultural and gender diversity.

Patricia Thompson, MA

Session II - Section 200: Call No. 90029
Mondays and Wednesdays, 6-9 p.m.
Museum Collections E155. \$465 (resident).

Masterpieces of American Literature ENGL 1600

3 SEMESTER HOURS

Enhances student understanding of the American literary and artistic heritage through an intensive study of a few centrally significant texts, emphasizing works written before the twentieth century. Approved for arts and sciences core curriculum: literature and the arts.

Patricia Thompson, MA

Session I - Section 100: Call No. 90030
Mondays and Wednesdays, 6-9 p.m.
Ketchum 120. \$465 (resident).

*(English continued)***Shakespeare for Nonmajors
ENGL 3000**

3 SEMESTER HOURS

Introduces students to Shakespeare's major works - the histories, comedies, and tragedies. May include nondramatic poetry as well. Prereq., sophomore standing. Approved for arts and sciences core curriculum: literature and the arts.

George Moore, PhD

Full Term - Section 300: Call No. 90033
Tuesdays, 5:30-8:30 p.m. Economics 13.
\$465 (resident).

Pamela Hadas, PhD

Session II - Section 201: Call No. 90031
Mondays and Wednesdays, 5:30-8:30 p.m.
Museum Collections E158. \$465 (resident).

Session II - Section 202: Call No. 90032
Tuesdays and Thursdays, 5:30-8:30 p.m.
Museum Collections E158. \$465 (resident).

**Modern and
Contemporary Literature
ENGL 3060**

3 SEMESTER HOURS

Close study of significant twentieth-century poetry, drama and prose works. Readings range from 1920s to the present. Prereq., sophomore standing. Approved for arts and sciences core curriculum: literature and the arts.

George Moore, PhD

Full Term - Section 300: Call No. 90035
Wednesdays, 5:30-8:30 p.m. Hellems 241.
\$465 (resident).

James McVey, PhD

Session II - Section 200: Call No. 90034
Mondays and Wednesdays, 6-9 p.m.
Ketchum 301. \$465 (resident).

**Topics in Multicultural Literature:
American West
ENGL 3377**

3 SEMESTER HOURS

Studies special topics in multicultural literature; specially designed for English majors. Topics vary each semester. May be repeated for a total of 6 credit hours for different topics. Prereq., sophomore standing.

James McVey, PhD

Full Term - Section 300: Call No. 90036
Tuesdays, 6-9 p.m. Ketchum 235.
\$465 (resident).

FILM STUDIES**Producing the Feature Film
FILM 3563**

3 SEMESTER HOURS

Designed to give students a behind-the-scenes look at the way production in the entertainment industry is structured and works, this course emphasizes the critical role the script plays in the production process. Students analyze story structure and components, and production values of various feature scripts. The course also focuses on the roles, functions, and relationships of writer, producer, director, and editor; the budget process; and all phases in the production process. Screenings in conjunction with script analysis will be featured. This course is designed to lead students into FILM 3501 which has a more hands-on approach to production. FILM 3501 or 3563 may be used for partial fulfillment of major requirements.

Frank Iannella, MA

Session I - Section 100: Call No. 90038
Tuesdays and Thursdays, 7-10 p.m.
Humanities 1B70. \$465 (resident).

FINE ARTS

(SEE ART AND ART HISTORY)

GEOGRAPHY**Environmental Systems 1 -
Climate and Vegetation
GEOG 1001**

4 SEMESTER HOURS

Introduces the atmospheric environment of the Earth: elements and controls of climate, and their implications for hydrology, vegetation, and soils. Emphasizes distribution of physical features across the Earth's surface and interactions between humans and their environment, especially those leading to global change on the decade to century time scale. Meets University's Minimum Academic Preparation Standards (MAPS) requirement for natural science: non-lab or lab. Approved for arts and sciences core curriculum: natural science.

Steve Welter, PhD

Session I - Section 100: Call No. 90043
Tuesdays and Thursdays, 6-9 p.m.
Benson Earth Sciences 185. \$620 (resident).

**Environmental Systems 2 -
Landscapes and Water**

GEOG 1011

4 SEMESTER HOURS

Introduces landscapes and flowing water, emphasizing the formation and geographic distribution of mountains, volcanoes, valleys, and deserts, and their shaping by rivers and glaciers. Includes field trips. Meets the University's Minimum Academic Preparation Standards (MAPS) requirement for natural science: non-lab or lab. Approved for arts and sciences core curriculum: natural science.

Steve Welter, PhD

Session II - Section 200: Call No. 90044
Tuesdays and Thursdays, 6-9 p.m.
Museum Collections E155. \$620 (resident).

**World Regional Geography
GEOG 1982**

3 SEMESTER HOURS

Involves an intellectual journey around the globe, stopping at major regions to study the people, their environments, and how they interact. Topics include the political/economic tensions in changing Europe, conflicts in Brazilian rain forests, transitions facing African peoples, and rapid changes in China. Meets University's Minimum Academic Preparation Standards (MAPS) requirement for social science: geography.

Cristine Milton, MA

Session I - Section 100: Call No. 90045
Mondays and Wednesdays, 6-9 p.m.
Guggenheim 2. \$465 (resident).

**Human Geographies
GEOG 1992**

3 SEMESTER HOURS

Examines social, political, economic, and cultural processes creating the geographical worlds in which we live, and how these spatial relationships shape our everyday lives. Studies urban growth, geopolitics, agricultural development and change, economic growth and decline, population dynamics, and migration exploring both how these processes work at global scale as well as shape geographies of particular places. Meets University's Minimum Academic Preparation Standards (MAPS) requirement for social science: geography.

Cristine Milton, MA

Session II - Section 200: Call No. 90046
Mondays and Wednesdays, 6-9 p.m.
Guggenheim 2. \$465 (resident).

Mountain Geography
GEOG 3251

3 SEMESTER HOURS

Surveys mountain environments and their human use with illustrations from temperate and tropical mountain areas.

Steve Welter, PhD

Full Term - Section 300: Call No. 90047
Wednesdays, 6-9 p.m. Guggenheim 205.
\$465 (resident).

Environments and Peoples
GEOG 4742

3 SEMESTER HOURS

Studies the interaction of people and the environment, including human adaptation and modification of environments, cultural interpretation and construction of landscapes, and natural resources and land management. May be taken twice. Topics vary. Restricted to junior and senior students. Approved for arts and sciences core curriculum: critical thinking.

Dylan Clark, PhD

Session II - Section 200: Call No. 90048
Tuesdays and Thursdays, 5:30-8:30 p.m.
Education 138. \$465 (resident).

HEBREW**Beginning Hebrew I**
HEBR 1010

5 SEMESTER HOURS

This is the introduction to Hebrew. HEBR 1010 is tentatively scheduled to be offered again in spring 2005. Approved for arts and sciences core curriculum: foreign language.

Uri Neil, JD

Full Term - Section 300: Call No. 90049
Mondays, Wednesdays, and Fridays,
11 a.m.-1 p.m. Continuing Education 140.
\$775 (resident).

HISTORY**Western Civilization 1:
From Antiquity to the 16th Century**
HIST 1010

3 SEMESTER HOURS

Surveys the development of Western civilization from its beginnings in the ancient Near East through the Reformation of the 16th century. Approved for arts and sciences core curriculum: historical context.

Richard Smith, PhD

Full Term - Section 300: Call No. 90050
Mondays, 6-9 p.m. Duane Physics G131.
\$465 (resident).

**History of the
United States to 1865**
HIST 1015

3 SEMESTER HOURS

Surveys American history from first settlement until end of the Civil War. Approved for arts and sciences core curriculum: United States context.

Merle Funk, PhD

Session I - Section 100: Call No. 90051
Mondays and Wednesdays, 6:30-9:30 p.m.
Ketchum 235. \$465 (resident).

**History of the
United States since 1865**
HIST 1025

3 SEMESTER HOURS

Surveys social, economic, political, and cultural development of the United States from the close of the American Civil War to the present. Approved for arts and sciences core curriculum: United States context.

Merle Funk, PhD

Session II - Section 200: Call No. 90052
Mondays and Wednesdays, 6:30-9:30 p.m.
Ketchum 235. \$465 (resident).

Introduction to Chinese History
HIST 1608

3 SEMESTER HOURS

Introduces student to Chinese civilization and to its historical evolution, from neolithic period to present. Focuses on social patterns, economic structure, intellectual trends, and political developments. Approved for arts and sciences core curriculum: historical context.

Marco De Martino, MA

Full Term - Section 300: Call No. 90053
Mondays, 5:30-8:30 p.m. Hellems 241.
\$465 (resident).



A Boulder graphic designer considering graduate school, Nicole Rousmaniere took Cristine Milton's Human Geography class because the subject matter intrigued her.

"It's fascinating. It's what you hear about in the news and what you don't hear about, but it still touches our lives."

Continuing Education classes allow you to sample subjects you may be interested in pursuing in grad school so you can make a more informed decision.

The History of England to 1660
HIST 2103

3 SEMESTER HOURS

Deals with Roman, medieval, and early modern periods. Covers the demographic, economic and social patterns, political and religious developments, and cultural changes that contributed to the formation of the English nation. Does not fulfill major requirements. Approved for arts and sciences core curriculum: historical context.

Jean McGinnis, PhD

Full Term - Section 300: Call No. 90054
Thursdays, 6:30-9:30 p.m. Engineering
Center CR 139. \$465 (resident).

History of the American Southwest
HIST 2227

3 SEMESTER HOURS

Covers major observations and criticisms central in shaping the history of the southwest. Restricted to non-history majors. Does not fulfill major requirements. Approved for arts and sciences core curriculum: United States context.

James Fell, PhD

Full Term - Section 300: Call No. 90055
Tuesdays, 6:30-9:30 p.m. Hellems 201.
\$465 (resident).

(History continued)

Psychology major Renata Way took Cristine Milton's Human Geography class because it fit into her schedule and fulfilled a requirement. It was her first class in the Continuing Education program, and she felt there was more student/teacher interaction than in some of her "regular" classes. She also thought it was "a cool class."

Christianity in American History HIST 2746

3 SEMESTER HOURS

Examines the history of religious life in America, with special attention to Protestant and Catholic traditions, as affected by (and affecting) changing historical contexts. Does not fulfill major requirements. Approved for arts and sciences core curriculum: United States context.

Phil Mitchell, PhD

Full Term - Section 300: Call No. 90056
Tuesdays, 6-9 p.m. Economics 205.
\$465 (resident).

American History and Film HIST 2866

3 SEMESTER HOURS

Teaches students to "read" films as historical documents, with an emphasis on the 20th century. Focuses on selected moments in U.S. history, studying the historical background, and viewing and critiquing relevant films. Does not fulfill major requirements. Approved for arts and sciences core curriculum: United States context.

James Fell, PhD

Full Term - Section 300: Call No. 90057
Mondays, 6:30-9:30 p.m. Economics 117.
\$465 (resident).

INTEGRATIVE PHYSIOLOGY

Nutrition, Health, and Performance KAPH 3420

3 SEMESTER HOURS

Highlights basic principles of nutrition and their relationship to health. Students may not receive credit for both KAPH 3420 and PSYC 2062. Prereq., junior standing (pre-nursing students are exempt). Approved for arts and sciences core curriculum: natural science.

Nanci Grayson, MS, RD, CDE

Full Term - Section 300: Call No. 90063
Thursdays, 6-9 p.m. Hellems 252.
\$465 (resident).

Luke Seaward, PhD

Session II - Section 200: Call No. 90062
Mondays and Wednesdays, 6-9 p.m.
Humanities 250. \$465 (resident).

JOURNALISM

Contemporary Mass Media JOUR 1001

3 SEMESTER HOURS

Examines the mass media's interaction with society and looks at journalism and the mass media in historical, intellectual, economic, political, and social contexts.

Jan Whitt, PhD

Session II - Section 200: Call No. 90058
Tuesdays and Thursdays, 6-9 p.m. Hellems 255.
\$465 (resident).

Critical Thinking and Writing JOUR 1002

3 SEMESTER HOURS

This course reviews grammatical and organizational principles, experiments with several rhetorical modes, summarizes and analyzes media texts, and teaches techniques for writing and editing clearly and effectively. Topics will include the use of library resources and computer databases to conduct basic research. Students study personal writing, informative writing, persuasive writing, and promotional writing. This course is required for students seeking admission to the School of Journalism and Mass Communication.

Jan Whitt, PhD

Session I - Section 100: Call No. 90059
Tuesdays and Thursdays, 6-9 p.m.
Ketchum 119. \$465 (resident).

Advertising and Society JOUR 4453

3 SEMESTER HOURS

This course will examine the criticisms and contributions of advertising in society and the economy.

Richard Goode-Allen, MA

Full Term - Section 300: Call No. 90060
Wednesdays, 6:30-9:30 p.m. Education 138.
\$465 (resident).

Special Topics: Scriptwriting for the Entertainment Industry JOUR 4874

3 SEMESTER HOURS

Introduces basic script writing skills and formats for broadcast and cable television situation comedies, dramas, and movies. Produced scripts will be analyzed for structure, story components, drama devices, and aesthetics. Students will write a script for a half hour television program or a full treatment for a larger project.

Frank Iannella, MA

Full Term - Section 300: Call No. 90061
Wednesdays, 6:30-9:30 p.m. Humanities 125.
\$465 (resident).

KINESIOLOGY AND APPLIED PHYSIOLOGY

(SEE INTEGRATIVE PHYSIOLOGY)

LINGUISTICS

Language in U.S. Society LING 1000

3 SEMESTER HOURS

Nontechnical exploration of the ways that language is used in America. Emphasizes language as a social institution and how values and goals of both public institutions and private groups shape and are shaped by language and its use. Meets University's Minimum Academic Preparation Standards (MAPS) requirement for social science: general. Approved for arts and sciences core curriculum: United States context or contemporary societies.

Adam Hodges, MA

Full Term - Section 300: Call No. 90387
Mondays, 6-9 p.m. Clare Small 208.
\$465 (resident).

MATHEMATICS**Fundamentals and Techniques of College Algebra
MATH 1011**

3 SEMESTER HOURS

Covers simplifying algebraic expressions, factoring linear and quadratic equations, inequalities, exponentials, logarithms, functions and graphs, complex numbers, and binomial theorem. Students may not receive credit for both MATH 1011 and 1000/1020. Prereq., one year of high school algebra or placement exam score for MATH 1000. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Monica Todd, MA

Full Term - Section 300: Call No. 90064
Mondays, 6-9 p.m. Engineering
Center CR 151. \$465 (resident).

**Analytic Geometry and Calculus I
MATH 1300**

5 SEMESTER HOURS

Topics include limits, derivatives of algebraic and trigonometric functions, applications of the derivative, integration, and applications of the definite integral. Students with credit in MATH 1080, 1090, and 1100 receive only 2 credit hours in MATH 1300. Students with credit in MATH 1300 may not receive credit in MATH 1081, 1310, or APPM 1350. Prereq., 2 yrs high school algebra, 1 yr geometry, and 1/2 yr trigonometry or MATH 1000 through 1040. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Ira Becker, PhD

Full Term - Section 300: Call No. 90065
Mondays and Thursdays, 5:30-8:15 p.m.
Hellems 247. \$775 (resident).

PHILOSOPHY**Introduction to Philosophy
PHIL 1000**

3 SEMESTER HOURS

Introduces fundamental topics of philosophy, e.g., knowledge, truth, universals, self, the mind-body problem, time, God, and value. Approved for arts and sciences core curriculum: ideals and values.

Ben Mahlberg, PhD

Full Term - Section 300: Call No. 90066
Mondays, 6-9 p.m. Ketchum 303.
\$465 (resident).

**Philosophy and Religion
PHIL 1600**

3 SEMESTER HOURS

Philosophical introduction to some of the central concepts and beliefs of religious traditions, focusing particularly on the question of the existence of God and on the relation between religious beliefs and moral beliefs. Approved for arts and sciences core curriculum: ideals and values.

Lee Speer, MA

Full Term - Section 300: Call No. 90067
Wednesdays, 6:30-9:30 p.m. Clare Small 104.
\$465 (resident).

POLITICAL SCIENCE**The American Political System
PSCI 1101**

3 SEMESTER HOURS

Emphasizes interrelations among levels and branches of government, formal and informal institutions, processes, and behavior. Approved for arts and sciences core curriculum: contemporary societies or United States context.

Vincent McGuire, PhD

Full Term - Section 300: Call No. 90068
Tuesdays, 6-9 p.m. Duane Physics G131.
\$465 (resident).

**Survey of
Western Political Thought
PSCI 2004**

3 SEMESTER HOURS

Studies main political philosophies and political issues of Western culture, from antiquity to 20th century. Approved for arts and sciences core curriculum: ideals and values.

Vincent McGuire, PhD

Full Term - Section 300: Call No. 90069
Thursdays, 6-9 p.m. Duane Physics G131.
\$465 (resident).

**Introduction to
International Relations
PSCI 2223**

3 SEMESTER HOURS

Introduces the field of international relations, with general survey of the theories, histories, and problems of historical and contemporary relations among state and nonstate actors. Students will discuss current issues and conflicts in world politics. Approved for arts and sciences core curriculum: contemporary societies.

Michael Kanner, PhD

Full Term - Section 300: Call No. 90070
Tuesdays, 5:30-8:30 p.m. Guggenheim 3.
\$465 (resident).

**Politics and Literature
PSCI 4734**

3 SEMESTER HOURS

Broadly examines political topics as they are presented in important literary works and analyzes the possibilities involved in using the literary mode to present political teachings. Prereq., junior or senior standing. Approved for arts and sciences core curriculum: critical thinking.

Loren Weinberg, PhD

Session II - Section 200: Call No. 90071
Mondays and Wednesdays, 6-9 p.m.
Economics 2. \$465 (resident).

PSYCHOLOGY**General Psychology
PSYC 1001**

3 SEMESTER HOURS

Surveys major topics in psychology: perception, development, personality, learning and memory, and biological bases of behavior.

Michael Freedman, PhD

Full Term - Section 300: Call No. 90072
Wednesdays, 6:30-9:30 p.m. Hellems 267.
\$465 (resident).

QUANTITATIVE REASONING AND MATHEMATICAL SKILLS

Quantitative Reasoning and Mathematical Skills QRMS 1010

3 SEMESTER HOURS

Promotes mathematical literacy among liberal arts students. Teaches basic mathematics, logic, and problem solving skills in the context of higher level mathematics, science, technology, and/or society. QRMS is not a traditional math class, but is designed to stimulate interest in and appreciation of mathematics and quantitative reasoning as valuable tools for comprehending the world in which we live. Same as MATH 1012. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Bernard Gillett, MA

Full Term - Section 300: Call No. 90073
Mondays, 6-9 p.m. Duane Physics G2B47.
\$465 (resident).

SOCIOLOGY

Introduction to Sociology SOCY 1001

3 SEMESTER HOURS

Examines basic sociological ideas including social relations, social interaction, social structure, and social change. Examples are drawn from societies around the world. Meets University's Minimum Academic Preparation (MAPS) requirement for social science: general. Approved for arts and sciences core curriculum: contemporary societies.

Lori Peek, MEd

Session II - Section 200: Call No. 90075
Tuesdays and Thursdays, 6-9 p.m. Hellems 241.
\$465 (resident).

Deviance in U.S. Society SOCY 1004

3 SEMESTER HOURS

Examines social construction of deviance in the U.S., emphasizing existing theory and research about such issues as deviant careers, deviant lifestyles, and processes of social control. Approved for arts and sciences core curriculum: ideals and values.

Anthony Cantrell, MA

Session I - Section 100: Call No. 90076
Mondays and Wednesdays, 6-9 p.m.
Hellems 199. \$465 (resident).

The Social Construction of Sexuality

SOCY 1006

3 SEMESTER HOURS

Discusses the social determinants of sexuality. Analyzes the economic, psychological, and cultural influences on human sexuality. Interactional perspective of human sexuality is presented. Same as WMST 1006. Approved for arts and sciences core curriculum: cultural and gender diversity.

Matthew Brown, PhD

Full Term - Section 300: Call No. 90077
Wednesdays, 6-9 p.m. Education 220.
\$465 (resident).

U.S. Race and Ethnic Relations SOCY 1015

3 SEMESTER HOURS

Examines race and minority problems in U.S. society, including psychological, social, and cultural sources of prejudice and discrimination. Same as ETHN 1015. Approved for arts and sciences core curriculum: United States context.

Katherine Lineberger, MA

Session I - Section 100: Call No. 90078
Tuesdays and Thursdays, 6-9 p.m.
Museum Collections E155. \$465 (resident).

Sex, Gender, and Society I SOCY 1016

3 SEMESTER HOURS

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical context of gender roles and status, and reviews major theories of gender stratification. Same as WMST 1016. Approved for arts and sciences core curriculum: cultural and gender diversity.

Katherine Lineberger, MA

Session II - Section 200: Call No. 90079
Tuesdays and Thursdays, 6-9 p.m.
Guggenheim 205. \$465 (resident).

Self in Modern Society SOCY 3151

3 SEMESTER HOURS

Using a variety of Eastern and Western perspectives, this course explores how modern social institutions and culture shape our personal experiences, how personal experiences can affect the nature of those institutions and culture, and how strategies can be developed for achieving balance between the individual and society. Prereq., SOCY 1001 and SOCY 2001, 3001, or 3011. Approved for arts and sciences core curriculum: United States context or ideals and values.

Anthony Cantrell, MA

Session II - Section 200: Call No. 90080
Tuesdays and Thursdays, 6-9 p.m.
Economics 117. \$465 (resident).

Criminology SOCY 4014

3 SEMESTER HOURS

Scientifically studies criminal behavior with special attention given to development of criminal law and its use to define crime, causes of law violation, and methods used to control criminal behavior. Prereq., SOCY 1001 or 1004.

Dorian Wilson, MA

Full Term - Section 300: Call No. 90081
Thursdays, 6-9 p.m. Humanities 190.
\$465 (resident).

Juvenile Delinquency SOCY 4024

3 SEMESTER HOURS

Examines the history, incidence, and prevalence of delinquent behavior, as well as theoretical explanations regarding why children become involved in criminal activity. Prereq., SOCY 1001 or 1004. Approved for arts and sciences core curriculum: contemporary societies.

Herbert Covey, PhD

Full Term - Section 300: Call No. 90082
Thursdays, 6-9 p.m. Hellems 267.
\$465 (resident).

SPANISH**Beginning Spanish 1**

SPAN 1010

5 SEMESTER HOURS

Offers students a firm command of Spanish grammar. Grammar is used as a point of departure for development of oral skills. Reading and writing are stressed to a lesser degree. Attendance at the language laboratory may be mandatory. Similar to SPAN 1150. Approved for arts and sciences core curriculum: foreign language.

Cassandra Cleavinger, MA

Full Term - Section 301: Call No. 90083
Tuesdays and Thursdays, 6-8:30 p.m.
Hellems 193. \$795 (resident).

Wendy Mendez, MA

Full Term - Section 302: Call No. 90084
Mondays and Wednesdays, 6-8:30 p.m.
Hellems 193. \$795 (resident).

Beginning Spanish 2

SPAN 1020

5 SEMESTER HOURS

This course is the second semester of beginning Spanish and is a continuation of SPAN 1010. Attendance at language laboratory may be mandatory. Prereq., SPAN 1010 or placement. Approved for arts and sciences core curriculum: foreign language.

Javier Garces, BA

Full Term - Section 300: Call No. 90085
Mondays and Wednesdays, 6:30-9 p.m.
Hellems 137. \$795 (resident).

Second-Year Spanish 1

SPAN 2110

3 SEMESTER HOURS

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Similar to SPAN 2150. Prereq., SPAN 1020 or 1150 with a grade of C- or better, or placement. Approved for arts and sciences core curriculum: foreign language.

Javier Garces, BA

Full Term - Section 300: Call No. 90086
Tuesdays, 6-9 p.m. Hellems 141.
\$485 (resident).

**SPEECH, LANGUAGE,
AND HEARING
SCIENCES****American Sign Language 2**

SLHS 2315

4 SEMESTER HOURS

Develops more complex vocabulary and grammatical structures, and an understanding of deaf culture. Classes are taught using ASL without the use of spoken English. Prereq., SLHS 2304 or equivalent. Approved for arts and sciences core curriculum: foreign language.

Willard Moers, MA

Full Term - Section 300: Call No. 90074
Tuesdays and Thursdays, 6-8 p.m.
Muenzinger E123. \$640 (resident).

THEATRE**Introduction to Theatre**

THTR 1009

3 SEMESTER HOURS

Introduces the varieties of theatrical art, past and present, contributions of the various theatrical artists to the total production, and the place of theatre art in today's society. Readings, lectures, and attendance at University theatre productions. Designed for nonmajors. Approved for arts and sciences core curriculum: literature and the arts.

David Steiner, PhD

Full Term - Section 300: Call No. 90088
Wednesdays, 6-9 p.m. Humanities 135.
\$465 (resident).

Session II - Section 200: Call No. 90087
Tuesdays and Thursdays, 6-9 p.m.
Humanities 135. \$465 (resident).

**WRITING AND
RHETORIC****Topics in Writing**

WRTG 3020

3 SEMESTER HOURS

Each instructor assigns two or more readings on a given topic. Students choose an essay, abstract its argument, analyze it, and agree or disagree with the author. They thus learn the principal modes of academic rhetoric: description, analysis, and argument. Approved for arts and sciences core curriculum: written communication.

Cultural Issues*Anne Bliss, PhD*

Full Term - Section 300: Call No. 90089
Tuesdays and Thursdays, 5:30-7 p.m.
Clare Small 302. \$465 (resident).

Writing on Science and Society

WRTG 3030

3 SEMESTER HOURS

Through selected readings and daily writing assignments, students examine ethical and social issues that arise in science and technology. Focusing on critical thinking, analytical and argumentative writing, and oral presentation, the course emphasizes effective communication with nontechnical audiences. Classes are conducted as workshops. Restricted to junior and senior engineering students, and junior and senior physical and biological science majors. Approved for arts and sciences core curriculum: written communication.

Donald Wilkerson, MA

Full Term - Section 300: Call No. 90090
Tuesdays and Thursdays, 5:30-7 p.m.
Chemistry 145. \$465 (resident).

Web and Telephone Registration Information

Boulder Evening and Independent Learning students may register for courses on the Web using Personal Lookup Services (PLUS) or on the automated telephone registration system¹. In order to register using the Web or telephone¹, you will need to:

- Return the registration form on page 59 to the Division of Continuing Education at 1505 University Avenue or fax to 303-492-3962.
- Complete the nondegree student application on the Web at www.colorado.edu/conted/nondegreeapp.htm.
- If you have been a continuing education credit student during the past 12 months, call us at 303-492-5148 and ask to have your student record “rolled forward” to the current semester.

After your registration form is processed, you will receive an **Invitation to Register** confirming your registration eligibility, and containing your CU student identification number (SID) and personal identification number (PIN). Your SID and PIN are required to register using PLUS or the automated telephone system¹. Please keep your PIN confidential. Use of web registration (PLUS) or the automated telephone registration system obligates you for any tuition charges as a result of adding any course.

Once you have registered, it is important that you verify your schedule. If you are taking Boulder Evening courses, your schedule can be adjusted through the dates listed on the academic calendar on page 4.

Web registration (PLUS) and the automated telephone registration system¹ are normally available Monday-Friday from 7 a.m.-midnight and Sundays from 11 a.m.-midnight. They are not available on Saturdays.

Use PLUS to conduct online course searches. At the PLUS home page choose “Planning Tools” and then Schedule Planner. Course Status is updated on a real-time basis; Schedule Planner is updated nightly.

If a course is closed, you may add your name to a wait list. This does not guarantee that you will be enrolled in the course. Check your wait list position often to avoid being charged additional tuition and fees, and receiving a grade of “F” for the course.

Some courses have prerequisites and enrollment restrictions. It is your responsibility to ensure that you have met the listed prerequisites and/or restrictions. If you are unsure, please call 303-492-8252 and make an appointment with our academic advisor.

If you have any type of registration stop, you will not be allowed to enroll using web registration (PLUS) or the automated telephone registration system¹. Please call our registration office at 303-492-5148 for more information on your stop. This information is also available on PLUS at www.colorado.edu/plus. Log on using your student ID number and PIN and choose the “Registration Status” tab at the bottom of the page.

If you need additional assistance, please call our registration office at 303-492-5148 between 8 a.m. and 5 p.m. Monday-Friday. If you need help after hours, a recorded message with helpful hints is available by calling 303-492-5145. Choose “5” for the automated telephone registration system¹ information.

Registration Planning Form

Complete this form before registering for courses through web registration (PLUS) or the automated telephone registration system. You need the five digit course call number for the courses you want to take. The Add Code, the Drop Code, and the # symbol in the shaded boxes on the form below are used for the automated telephone registration system* only.

ADD CODE	COURSE CALL NUMBER	Department Abbreviation	Course Number	Credit Hours	Enrolled or Waitlisted?
2	*	#
2	*	#
2	*	#
2	*	#

Register on the Web Using PLUS

You can access the PLUS system at the CU home page, www.colorado.edu, choose Resources for CU Students, and select PLUS (Personal Lookup Services) or go directly to the PLUS home page at www.colorado.edu/plus.

At the PLUS page, choose the “Registration Log-On” button. Enter your student ID number and personal identification number (PIN) and choose submit. At the registration menu, choose the “Register” tab at the bottom of the page. Follow the instructions to add or drop and request pass/fail or no credit. You will need to enter the 5 digit course call numbers to register for courses and click on the “submit” button to process each course request. To verify your course selections, click on the “Schedule” tab at the bottom of the page. To check your account balance, click on the “Account Balance” tab. When you’re finished, be sure to exit web registration.

Additional PLUS Features

With your student ID number and PIN you are also able to:

- confirm your degree program information (primary and secondary college, major, residency, GPA, and class standing)
- check your registration status (advising requirements, academic or financial stops)
- see your class schedule for all current and past terms enrolled, and all future terms for which you have registered
- see required textbooks
- order official transcripts
- print unofficial transcripts
- see your current semester billing and financial aid information
- change your address
- see your PIN changes
- perform a degree audit (for certain colleges)
- see current and past semester grades

Register Using the Automated Telephone Registration System¹

The automated telephone registration system will be retiring soon so please try web registration. However, the automated telephone system should be available through fall registration.

Call the automated telephone registration system, 303-938-8110, from any touch-tone phone to register. Use the confirmed registration function codes below.

the Boulder campus code 1

continuing education code 1

the registration application code 1

the term code 037

your University student number _____

your personal identification number (PIN) _____

To **add** a course, press 2*, the course call number, then #

To **drop** a course, press 3*, the course call number, then #

To request a course for **no credit**, press *1 between the course call number and #

To request a course for **pass/fail**, press *2 between the course call number and #

To **list** your courses, **verify** your schedule, or check your **wait list** position, press 5#

To **search** for open sections, press 7#

To place your name on a **wait list**, press 9#

To **cancel** an entry, press *# before you have completed the transaction

To **exit** the registration application, press 8# then 1 to access your account balance

To access your grades through the automated telephone registration system call 303-938-8110 from any touch phone, press 1 for the Boulder campus, 1 for continuing education, 2 for the grade code function and enter the term code (037 for fall) followed by your student number and PIN. To determine the term code for previous semesters, the first two digits are the year and the last digit the semester (1=spring, 4=summer, 7=fall).

Account Balances and Tuition Payments

Once you register for courses, you can find out your account balance on PLUS and the automated telephone registration system in addition to paying your tuition using VISA, MasterCard, or Discover credit cards. You can also call our accounting office at 303-492-2212 to make a credit card payment, fax your credit card information to 303-492-3962, or visit the Continuing Education Center at 1505 University Avenue.

You can also submit payments online from your checking and or savings account using the Payment Only Option, an electronic interface with your bank. More information is available at www.colorado.edu/conted/paymentonly.htm.

¹Automated Telephone Registration System to be Retired

The automated telephone registration system will be retired in the near future. If you use this system, you will need to use the Web to register for courses once the automated telephone registration system is retired. If you haven't tried registering via the Web, you may want to make the switch now. More information will be available at www.colorado.edu/conted or by calling 303-492-5148.



A man with dark hair and glasses, wearing a tan button-down shirt and blue jeans, stands with his hands in his pockets against a dark brown background. The background of the entire page is a scenic mountain landscape with a river and rocky terrain under a blue sky.

*In my Independent Learning class,
you can learn about literature anywhere,
even from the top of a mountain.*

Jim McVey, PhD, teaches Literary Analysis through the Independent Learning program. He encourages plenty of student participation, so you can get the feeling of being in a classroom even though the course is online. Jim "likes to see students get excited about the subject matter." So, he makes the study of literature "interesting, challenging and meaningful" by encouraging students to pursue individual readings. It's a convenient way to learn about great works from the comfort of your home or a mountain top.

Independent Learning Programs

INDEPENDENT LEARNING courses put you in control, with choices to make about when you learn and how you learn. Many of our courses are correspondence based, with a printed study guide and student-instructor communication by US Postal Service (and increasingly, by e-mail). Some of our courses also have an online version, and growing numbers of our courses are delivered only on the Web, with all communication with the instructor and fellow students conducted on the Internet.

- Self-paced courses are open for registration at any time.
- Term-based courses provide rich interaction among students.
- Learn wherever you are.



So, it's up to you to challenge yourself and to decide how you want to take a course. Complete course descriptions are available on the Web at www.colorado.edu/cewww. For additional information, visit our web site or call 303-492-5148.

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
ANTHROPOLOGY							
ANTH	1030	650	Principles of Anthropology 1	Kathy Greene, MA	3	90092	\$429
ANTH	1040	650	Principles of Anthropology 2	Kathy Greene, MA	3	90094	\$429
ANTH	2010	650	Introduction to Physical Anthropology 1	Kathy Greene, MA	3	90096	\$429
ANTH	2020	650	Introduction to Physical Anthropology 2	Kathy Greene, MA	3	90098	\$429
ANTH	2070	640	Bones, Bodies, and Disease	Dawn Mulhern, PhD	3	90100	\$429
ANTH	2200	650	Introduction to Archaeology	Kathy Greene, MA	3	90102	\$429
ART AND ART HISTORY							
FINE	1012	650	Drawing 1	Patricia Cheyne, MFA	3	90279	\$429
FINE	3637	650	Art for the Elementary Teacher	Patricia Cheyne, MFA	3	90282	\$429
ASTROPHYSICAL AND PLANETARY SCIENCES							
ASTR	1110	640	General Astronomy: The Solar System	Kelly Cline, MA	3	90104	\$429
COMMUNICATION							
COMM	2400	640	Communication and Society	Robert Agne, MA	3	90106	\$429
COMM	2400	641	Communication and Society	Julien Mirivel, MA	3	90108	\$429
COMM	2400	650	Communication and Society	Robert Agne, MA	3	90109	\$429
COMM	4600	640	Senior Seminar: Organizational Communication	Brenda J. Allen, PhD	3	90111	\$429
COMPUTER SCIENCE							
CSCI	2830	640	Special Topics in Computer Science	James P. Gately, MT	1	90114	\$143
CSCI	2830	650	Special Topics in Computer Science	James P. Gately, MT	1	90117	\$143

it's up to you...

*** SECTION LEGEND**

- 64x = online, self-paced course
- 65x = print-based correspondence course
- 58x = online, term-based course



Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
ECONOMICS							
ECON	2010	640	Principles of Microeconomics	Laura Argys, PhD	4	90125	\$572
ECON	2010	650	Principles of Microeconomics	Laura Argys, PhD	4	90127	\$572
ECON	2020	640	Principles of Macroeconomics	Jay Kaplan, PhD	4	90130	\$572
ECON	2020	650	Principles of Macroeconomics	Laura Argys, PhD	4	90132	\$572
ECON	3403	640	International Economics and Policy	Jay Kaplan, PhD	3	90135	\$429
ECON	4111	640	Money and Banking Systems	Jay Kaplan, PhD	3	90138	\$429
EDUCATION							
EDUC	4161	640	Children's Literature	Phyllis Kennemer, EdD	3	90144	\$429
EDUC	4161	650	Children's Literature	Phyllis Kennemer, EdD	3	90208	\$429
EDUC	4322	650	Teaching Literature in Middle and Secondary Schools	Caroline McKinney, MA	3	90211	\$429
ENGLISH							
ENGL	1191	650	Introduction to Creative Writing	Michael Arvey, MA	3	90214	\$429
ENGL	1260	650	Introduction to Women's Literature	D'Ann Sanko, MA	3	90217	\$429
ENGL	1600	650	Masterpieces of American Literature	D'Ann Sanko, MA	3	90221	\$429
ENGL	2000	587	Literary Analysis	James McVey, PhD	3	90224	\$555
ENGL	2010	587	Introduction to Literary Theory	Todd Pinney, PhD	3	90226	\$555
ENGL	2021	650	Introductory Poetry Workshop	Michael Arvey, MA	3	90229	\$429
ENGL	3000	650	Shakespeare for Nonmajors	Rhonda Sanford, PhD	3	90232	\$429
ENGL	3051	640	Intermediate Fiction Workshop	Todd Pinney, PhD	3	90239	\$429
ENGL	3051	650	Intermediate Fiction Workshop	Todd Pinney, PhD	3	90236	\$429
ENGL	3060	640	Modern and Contemporary Literature	Todd Pinney, PhD	3	90243	\$429
ENGL	3060	650	Modern and Contemporary Literature	Todd Pinney, PhD	3	90246	\$429
ENGL	3081	650	Intermediate Nonfiction Workshop	Todd Pinney, PhD	3	90251	\$429
ENGL	3553	650	Chaucer: <i>The Canterbury Tales</i>	Zelda Rouillard, PhD	3	90254	\$429
ENGL	3563	650	Shakespeare 1	Rhonda Sanford, PhD	3	90258	\$429
ENGL	3573	650	Shakespeare 2	Rhonda Sanford, PhD	3	90261	\$429
ENGL	3655	640	American Literature to 1860	Todd Pinney, PhD	3	90264	\$429
ENGL	3655	650	American Literature to 1860	Todd Pinney, PhD	3	90267	\$429
ENGL	3665	640	American Literature after 1860	Todd Pinney, PhD	3	90270	\$429
ENGL	3665	650	American Literature after 1860	Todd Pinney, PhD	3	90273	\$429
ENGL	4100	650	The English Language	Zelda Rouillard, PhD	3	90276	\$429
FINE ARTS							
See Art and Art History							
GEOGRAPHY							
GEOG	1001	650	Environmental Systems 1—Climate and Vegetation	Staff	4	90285	\$572
GEOG	1011	650	Environmental Systems 2—Landscapes and Water	Staff	4	90288	\$572
GEOG	1992	640	Human Geographies	Leigh Miller, MA	3	90293	\$429
GEOLOGICAL SCIENCES							
GEOL	1010	640	Introduction to Geology 1	Staff	3	90287	\$429
GEOL	1010	650	Introduction to Geology 1	Staff	3	90291	\$429
GEOL	1020	650	Introduction to Geology 2	Hilde Schwartz, PhD	3	90280	\$429

* SECTION LEGEND

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58x = online, term-based course

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
HISTORY							
HIST	1010	640	Western Civilization 1: From Antiquity to the 16th Century	Jeanne Christensen, MA	3	90269	\$429
HIST	1010	650	Western Civilization 1: From Antiquity to the 16th Century	Jeanne Christensen, MA	3	90275	\$429
HIST	1015	650	History of the United States to 1865	James Fell, PhD	3	90263	\$429
HIST	1020	640	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, MA	3	90253	\$429
HIST	1020	650	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, MA	3	90257	\$429
HIST	1025	650	History of the United States since 1865	James Fell, PhD	3	90249	\$429
HIST	2117	640	History of Colorado	James Fell, PhD	3	90240	\$429
HIST	2117	650	History of Colorado	James Fell, PhD	3	90245	\$429
HIST	4217	650	The American West in the 19th Century	Anthony McGinnis, PhD	3	90235	\$429
HIST	4227	650	The American West in the 20th Century	Anthony McGinnis, PhD	3	90230	\$429
HIST	4733	640	The Russian Revolution and the Soviet Regime	John Hatch, PhD	3	90227	\$429
INTEGRATIVE PHYSIOLOGY							
KAPH	3420	640	Nutrition, Health, and Performance	Mary Beth Lynch, PhD	3	90207	\$429
KAPH	3420	650	Nutrition, Health, and Performance	Frank Konishi, PhD	3	90212	\$429
JOURNALISM							
JOUR	1001	641	Contemporary Mass Media	Sam Smith, PhD	3	90223	\$429
JOUR	3771	640	Mass Communication History	Cinda Gillilan, PhD	3	90218	\$429
KINESIOLOGY AND APPLIED PHYSIOLOGY							
See Integrative Physiology							
MATHEMATICS							
MATH	1011	650	Fundamentals and Techniques of College Algebra	Brian Clark, MA	3	90205	\$429
MATH	1021	650	Numerical and Analytical College Trigonometry	Kristen Marshall, PhD	2	90203	\$286
MATH	1071	650	Finite Mathematics for Social Science and Business	Kristen Marshall, PhD	3	90201	\$429
MATH	1081	650	Calculus for Social Science and Business	Kristen Marshall, PhD	3	90199	\$429
MATH	1300	650	Analytic Geometry and Calculus 1	Brian Clark, MA	5	90197	\$715
MATH	2300	650	Analytic Geometry and Calculus 2	Kristen Marshall, PhD	5	90195	\$715
MUSIC							
EMUS	1081	650	Basic Music Theory	Debbie Corisis, MA	3	90193	\$429
PHILOSOPHY							
PHIL	1000	650	Introduction to Philosophy	Barbara Morrison, PhD	3	90191	\$429
PHIL	1100	650	Ethics	Barbara Morrison, PhD	3	90189	\$429
PHIL	1600	650	Philosophy and Religion	Barbara Morrison, PhD	3	90185	\$429
PHIL	4040	650	Studies in 20th Century Philosophy	Barbara Morrison, PhD	3	90183	\$429
POLITICAL SCIENCE							
PSCI	1101	650	The American Political System	Jeffrey Ian Ross, PhD	3	90181	\$429
PSCI	2223	650	Introduction to International Relations	Jeffrey Ian Ross, PhD	3	90179	\$429
PSCI	3163	640	American Foreign Policy	James C. Ross, PhD	3	90187	\$429

* SECTION LEGEND

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Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
PSYCHOLOGY							
PSYC	1001	650	General Psychology	Tim Bockes, PhD	3	90177	\$429
PSYC	2012	640	Biological Psychology 1	Howard Bashinski, PhD	3	90173	\$429
PSYC	2012	650	Biological Psychology 1	Howard Bashinski, PhD	3	90175	\$429
PSYC	2022	650	Biological Psychology 2	Howard Bashinski, PhD	3	90171	\$429
PSYC	2303	640	Psychology of Adjustment	ShawnaLee Washam, PhD	3	90167	\$429
PSYC	2303	650	Psychology of Adjustment	ShawnaLee Washam, PhD	3	90169	\$429
PSYC	2606	640	Social Psychology	Brett King, PhD	3	90163	\$429
PSYC	2606	650	Social Psychology	Brett King, PhD	3	90165	\$429
PSYC	3101	640	Statistics and Research Methods in Psychology	Howard Bashinski, PhD	4	90159	\$572
PSYC	3101	650	Statistics and Research Methods in Psychology	Howard Bashinski, PhD	4	90161	\$572
PSYC	4303	640	Abnormal Psychology	Brett King, PhD	3	90155	\$429
PSYC	4303	650	Abnormal Psychology	Brett King, PhD	3	90157	\$429
PSYC	4456	640	Psychology of Personality	Tim Bockes, PhD	3	90151	\$429
PSYC	4456	650	Psychology of Personality	Tim Bockes, PhD	3	90153	\$429
PSYC	4511	650	History of Psychology	Wayne Viney, PhD	3	90149	\$429
PSYC	4684	640	Developmental Psychology	Johnna Shapiro, PhD	3	90143	\$429
PSYC	4684	650	Developmental Psychology	Johnna Shapiro, PhD	3	90147	\$429
SOCIOLOGY							
SOCY	1001	640	Introduction to Sociology	Steve Wilson, PhD	3	90136	\$429
SOCY	1001	650	Introduction to Sociology	Steve Wilson, PhD	3	90141	\$429
SOCY	1016	650	Sex, Gender, and Society 1	Kristine DeWelde, PhD	3	90129	\$429
SOCY	4014	640	Criminology	Steve Wilson, PhD	3	90121	\$429
SOCY	4014	650	Criminology	Steve Wilson, PhD	3	90123	\$429
SOCY	4025	640	Conflict Management in Social Systems	Guy Burgess, PhD	3	90119	\$429
SOCY	4086	641	Family and Society	Jan Burhmann, PhD	3	90113	\$429
SPEECH, LANGUAGE, AND HEARING SCIENCES							
SLHS	4035	587	Linguistic Analysis of ASL	Jeff Davis, PhD	3	90301	\$678
SLHS	5035	587	Linguistic Analysis of ASL	Jeff Davis, PhD	3	90302	\$678
SLHS	5055	587	Assessing First and Second Language Skills in ASL	Suzette Garay, PhD	3	90303	\$678
WRITING AND RHETORIC							
WRTG	1150	587	First Year Writing and Rhetoric	Anne Heintzman, MA	3	90306	\$555
WRTG	3020	581	Topics in Writing: Artificial Intelligence and Sci-Fi	Bruce Leland, PhD	3	90309	\$555
WRTG	3020	582	Topics in Writing: World Environment Issues	Anne Heintzman, MA	3	90307	\$555
WRTG	3020	583	Topics in Writing: Ethical Questions in Fiction	Tim Lyons, PhD	3	90313	\$555
WRTG	3020	587	Topics in Writing: Biomedical Ethics	Donald Wilkerson, MA	3	90310	\$555
WRTG	3020	588	Topics in Writing: American Culture	Rosalyn Zigmond, MA	3	90311	\$555
WRTG	3020	589	Topics in Writing: American Culture	Rosalyn Zigmond, MA	3	90312	\$555
WRTG	3040	581	Writing on Business and Society	Anne Heintzman, MA	3	90308	\$555
WRTG	3040	587	Writing on Business and Society	Anne Bliss, PhD	3	90300	\$555
WRTG	3040	588	Writing on Business and Society	Amy Goodloe, MA	3	90304	\$555
WRTG	3040	589	Writing on Business and Society	Amy Goodloe, MA	3	90305	\$555

* SECTION LEGEND

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APPLIED MUSIC

During fall and spring semesters the College of Music and Independent Learning offer private instruction for voice and most popular instruments. Group classes are offered for beginning guitar and piano. Private lessons are by arrangement. Students must furnish instruments, except piano.

9 hours of instruction. 2 semester hours credit. Tuition: \$310.

Interested students should contact the Applied Music advisor at 303-492-5737.

These courses are offered on a term basis in order to provide rich interaction with your instructor and the other students in the course. They 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.

ENGLISH

Literary Analysis

ENGL 2000

3 SEMESTER HOURS

Provides a basic skills course designed to equip students to handle the English major. Emphasizes critical writing and the acquisition of basic techniques and vocabulary of literary criticism through close attention to poetic and prose language. Required for students who declared the major summer 1999 and thereafter. Restricted to English majors only. Students may not receive credit for both ENGL 1010 and 2000.

James McVey, PhD

Section 587: Call No. 90224

Term dates: Sept. 2-Dec. 11

Tuition: \$555

Introduction to Literary Theory

ENGL 2010

3 SEMESTER HOURS

Introduces students to a wide range of critical theories that English majors need to know. Covers major movements in modern literary/critical theory, from Matthew Arnold through new criticism to contemporary postmodern frameworks. Required for all English majors. Restricted to English majors only.

Todd Pinney, PhD

Section 587: Call No. 90226

Term dates: Sept. 2-Dec. 11

Tuition: \$555

SPEECH, LANGUAGE, AND HEARING SCIENCES

The Linguistic Structure of American Sign Language

SLHS 4035/5035

3 SEMESTER HOURS

Reviews the theoretical and practical aspects of ASL grammatical structure, the sociolinguistics of ASL, and the development of ASL as a normal first language. Focuses on ASL literature and expository text as sources for complex grammatical structures. Prereq., LING 2000; SLHS 2325 recommended.

SLHS 4035

Jeff Davis, PhD

Section 587: Call No. 90301

Term dates: Sept. 2-Dec. 11

Tuition: \$678

SLHS 5035

Jeff Davis, PhD

Section 587: Call No. 90302

Term dates: Sept. 2-Dec. 11

Tuition: \$678

Assessing First and Second Language Skills in American Sign Language

SLHS 5055

3 SEMESTER HOURS

Introduction to the concepts of assessment and evaluation of language skills. Focuses on assessment of second language skills of ASL in students and interpreters. Topics include types, purpose, reliability, and validity of assessment; issues of test construction, administration, and grading. Prereq., SLHS 5035 or equivalent. Recommended prereq., SLHS 5045.

Suzette Garay, PhD

Section 587: Call No. 90303

Term dates: Sept. 2-Dec. 11

Tuition: \$678

WRITING AND RHETORIC

First-Year Writing and Rhetoric

WRTG 1150

3 SEMESTER HOURS

Rhetorically informed introduction to college writing. Focuses on critical reading skills, analytic and argumentative writing, connections between academic writing and civic debate, and critical information literacy. Taught as a rigorous writing workshop, the course places a premium on critical thinking and thoughtful revision. For placement criteria, see the arts and sciences advising office. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication. Business students excluded. This section limited to juniors and seniors.

Anne Heintzman, MA

Section 587: Call No. 90306

Term dates: Sept. 2-Dec. 11

Tuition: \$555

Topics in Writing

WRTG 3020

3 SEMESTER HOURS

Each instructor assigns two or more readings on a given topic. Students choose an essay, abstract its argument, analyze it, and agree or disagree with the author. They thus learn the principal modes of academic rhetoric: description, analysis, and argument. Restricted to arts and sciences juniors and seniors. Same as NRLN 3020. Approved for arts and sciences core curriculum: written communication.

Artificial Intelligence and Sci-Fi

Bruce Leland, PhD

Section 581: Call No. 90309

Term dates: Sept. 2-Dec. 11

Tuition: \$555

World Environment Issues

Anne Heintzman, MA

Section 582: Call No. 90307

Term dates: Sept. 2-Dec. 11

Tuition: \$555

Ethical Questions in Fiction

Tim Lyons, PhD

Section 583: Call No. 90313

Term dates: Sept. 2-Dec. 11

Tuition: \$555

Writing on Business and Society

WRTG 3040

3 SEMESTER HOURS

Through selected readings and daily writing assignments, students examine ethical and social issues that arise in business. Focusing on critical thinking, analytical and argumentative writing, and oral presentation, the course emphasizes effective communication with nontechnical audiences. Classes are conducted as workshops. Restricted to junior and senior business or economics majors. Approved for arts and sciences core curriculum: written communication.

Anne Heintzman, MA

Section 581: Call No. 90308

Term dates: Sept. 2-Dec. 11

Tuition: \$555

Anne Bliss, PhD

Section 587: Call No. 90300

Term dates: Sept. 2-Dec. 11

Tuition: \$555

Biomedical Ethics

Donald Wilkerson, MA

Section 587: Call No. 90310

Term dates: Sept. 2-Dec. 11

Tuition: \$555

American Culture

Rosalyn Zigmund, MA

Section 588: Call No. 90311

Section 589: Call No. 90312

Term dates: Sept. 2-Dec. 11

Tuition: \$555

Amy Goodloe, MA

Section 588: Call No. 90304

Section 589: Call No. 90305

Term dates: Sept. 2-Dec. 11

Tuition: \$555

Additional Credit Programs

ACCESS PROGRAM AVAILABLE CREDIT COURSES FOR ELIGIBLE SPECIAL STUDENTS

Do you want to take a credit course at CU-Boulder during the day? Are you interested in a particular class for personal or professional development? Do you plan to enroll in a degree program in the future? The ACCESS program enables nondegree students to enroll in Boulder main campus undergraduate or graduate courses after most degree-seeking students have had an opportunity to register.



We are currently accepting applications for Fall semester. Registration begins Friday, August 22 and classes begin Monday, August 25. Call 303-492-5148 for more information or visit the ACCESS web site at www.colorado.edu/conted/access.htm.

HIGH SCHOOL CONCURRENT PROGRAM

If you are a high school student interested in the challenge of university coursework, you can enroll in credit courses at the University of Colorado at Boulder. In addition, you may be able to use the credit you earn toward high school graduation requirements and for college credit. Participation in the High School Concurrent Program requires written permission from your high school counselor and parent/guardian.

During the Fall and Spring semesters, high school juniors and seniors may request tuition reimbursement from their school district for the successful completion of up to two university courses each term through the ACCESS program. You must notify your counselor of your intent to enroll at least two months prior to the beginning of the term. Call 303-492-6226 for an application and more information or visit the web site at www.colorado.edu/conted/hsconcur.htm.



DEGREE COMPLETION PROGRAM

Students who have earned a two-year associate's degree or who have not completed their traditional bachelor's program have an opportunity to complete their degrees through a special new program at the University of Colorado at Boulder. In cooperation with the CU-Boulder College of Arts and Sciences, the Division of Continuing Education is now offering a unique degree completion program that will allow students to earn a bachelor's degree with a distributed studies major.

Areas of emphasis available are English, history, psychology, and sociology through the Boulder Evening Program and English and psychology through the Independent Learning Program. Interested students should call 303-492-8252 to make an appointment with an advisor or visit the web site at www.colorado.edu/conted/degree.htm.

SUMMER SESSION

Are you thinking ahead to Summer 2004? Consider Summer Session at CU-Boulder.

Classes are smaller, more relaxed and more personal. Different terms allow you to take classes and have time to work, travel, relax, or participate in an internship.

We welcome high school students, undergraduate students, graduate students, and others to join us in Boulder. Different terms help you plan the classes you need around your schedule. Consider taking one class in the 3-week Maymester. There are also 5-week, 8-week, 10-week, and intensive terms.



For more information on Summer Session or to request a catalog, call 303-492-5148 or visit the web site at www.colorado.edu/summersession. Summer 2004 information will be available on the Web in December.

HIGH SCHOOL INDEPENDENT LEARNING

The High School Independent Learning program provides special opportunities for students to meet college entrance requirements, to accelerate graduation, or to meet high school graduation requirements. In cooperation with and approval from your high school, this program allows students to take self-paced correspondence courses for high school credit. It's up to you when and where to learn.



We offer courses in the following areas: business, English, consumer and family science, mathematics, science, social studies, and study skills. Additional information, course listings and course descriptions are available on the Web at www.colorado.edu/cewww.

Learn...grow...become...

Center for Advanced Engineering and Technology Education

We are pleased to announce the opening of THE CENTER FOR ADVANCED ENGINEERING AND TECHNOLOGY EDUCATION (CAETE), a new partnership between CU-Boulder's College of Engineering and Applied Science, and the Division of Continuing Education. The new center will build upon the strengths of the partnership to deliver high quality graduate education to students on and off the Boulder campus.

The formation of the center ensures continuation of the current master's degree programs in interdisciplinary telecommunications and engineering management offered by the College of Engineering and Applied Science, improves accessibility for part-time and nondegree students, and sets the stage for the development of new certificate programs and short courses of interest to professional engineers. In addition, the center houses the popular distance education program currently called CATECS.

EXCELLENCE AND FLEXIBILITY

Both on-campus students and working professionals can take advantage of the following:

- Courses taught by tenured and tenure-track faculty at the College of Engineering and Applied Science as well as faculty of other schools and colleges on campus
- Courses taught by adjunct faculty who are experienced professionals
- Courses on the most current topics of interest to employers
- Convenience and flexibility in course delivery
- Prestigious master's degrees from the College of Engineering and Applied Science at the University of Colorado at Boulder

DEGREES AND CERTIFICATES

CAETE serves on-campus students, distance learning students, and working professionals via several modalities (face-to-face, live TV broadcast, videotape, and Internet). Courses can be taken for professional development or toward a master's degree. In addition, over 100 courses are available for rent or purchase on videotape.

- Master's degrees in aerospace engineering, computer science, electrical and computer engineering, engineering management, and telecommunications
- Elective courses in civil, environmental, and mechanical engineering
- Certification in fields related to engineering, applied science, and information technology such as project management or power electronics
- Short courses in fields related to engineering, applied science, and information technology

FALL REGISTRATION INFORMATION

On-campus Programs

Engineering Management: July 28-August 15, 303-492-2570, www.colorado.edu/EngMgmtProg

Interdisciplinary Telecommunications: July 28-August 15, 303-492-8916, itp.colorado.edu

Distance Learning

CATECS: July 14-August 8, 303-492-6331, www.colorado.edu/CATECS



Each program within CAETE has something unique to offer.

"The Engineering Management Program offers a great way of preparing working students for the problems and difficulties they may be faced with as an engineer willing to accept management responsibility. What makes this program even more helpful is the fact that the whole faculty brings in their very valuable experiences from the several companies they have worked with. Especially, as a foreign student, I appreciated the continuous help and support I received from CATECS, the Program Administrator, and the faculty in order to successfully complete the program." Georg Czerny is enrolled in the master's program.



I DON'T BELIEVE
IN ALIENS

THAT'S ALL

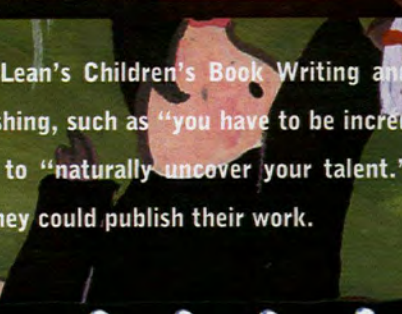
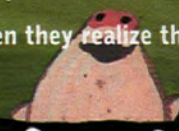
Kerry Lee MacLean

I ❤️ Continuing Education!

*I love to empower my students
by dispelling the myths
surrounding publishing.*

Always wanted to write a children's book? Successful author Kerry MacLean's Children's Book Writing and Publishing class is a great place to start. Kerry debunks myths about publishing, such as "you have to be incredibly gifted to do this." She gives you a step-by-step blueprint to follow to "naturally uncover your talent." What's more, she loves to "see students' faces light up when they realize they could publish their work."

What's more, she loves to "see students' faces light up when they realize they could publish their work."



PERSONAL ENRICHMENT courses enable you to enjoy courses tailored to your personal interests in a convenient, noncredit format. The program includes a broad range of popular offerings including foreign language study, creative writing, and fine arts classes. These classes are just for you – just for fun!

- Bonjour! Hola! Learn a new language.
- Write that Great American Novel.
- Tap into your creative side with painting and drawing.
- Learn how to take the perfect photo.

Tuition and classroom information are listed at the end of each course description. Early registration is advised as class sizes are limited. Full refunds are given on request prior to the second class meeting. Please keep in mind that non-attendance or non-payment does not constitute withdrawal. If you would like to withdraw from a course, contact the Division of Continuing Education. Only preregistered students may attend class.

Foreign Language Classes

Students enrolled in Continuing Education Foreign Language classes may use the University of Colorado Anderson Language Technology Center (ALTEC). Located in Hellem's Hall, the lab provides state-of-the-art audio, video, and print materials for language students. A receipt for your Continuing Education language class is all that you need to use the facility.

Fine Arts Classes

Fine Arts students should call our registration office at 303-492-5148 for a supply list or visit our web site at www.colorado.edu/conted/ncfa.htm.

Proof of Completion

On occasion, students enrolled in personal enrichment courses require proof that they completed their course. Attendance of at least half of the class sessions is required for completion of the course. Upon request, students who have completed their course will be provided with a letter of completion and/or a noncredit transcript.

Scholarships

Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. August 11 is the fall application deadline. Scholarship awards range up to \$460. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/scholar.htm.

Faculty and Staff Discounts

University of Colorado faculty and staff on at least a permanent, half-time appointment and retired faculty and staff may enroll in classes at a 25% tuition discount. Please provide proof of status with the University of Colorado when you register. Call 303-492-5148 for more information.

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Poetry Workshop
Short Story Workshop
Children's Books
Publishing
Magazine Writing



FINE ARTS

Introduction to Drawing

NCFA 020

Learn to translate your observations through drawing! You will explore line, value, texture, perspective, and more. Working with different materials, such as paper, pencil, graphite, ink, charcoal, and house paint, you will experience the different approaches to contemporary drawing. No experience is necessary to start drawing now! Supplies will cost approximately \$50. Call 303-492-5148 for a supply list. Please bring materials for the first night.

Kimberlee Sullivan, MFA in Painting and Drawing from CU-Boulder, is an Associate of the Rocky Mountain Women's Institute. Her work is on display at the Carson Masuoka Gallery in Denver.

Section 300: Tuesdays, September 16-November 4, 7-9 p.m., Fine Arts C153.
8 sessions. \$186.

Figure Drawing

NCFA 005

Explore the fundamentals of drawing the human figure. The activities are divided into eight learning units. In the beginning, you will explore various tools and mark making within the realm of black and white. You will add to your experimentation by including tools of color and applications such as color schemes, mood, effects on shading, and perspective. We will discuss all aspects of creating a successful composition throughout the course. Complete, discounted supply kits are available at Art Hardware (1135 Broadway) for approximately \$85-\$100. Call 303-492-5148 for a supply list. Please bring materials to the first class meeting.

Susanna Cavalletti, MFA from CU-Boulder, has taught drawing and painting as well as art history for CU-Denver and for the Continuing Education Boulder Evening Credit Program.

Section 300: Wednesdays, September 17-November 5, 7-9 p.m., Fine Arts N298.
8 sessions. \$186.

Water Media

NCFA 009

You will be introduced to various watercolor applications, such as wet into wet, dry brush, glazing, mingling, etc. Discussions focus on understanding color and developing the composition and techniques that include a salt lift, masking fluid, plastic wrap, and different ways to create whites. You will explore watercolor as a medium to record visual information in your journal as well as in finished work. The class examines a variety of resources such as the still life, human figure, and photograph. Complete, discounted supply kits are available at Art Hardware (1135 Broadway) for approximately \$95-\$120. Call 303-492-5148 for a supply list. Please bring materials to the first class meeting.

Susanna Cavalletti, MFA from CU-Boulder, has taught drawing and painting as well as art history for CU-Denver and for the Continuing Education Boulder Evening Credit Program.

Section 300: Mondays, September 15-November 3, 6:30-8:30 p.m., Fine Arts C153.
8 sessions. \$186.

Introduction to Oil Painting

NCFA 028

Gain an understanding of fundamental color theory and basic oil painting materials and methods, such as using mediums to ensure that paintings don't crack over time. Studio time will include work with observing and representing light, choosing and mixing color, developing interesting compositions, and creating the illusion of space. Development will be encouraged through individualized instruction and group discussions. Call 303-492-5148 for a supply list. The estimated cost for the materials is \$130-\$200. Complete, discounted kits are available at Art Hardware (1135 Broadway) for approximately \$140. Please bring all materials to the first class meeting. No previous painting experience is necessary!

Christina Craigo, MFA from the School of Visual Arts in New York, is a painter who has exhibited her work nationally and in India.

Section 300: Tuesdays, September 16-November 4, 6:30-8:30 p.m., Fine Arts C103.
8 sessions. \$186.

Basic Sculpture

NCFA 054

Designed for students of all levels, this class covers the fundamental principles and design elements of sculpture. Students will use a variety of tools and materials for basic modeling, building, and sculptural fabrication techniques. Depending on students' interests, demonstrations may include the use and application of clay, stone, plaster, metal, and wood. Supplies will cost approximately \$35-\$40. Call 303-492-5148 for a supply list. Please bring the modeling tool, the clay, and the raw canvas to the first class meeting.

Barbara Cox, MA/BFA, is a local sculptor in stone and wood with a master's degree in Jungian psychology, a BFA in three dimensional sculpture, and a teaching certificate in art education. She has taught art classes and has inspired students since 1975.

Section 300: Tuesdays, September 30-November 18, 6-8:30 p.m., Fine Arts C102.
8 sessions. \$230.

Sculpture: Stonecarving

NCFA 011

You will learn to conceptualize sculptural images and ideas, and express them in stone. To bring out the elements of a basic sculptural form, we will examine techniques, such as, reducing the stone block, pitching and punching, rubbing and polishing. We will also view a slide show of stone sculptures throughout the centuries. In the first class, we will discuss tools and materials, and where to purchase them. Supplies will cost approximately \$35-\$40. The use of power tools will be discussed at the last class.

Barbara Cox, MA/BFA, is a local sculptor in stone and wood with a master's degree in Jungian psychology, a BFA in three dimensional sculpture, and a teaching certificate in art education. She has taught art classes and has inspired students since 1975.

Section 300: Wednesdays, October 1-November 19, 6-8:30 p.m., Fine Arts C102.
8 sessions. \$230.

Introduction to Book Arts

NCFA 080

Have you ever wanted to learn how to make a book? In this course, you will be introduced to the world of book arts from simple cut and fold structures created with a single sheet of paper to traditional books with hard covers. We will cover materials (paper, board, adhesive), techniques (cutting, folding, tearing, and pasting), and a variety of book structures (cut and fold books, explosion books, tunnel books, a traditional case bound book, the Coptic stitch, and a ribbon bound photo album). No previous binding experience is necessary. Some materials will be provided. A basic materials list will be distributed at the first class meeting.

Mia Semington, MFA in photography from CU-Boulder, has taught photography at the college level since 1996. She is teaching photography at CU-Boulder and has exhibited her work nationally and internationally.

Section 300: Wednesdays, September 17-November 5, 6:30-9 p.m., Fine Arts C153.
8 sessions. \$240.

Fearless Basic Photography

NCFA 001

Come prepared to have fun while learning how to operate your 35mm SLR camera. We will cover f-stops, shutter speeds, film, exposure, lenses, filters, flash, simple lighting techniques, composition, alternative shooting techniques, and ways of "seeing." For weekly assignments, you will be shooting color slide film and will be encouraged to share your images to receive feedback from the class. A minimum of six rolls of color slide film is required to complete all assignments (approximate cost is \$85 for film and processing). Bring your 35mm SLR camera and enthusiasm for learning a new skill. No experience necessary!

Mia Semington, MFA in photography from CU-Boulder, has taught photography at the college level since 1996. She is teaching photography at CU-Boulder and has exhibited her work nationally and internationally.

Section 300: Mondays, September 15-November 3, 6:30-8:30 p.m., Muenzinger D439.
8 sessions. \$186.

Creative Photography Workshop

NCFA 002

Learn about amazing new films and special effects, telephoto and wide angle lens use, filters, electronic flash, macro shots, action, professional tricks, and composition. Receive an introduction to digital photography with Adobe Photoshop, and detailed darkroom instruction covering black and white printmaking and color enlargements from negatives. The course includes four 2-hour classroom periods, two 3-hour darkroom classes, and three weeks unlimited use of the black and white and color darkrooms. Access to the computer imaging equipment is based on student proficiency. The cost of the darkroom chemicals is included, but you must provide your own film and paper after the first class. Bring your own camera to the first class.

Don Oberbeck is a professional photographer who has taught for over 20 years. He also runs the Boulder Photo Center.

Section 300: Thursdays, October 9-December 4, 7:30-9:30 p.m., Economics 2.
9 sessions. \$223.

FOREIGN LANGUAGES

Chinese: Beginning Conversational and Written Skills

NCFL 108

Learn Mandarin Chinese while emphasizing practical and colloquial Chinese for business and travel. You will practice proper pronunciation and useful conversational phrases for a number of situations. To reinforce language learning skills, you will be introduced to Chinese characters. Chinese culture will also be explored.

Chung-Hui Kuo Cheng, MA Chinese, is a native speaker.

Section 300: Thursdays, September 18-November 6, 6:30-8:30 p.m., Hellems 141.
8 sessions. \$186.

Chinese: Conversational and Written Skills for Advanced Beginners

NCFL 208

Do you already have strong reading skills of either pinyin or zhuyin fuhao? In this class, which is a continuation of Mandarin instruction, you will continue to develop your speaking and reading skills that are geared toward everyday life situations.

Chung-Hui Kuo Cheng, MA Chinese, is a native speaker.

Section 300: Wednesdays, September 17-November 5, 6:30-8:30 p.m., Chemistry 131.
8 sessions. \$186.

French: Beginning Conversational Skills

NCFL 100

Immerse yourself in a new romantic language! You will learn the present tense of "er" verbs and a few common irregular verbs, recent past and near future tense, while emphasizing practical conversational skills for travelers. We will also cover cultural aspects of French life. The textbook, *Parlons Francais I*, is available at the CU Bookstore. There will be in-class handouts complimenting the textbook.

Nadia Turk, PhD, has taught French and Arabic at CU-Boulder since 1982.

Section 300: Tuesdays, September 16-November 18, 6:30-8:30 p.m., Hellems 181.
10 sessions. \$230.

(Foreign Languages continued)

Like many Continuing Education students, Merrill DeVito took a course to experience something new. In this case, it was Robert Garrison McBrearty's short story writing class. Although she is a published magazine writer, she found it challenging to write short stories. However, the course was rewarding, and "the teacher used great exercises to stimulate our creative thought processes."

French: Conversational Skills for Advanced Beginners NCFL 200

Are you able to use the present tense and want to learn more? This class is for you! We will learn more irregular verbs in the present tense, cover pronominal verbs, and the past tense of both regular and irregular verbs. We will stress increased vocabulary and speaking skills. The textbook, *Parlons Français II*, is available at the CU bookstore. There will be in class handouts complimenting the textbook.

Nadia Turk, PhD, has taught French and Arabic at CU-Boulder since 1982.

Section 300: Thursdays, September 18–November 20, 6:30–8:30 p.m., Hellems 191. 10 sessions. \$230.

German: Beginning Conversational Skills NCFL 101

Do you intend to travel to a German-speaking country but have little or no experience with the language? This course will prepare you to use German practically and effectively. By covering essential grammar, emphasizing speaking skills, building a large working vocabulary, and discussing cultural and geographical elements, you will not only gain a knowledge of the language, but also a more complete sense of life in Germany today.

Kathryn Tisdale, BA/MA in German from CU-Boulder, speaks Spanish as well as German. A Colorado resident of almost twenty years, she spent five months living in Switzerland working as an Au Pair.

Section 300: Wednesdays, September 17–November 5, 6–8 p.m., Hellems 211. 8 sessions. \$186.

German: Conversational Skills for Advanced Beginners NCFL 201

This class will continue to develop conversational skills, grammar, and vocabulary. Students are expected to have had either an introductory German course or some knowledge of German vocabulary and grammar. Conversational topics will include (but will not be limited to) vocabulary related to housing, traveling, food, and the workplace. The starting point for grammar will be the dative case (students are expected to know the nominative and accusative cases already, as well as basic German grammar). Class periods will have a balance of vocabulary, conversation, hearing comprehension, and grammar. We will try to use German as much as possible in the classroom (grammar will be explained in English).

Tonja van Helden, MA in German from CU-Boulder, has lived in Germany for five years and taught German at CU for two years. As an artist and dancer, she is interested in combining language learning with movement.

Section 300: Wednesdays, September 17–November 5, 6:30–8:30 p.m., Hellems 141. 8 sessions. \$186.

Italian: Beginning Conversational Skills NCFL 102

Learn speaking skills for a variety of situations! We will begin with the essentials of pronunciation, develop vocabulary, and learn crucial phrases and idioms needed for everyday communication. We will also cover present tense of verbs, differentiating formal from familiar address and gender, examine cultural topics, and view videos.

Tina Pugliese, MA in Foreign Languages and Cinema Study from the University of Rome, is a native of Italy. She has taught Italian classes to non-Italian students in private schools in Rome and teaches all levels of Italian at CU-Boulder.

Section 301: Mondays, September 15–November 3, 6–8 p.m., Hellems 185. 8 sessions. \$186.

Shelley Sullivan, MA in Italian Literature, has lived in Italy and taught in Colorado and Virginia.

Section 302: Wednesdays, September 17–November 5, 6–8 p.m., Hellems 181. 8 sessions. \$186.

Italian: Conversational Skills for Advanced Beginners NCFL 202

When in Rome, do and speak as the Romans do. Review basic grammar concepts introduced in Beginning Italian and expand on vocabulary and expressions essential for conversational fluency in Italian. We will also continue to integrate aspects of modern Italian life and culture.

Molly Petras, BA in Italian from CU-Boulder, spent one year of high school in Italy and has traveled extensively throughout the country.

Section 300: Mondays, September 15–November 3, 6:30–8:30 p.m., Hellems 211. 8 sessions. \$186.

Japanese: Beginning Conversational and Written Skills

NCFL 104

Interested in all things Japanese? This class will provide you with the skills you need to get started! You will learn to read and write Katakana, one of the two Japanese alphabets, and will be introduced to Kanji (Chinese characters). By the end of this course, you will be able to greet people, introduce yourself, order at a restaurant, ask for phone numbers, and ask what time it is and respond appropriately. We will stress the importance of pronunciation and the polite and day-to-day language customs.

Naoko Asada, BS, is a native of Japan and teaches Japanese language courses for the CU-Boulder Department of East Asian Languages and Civilizations.

Section 300: Tuesdays, September 16–November 4, 6:30–8:30 p.m., Humanities 145. 8 sessions. \$186.

Japanese: Conversational and Written Skills for Advanced Beginners

NCFL 204

You will learn the basic sentence structure of Japanese, one of the two Japanese alphabets, Hiragana, and more Kanji. By the end of this course, you will be able to talk about past, current, and future daily activities and events; likes and dislikes; and the weather. You will also be able to make appropriate conversation in order to shop and dine. This course is designed for those with an introductory knowledge of Japanese. No class on October 2.

Naoko Asada, BS, is a native of Japan and teaches Japanese language courses for the CU-Boulder Department of East Asian Languages and Civilizations.

Section 300: Thursdays, September 18–November 13 (skip October 2), 6:30–8:30 p.m., Humanities 370. 8 sessions. \$186.

Portuguese: Conversational Skills for Advanced Beginners

NCFL 206

This course will build on the grammar concepts introduced in Beginning Portuguese. We will develop more accuracy of verb conjugation, including irregular verbs used in everyday conversation. Lessons will include various activities to improve spoken skills and gain fluency in colloquial Portuguese.

Bia Yordi, MA, is a native Portuguese speaker from Brazil and has taught Portuguese at CU-Boulder since 2000.

Section 300: Tuesdays, September 9–October 28, 6:30–8:30 p.m., Education 136. 8 sessions. \$186.

Spanish: Beginning Conversational Skills

NCFL 103

Beginners will find this course the perfect place to start! We will cover present tense and learn vocabulary about food, restaurant dining, family, hotel, and vacations, while emphasizing conversational skills. We will also examine culture aspects of Spanish-speaking countries, view videos, and listen to Spanish music.

Nuria Godon, PhD student in Spanish Literature at CU-Boulder, is a native of Spain and teaches introductory Spanish classes on campus.

Section 301: Mondays, September 15–November 3, 6:30–8:30 p.m., Hellems 255. 8 sessions. \$186.

Elizabeth Medina, PhD, is a native of Cuba and has taught at CU-Boulder since 1977.

Section 302: Tuesdays, September 16–November 4, 7–9 p.m., Hellems 251. 8 sessions. \$186.

Itza Zavala, MA, is a native speaker from Mexico City and is working on her PhD in Spanish at CU-Boulder. Since 1994, Itza has taught Spanish in the U.S. to students of all ages and has taught college level courses at Western Michigan University and CU.

Section 303: Wednesdays, September 17–November 5, 6:30–8:30 p.m., Hellems 185. 8 sessions. \$186.

Spanish: Conversational Skills for Advanced Beginners

NCFL 203

It's time to take your Spanish to the next level! In this course, you will learn past tense and practice present tense while developing accuracy and proficiency in the use of conversational Spanish. We will cover practical vocabulary about travel, airports, hobbies, sports, personal care, and housework, and also examine culture aspects of Spanish-speaking countries, view videos, and listen to Spanish music.

Prerequisite: Beginning Spanish or equivalent.

Itza Zavala, MA, is a native speaker from Mexico City and is working on her PhD in Spanish at CU-Boulder. Since 1994, Itza has taught Spanish in the U.S. to students of all ages and has taught college level courses at Western Michigan University and CU.

Section 301: Tuesdays, September 16–November 4, 6:30–8:30 p.m., Hellems 247. 8 sessions. \$186.

Nuria Godon, PhD student in Spanish Literature at CU-Boulder, is a native of Spain and teaches introductory Spanish classes on campus.

Section 302: Thursdays, September 18–November 6, 6:30–8:30 p.m., Hellems 181. 8 sessions. \$186.

Spanish: Intermediate Conversational Skills

NCFL 303

Don't miss the opportunity to build your vocabulary, develop conversational skills, and learn cultural and social aspects of Spanish-speaking countries. We will review and cover new grammar depending on your interests and suggestions. Prerequisite: Beginning Spanish or equivalent. Required text: *Pasajes: Lengua*, by Bretz, available at the CU Bookstore.

Elizabeth Medina, PhD, is a native of Cuba and has taught at CU-Boulder since 1977.

Section 300: Thursdays, September 18–November 6, 7–9 p.m., Hellems 251. 8 sessions. \$186.

THEATRE**Acting Basics**

NCTH 017

Bring to life moments of true emotions once felt, imagined, or written; engage your mind, body, spirit, and emotions! In a supportive and safe environment you will gain tools for expressions and refine your own natural talents. We will experiment with a variety of scene exercises involving two or more performers. You will also prepare a two-minute monologue that you could use for auditions after the class is completed. Relaxation exercises and voice and breathing warm-ups will be stressed. All levels of experience are welcome.

Anna Andes is a graduate student in Theatre at CU-Boulder and teaches beginning acting classes for the department.

Section 300: Mondays, September 15-
November 3, 6:30-8:30 p.m., Economics 205.
8 sessions. \$176.

WRITING**Creative Writing**

NC W 006

Creative Writing is a great method for exploring and expanding your creative voice. Through in class language games and imaginative exercises, we will explore dialog, characterization, narrative, and style, in addition to discussing relevant books. If you have stories to tell, or think that the time has come to express your creativity, this class will show you ways to go forward.

Naomi Rachel, MA English Literature and MFA Creative Writing, is a professional writer with over 300 publications in regional and national publications.

Section 300: Wednesdays, September 24-
November 12, 7-9 p.m., Hellems 263.
8 sessions. \$176.

Creative Writing Workshop

NC W 106

Explore ways to develop your individual voice and improve your work! If you have already taken Creative Writing classes, or have been writing on your own, you will be able to workshop in a supportive atmosphere. The topics covered and the imaginative assignments will relate to the work that you are doing. We will also have assigned readings relating to the issues brought up in the workshop. No class October 2 and November 27.

Naomi Rachel, MA English Literature and MFA Creative Writing, is a professional writer with over 300 publications in regional and national publications.

Section 300: Thursdays, September 18-
December 4 (skip October 2 and November 27),
7-9 p.m., Hellems 263. 10 sessions. \$176.

Poetry Workshop

NC W 042

This course will give you the opportunity to write in an informal, relaxed environment with other writers. We will focus on the reading and writing of poetry through writing exercises and discussions of various topics, such as what it means to be a writer and what makes a poem work. In addition, we will be reading from the work of a few contemporary poets each week. You will also have the chance to share your work and receive feedback within periodic workshops. Whether you have been writing poetry for years or have never written a poem, this course will allow you to explore your creativity, develop your knowledge of contemporary poetry, and participate in a workshop with other writers.

Maria Hugger, MA Creative Writing from CU-Boulder, has published in a number of magazines including Strategic Confusion and Palimpsest. Currently she is an assistant editor for Square One.

Section 300: Wednesdays, September 17-
November 5, 6:30-8:30 p.m., Hellems 271.
8 sessions. \$176.

Short Story Workshop

NC W 008

Designed for both beginning and experienced writers, this course covers all aspects of writing the fictional short story, including characterization, plot, setting, theme, and developing one's own style and voice. For the first 3 weeks you will explore various topics through lecture, discussion, and in-class writing exercises. The rest of the course will follow a workshop format where you bring your story-in-progress to class to receive helpful editorial suggestions. The course also includes discussion of the marketplace and how to prepare and submit manuscripts for publication.

Robert McBrearty, MFA from the Iowa Writers' Workshops, has recently published a collection of short stories, A Night at the Y.

Section 300: Tuesdays, September 16-
October 28, 6:45-8:45 p.m., Hellems 263.
7 sessions. \$154.

**The Writer's Process:
From Inspiration to Publication**

NC W 121

If you've always wanted to write and write well, this interactive course is for you. With down-to-earth advice, you'll learn everything from getting started and discovering your own personal voice, to revising your work, surviving rejection, and feeling good about the entire writing process. Specific information will be given about successful writing techniques, authors' insights, query letters, non-fiction proposals, marketing your work, and scriptwriting. Enjoy this opportunity to express yourself while learning more about the art and craft of writing.

Ellen Mahoney, BS in Journalism and MEd, has been writing for more than 20 years with Disney, MCA/Universal, Columbia Pictures, and LucasArts. She's had several books published including novelty books for children and non-fiction for teens.

Section 300: Tuesdays, September 16-
October 21, 6:30-8:30 p.m., Economics 2.
6 sessions. \$132.

How to Sell What You Write to a Publisher

NC W 090

You have a great idea for a book, or maybe you're already writing a book but you're not sure how to market it. How do you convince a reputable publisher to publish your book? Should you hire an agent and how do you find a good agent? Through this informative and entertaining workshop, you will learn what editors are looking for before starting your project. You will learn how to write a cover letter, create a winning book proposal, and sell your idea before completing the project. You will also have the opportunity to have your ideas and proposals critiqued in class.

Ying Chang Compestine has sold eight books to three major publishers, both with and without an agent. She is a regular contributor to many national magazines and frequently lectures on writing at literary conferences and aboard cruise ships. Her books have been featured on TV and radio shows, and in magazines and newspapers around the country.

Section 300: Saturday, August 23,
9 a.m.-4 p.m., Continuing Education Center.
1 session. \$100.

The Children's Book: Write It, Illustrate It, Publish It!

NC W 012

Ever dreamed of writing or illustrating a children's book? Learn the entire process, from the cultivation of ideas to the published work. We'll cover manuscript development, illustration techniques, picture layouts, self-publishing, and submitting manuscripts to publishing companies. We'll take an in depth look at how straightforward and profitable it is to self-publish your own work. Feel free to bring your own art or writing for instructor support and advice. Don't be shy! This will be a fun and safe place to share your work.

Kerry Lee MacLean, BA, has written, illustrated, and successfully self-published 6 books, including two award-winners, Pigs Over Denver and Pigs Over Boulder.

Section 300: Saturday, November 8,
9 a.m.-4 p.m., Continuing Education Center.
1 session. \$100.

Secrets of Negotiating a Profitable Publishing Contract

NC W 091

Join this informative workshop and learn about the important, but often-neglected, business side of writing. Discover how to negotiate the best possible contract for books and magazines. You will learn the terminology of contracts, why some rights are worth fighting for, how to resell your writing for multiple profits, and the techniques of negotiating a win-win contract for both parties. Topics will include book advances, subsidiary rights, special sale, electronic rights, option on future work, and royalties - gross vs. net royalty payments. For magazine contracts, we will cover how to pitch ideas, get assignments, build a long term working relationship with editors, and what rights you should keep control of so you can receive recurring income for many years to come. You will be given sample magazine, book, and web contracts in class. Everyone will have a chance to practice their negotiation skills in the class.

Ying Chang Compestine has sold eight books to three major publishers, both with and without an agent. She is a regular contributor to many national magazines and frequently lectures on writing at literary conferences and aboard cruise ships. Her books have been featured on TV and radio shows, and in magazines and newspapers around the country.

Section 300: Saturday, November 1,
9 a.m.-4 p.m., Continuing Education Center.
1 session. \$100.

How to Write Magazine Articles...and Get Them Published

NC W 005

Got an idea for a magazine article you've been itching to develop? Always loved to write but just haven't known what to do with that talent or desire? Think you could write livelier, more readable articles than what you see in magazines? From sure-to-sell query letters to sure-to-happen publication, learn all the steps to successful magazine article writing and sales. The instructor also works individually with students' articles.

Nancy Rasmussen has taught magazine article writing for 13 years and has published over 60 articles in national and local publications. She currently writes and proofreads for the CU-Boulder alumni magazine, The Coloradan.

Section 300: Mondays, September 29-
November 3, 6:30-8:30 p.m., Economics 13.
6 sessions. \$132.



Sometimes Continuing Education

courses extend beyond the classroom.

Annette Osterlund took Robert Garrison McBrearty's short story writing course and got so much out of it, she and some other students formed a writing group that continues to meet even though the class is over. "There were wonderful people in the class; it's great to get input on your writing from people you respect."

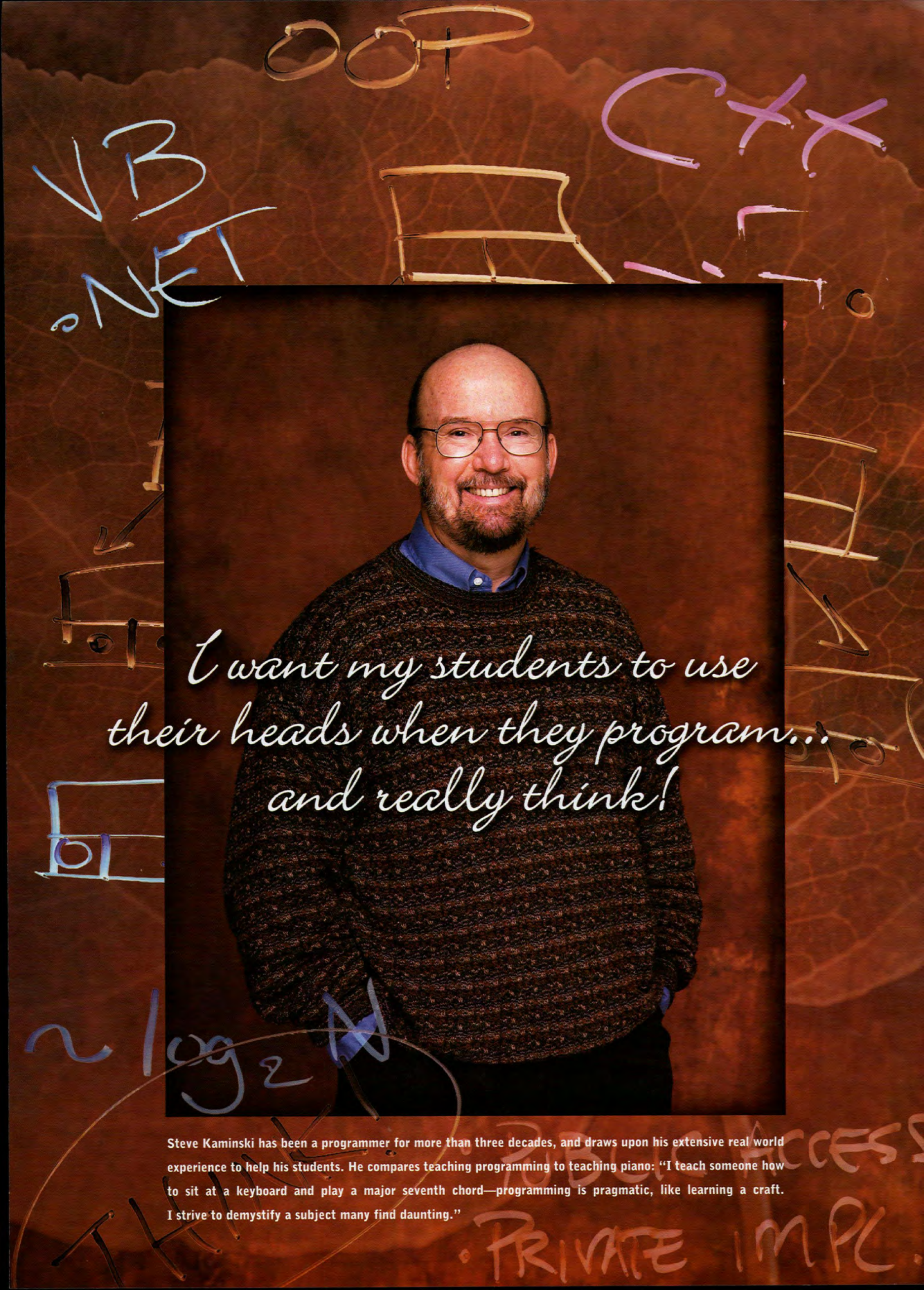
How to Crack the Online Magazine Market

NC W 092

Most writers have yet to discover the publishing opportunities waiting to be seized on the Internet. This one-day session will introduce you to the markets eager for new talent and help you target the right online publications. Learn the difference between writing for print and writing for the Web, find out which markets are most receptive to unpublished newcomers, explore the various types of Internet writing, and leave with specific tips for bursting through the online door.

Dan Stern is a professional freelance writer who has written for several of the nation's top publications, both online and print, including the Discovery Channel Online, Salon.com, and U.S. News & World Report. Dan earned his bachelor's degree in journalism and philosophy from George Washington University.

Section 300: Saturday, September 20,
9 a.m.-4 p.m., Continuing Education Center.
1 session. \$100.



*I want my students to use
their heads when they program...
and really think!*

Steve Kaminski has been a programmer for more than three decades, and draws upon his extensive real world experience to help his students. He compares teaching programming to teaching piano: "I teach someone how to sit at a keyboard and play a major seventh chord—programming is pragmatic, like learning a craft. I strive to demystify a subject many find daunting."

COMPUTERS *have become an integral part of our everyday lives: for work, research, communication, planning and record keeping, creative endeavors, or just for keeping in touch with family and friends. So, learn how to do what you need to do better, faster and more easily.*

Our program can help you:

- Enhance and improve your basic computer skills.
- Position yourself for a career change.
- Build advanced technical skills.

Certificate Programs

Certificate programs in Web Graphics, Network Administration, Programming, and Web Site Design are also available. These certificates are designed for beginners, as well as those with intermediate skills in these areas of study. The courses required for each certificate offer a mix of in-depth theoretical knowledge and real-world experience. Upon completion of any one of these certificates, students should have a good understanding of the basic skills and concepts needed for an entry-level position. See page 50 for certificate information.

Workshops

We offer short and convenient workshops designed to enhance the users' skills in a specific area of interest in which they have already had prior training, experience, or background. These informal workshops give the student more time to interact with the instructor and other students in class. See page 49 for workshop information.

GENERAL COURSE INFORMATION

All computer applications courses are noncredit and do not apply toward any degree programs. Our courses are taught by top-notch professionals who are experts in their fields.

Prerequisites

Prerequisites are listed at the end of each course description. To ensure that you get the most out of class, **prerequisite(s) should be completed before you attend the course.** Equivalent experience and/or course(s) from another institution may be accepted in place of the prerequisite(s). If you are unsure you have the necessary background to satisfy the prerequisite requirement, please call 303-492-6596.

Grading Policy

There are two levels of grading depending on the student's purpose for taking the course. The first level is mandatory for anyone seeking to complete one of the certificate programs. Students in this level are assigned a satisfactory (S) or unsatisfactory (U) mark at the end of the course based on their attendance, quizzes, and/or completion of homework assignments. This level is also recommended for those wanting to get the most out of their course. The second level of grading is for students not wanting to be assessed at all. These students will receive a no credit (NC) mark.

If you are working toward a certificate in Web Graphics, Network Administration, Programming, or Web Site Design, you must receive a satisfactory mark in all courses that apply toward the certificate. If you receive an unsatisfactory or no credit mark and wish to obtain a certificate, you must take the course over again and obtain a satisfactory mark.

Textbooks

Certain courses require or recommend textbooks. This will be indicated at the end of the course descriptions. All textbooks are available at the University Book Store in the University Memorial Center (UMC), room number 10, or visit their web site at cubooks.colorado.edu.

OTHER INFORMATION

Enrollment Limits

Enrollment is limited by the number of computers or seats available in each classroom. Only registered students are allowed into class.

Classroom Locations

Classroom locations are indicated in the course descriptions. The majority of courses offered through the Computer Applications Program are held at the following locations:

- University Computing Center (UCC) on 3645 Marine Street (at the corner of Arapahoe Avenue and Marine Street)
- University Management Systems (UMS) building on 4780 Pearl East Circle (east of Foothills Parkway on Pearl Street)
- Division of Continuing Education (CEDU) on 1505 University Avenue
- Humanities (HUMN) building on the main CU campus.

Refer to the map on page 57 for other course locations.

Drop Deadlines and Refund Policy

Once you enroll, it is your responsibility to attend the course or drop from it in a timely manner. To receive a refund, you must drop the course **three business days** before it begins. **No refunds will be issued after this time.**

Course Cancellations

Courses may be cancelled due to low enrollment. To reduce the risk of a course being cancelled, we encourage students to register at least two weeks prior to the first class meeting. Courses may also be cancelled due to severe weather conditions. In this situation, call 303-735-5000 for cancellation announcements.




Faculty, Staff and Student Discounts

University of Colorado faculty and staff on at least a permanent, half-time appointment and retired faculty and staff may enroll in classes at a 25% tuition discount. Please provide proof of status with the University of Colorado when you register. Students of CU-Boulder, enrolled at least half-time in credit courses, are eligible for a 25% tuition discount. Call 303-492-5148 for more information.

Scholarships

Students who are 25 years of age or older may be eligible for the Nontraditional Student Scholarship for Continuing Education courses. August 11 is the application deadline for fall. Scholarship awards range up to \$365. Applications are available at Continuing Education or on the Web at www.colorado.edu/conted/scholar.htm.

Notes

The  symbol next to a course title signifies it is a lecture based only course. All other courses are hands-on. Please note that most hands-on courses will take place in a PC lab, unless otherwise specified.

The course descriptions in this catalog are brief. For a detailed overview of each course, go to www.colorado.edu/conted/computer.htm. Select a course and click on *Course Overview* at the end of the course description.

If you have any questions, please call the Division of Continuing Education at 303-492-5148, or outside the Denver Metro area, 800-331-2801.

Visit our web site at www.colorado.edu/conted/computer.htm.

Course Guide

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Applications...Course descriptions begin on page 38					
Windows 2000	CAAP 2131-300	08/26/03	08/28/03	9 a.m.-2:30 p.m.	2
Excel 2000 Level I	CAAP 2321-300	09/03/03	09/03/03	9 a.m.-4 p.m.	1
Excel 2000 Level II	CAAP 3321-300	09/30/03	09/30/03	9 a.m.-4 p.m.	1
Excel 2002 Level I	CAAP 2331-300	09/23/03	09/23/03	9 a.m.-4 p.m.	1
Access 2000 Level I	CAAP 2421-301	09/09/03	09/11/03	9 a.m.-4 p.m.	2
Access 2000 Level I	CAAP 2421-302	10/14/03	10/16/03	9 a.m.-4 p.m.	2
Access 2000 Level II	CAAP 3421-300	10/28/03	10/30/03	9 a.m.-12 p.m.	2
Access 2002 Level I	CAAP 2431-300	11/04/03	11/06/03	9 a.m.-4 p.m.	2
Database Design Concepts	CAAP 4501-300	10/21/03	10/23/03	9 a.m.-4 p.m.	2
Relational Database Concepts and SQL Programming	CAAP 4502-300	09/16/03	10/21/03	6 p.m.-9 p.m.	6
Graphics...Course descriptions begin on page 39					
Computer Art	CAGR 1021-300	08/26/03	08/28/03	6 p.m.-9 p.m.	2
Introduction to Graphic Design	CAGR 1121-300	09/06/03	09/06/03	9 a.m.-5 p.m.	1
Introduction to Photoshop 7	CAGR 2111-300	09/04/03	09/11/03	9 a.m.-4 p.m.	2
Introduction to Photoshop 7	CAGR 2121-300	09/29/03	10/09/03	6 p.m.-9 p.m.	4
Photoshop 7 for the Web	CAGR 3121-300	10/14/03	10/23/03	6 p.m.-9 p.m.	4
Illustrator 10 Level I	CAGR 2221-300	09/13/03	09/20/03	9 a.m.-4 p.m.	2
Illustrator 10 Level II	CAGR 3211-300	09/29/03	10/01/03	9 a.m.-4 p.m.	2
Multimedia Solutions	CAGR 3421-300	11/03/03	11/13/03	6 p.m.-9 p.m.	4
Web Graphics Project	CAGR 9001-300	11/03/03	12/08/03	6 p.m.-9 p.m.	5
Networking...Course descriptions begin on page 40					
Introduction to Networks	CANW 1001-300	08/26/03	09/04/03	6 p.m.-9 p.m.	4
Computer Systems Overview and Architecture	CANW 3103-300	09/03/03	09/24/03	6 p.m.-9 p.m.	4
Operating Systems	CANW 4102-300	09/30/03	11/04/03	6 p.m.-9 p.m.	6
Network Administration	CANW 5101-300	10/06/03	10/27/03	6 p.m.-9 p.m.	4
Local and Wide Area Networking Topics	CANW 5402-300	11/11/03	12/02/03	6 p.m.-9 p.m.	5
Introduction to Windows 2000 Administration	CANW 2211-300	09/11/03	10/02/03	6 p.m.-9 p.m.	4
Intermediate Windows 2000 Administration	CANW 3211-300	10/09/03	11/06/03	6 p.m.-9 p.m.	5
Introduction to UNIX	CANW 2301-300	08/26/03	09/16/03	6 p.m.-9 p.m.	7
Intermediate UNIX	CANW 3301-300	09/30/03	10/28/03	6 p.m.-9 p.m.	5
Security Essentials and Network Design	CANW 4401-300	11/18/03	12/11/03	6 p.m.-9 p.m.	6
UNIX System Administration	CANW 5301-300	11/05/03	12/10/03	6 p.m.-9 p.m.	5

Programming...Course descriptions begin on page 42

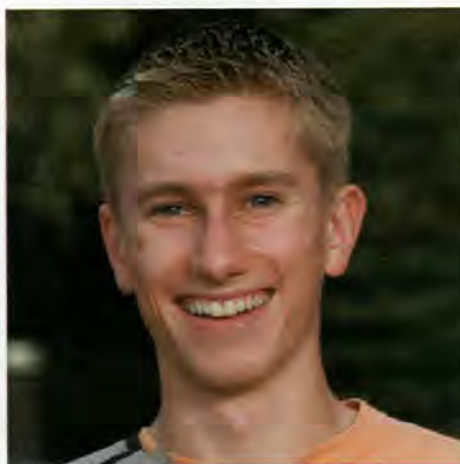
Introduction to Programming I	CAPR 1001-300	09/06/03	09/22/03	9 a.m.-4 p.m.	6
Introduction to Programming II	CAPR 2101-300	10/11/03	10/29/03	9 a.m.-4 p.m.	6
Introduction to Application Programming	CAPR 2201-300	08/27/03	10/15/03	6 p.m.-9 p.m.	8
Intermediate Application Programming	CAPR 3201-300	10/30/03	12/11/03	6 p.m.-9 p.m.	6
Algorithm Design	CAPR 3202-300	10/02/03	11/20/03	6 p.m.-9 p.m.	8
Introduction to Object-Oriented Programming in C++	CAPR 2102-300	08/26/03	09/30/03	6 p.m.-9 p.m.	6
Intermediate/Advanced C++ Programming	CAPR 4101-300	10/09/03	12/04/03	6 p.m.-9 p.m.	8
Introduction to Object-Oriented Programming Using Java	CAPR 2601-300	09/02/03	10/14/03	6 p.m.-9 p.m.	7
Java for Object-Oriented Experienced Programmers	CAPR 3601-300	10/21/03	12/09/03	6 p.m.-9 p.m.	7
Advanced Java Programming Language Topics	CAPR 4604-300	09/03/03	10/15/03	6 p.m.-9 p.m.	7
GUI Programming in Java	CAPR 5601-300	10/20/03	12/08/03	6 p.m.-9 p.m.	7
Developing Web Applications in Java	CAPR 5602-300	10/21/03	12/09/03	6 p.m.-9 p.m.	7
Java Best Practices and Performance Tuning	CAPR 5606-300	08/26/03	09/16/03	6 p.m.-9 p.m.	4
Object-Oriented Design Patterns	CAPR 5401-300	11/01/03	11/01/03	9 a.m.-4 p.m.	1
Object-Oriented Analysis and Design	CAPR 5402-300	10/24/03	10/25/03	9 a.m.-5 p.m.	2
Introduction to Hands-On Visual Basic Programming	CAPR 2301-300	09/03/03	10/01/03	6 p.m.-9 p.m.	5
Intermediate Hands-On Visual Basic Programming	CAPR 3301-300	10/11/03	10/25/03	9 a.m.-4 p.m.	3
Visual Basic .NET Programming Concepts	CAPR 4301-300	11/01/03	11/15/03	9 a.m.-4 p.m.	3
Introduction to PERL for Programmers	CAPR 2701-300	10/01/03	10/29/03	6 p.m.-9 p.m.	5
Extensible Markup Language (XML)	CAPR 3701-300	09/23/03	10/14/03	6 p.m.-9 p.m.	4
Technical Tour of .NET and C#	CAPR 3703-300	10/18/03	10/18/03	9 a.m.-4 p.m.	1

Web...Course descriptions begin on page 46

Internet Fundamentals	CAWB 1001-300	08/25/03	08/28/03	6 p.m.-9 p.m.	2
Design Techniques for Web Sites	CAWB 3101-300	11/04/03	11/18/03	6 p.m.-9 p.m.	3
Web Server Administration	CAWB 3102-300	11/13/03	12/11/03	9 a.m.-12 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-301	09/03/03	10/01/03	9 a.m.-12 p.m.	5
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-302	10/06/03	10/20/03	6 p.m.-9 p.m.	5
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-301	10/07/03	10/21/03	6 p.m.-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-302	10/23/03	11/06/03	9 a.m.-12 p.m.	3
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-301	10/08/03	10/29/03	6 p.m.-9 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-302	11/12/03	12/10/03	6 p.m.-9 p.m.	4
Introduction to JavaScript	CAWB 2701-301	09/03/03	09/24/03	6 p.m.-9 p.m.	4
Introduction to JavaScript	CAWB 2701-302	10/30/03	11/20/03	6 p.m.-9 p.m.	4
Intermediate/Advanced JavaScript	CAWB 3703-300	10/27/03	12/08/03	6 p.m.-9 p.m.	6
Introduction to Motion Graphics Using Flash MX	CAWB 2511-300	09/08/03	09/29/03	6 p.m.-9 p.m.	4
Intermediate Motion Graphics Using Flash MX	CAWB 3512-300	10/02/03	10/30/03	6 p.m.-9 p.m.	5
Advanced Motion Graphics Using Flash MX	CAWB 4511-300	11/05/03	12/03/03	6 p.m.-9 p.m.	4
Dreamweaver MX	CAWB 2611-301	08/27/03	09/17/03	6 p.m.-9 p.m.	4
Dreamweaver MX	CAWB 2611-302	10/29/03	11/19/03	9 a.m.-12 p.m.	4
ColdFusion MX	CAWB 2811-300	09/22/03	10/08/03	6 p.m.-9 p.m.	6
Introduction to Hypertext Preprocessor (PHP)	CAWB 2911-300	11/06/03	12/04/03	6 p.m.-9 p.m.	4
Web Site Design Project	CAWB 9001-300	11/05/03	12/10/03	6 p.m.-9 p.m.	5

Workshops...Course descriptions begin on page 49

Build Your Own Access Database	CAAP 0000-311	09/15/03	09/18/03	9 a.m.-2:30 p.m.	2
Build Your Own Access Database	CAAP 0000-312	10/13/03	10/15/03	9 a.m.-2:30 p.m.	2
Tips and Tricks for Microsoft Office	CAAP 0000-313	11/11/03	11/13/03	9 a.m.-12 p.m.	2
Photoshop Immersion	CAGR 0000-311	09/19/03	09/27/03	9 a.m.-4 p.m.	4
Photoshop Elements Immersion	CAGR 0000-312	10/03/03	10/11/03	9 a.m.-4 p.m.	4
Extreme Programming	CAPR 0000-311	10/04/03	10/04/03	9 a.m.-4 p.m.	1



Chris Caldwell took Steve Kaminski's programming class to continue his computer applications education. The Continuing Education program offers a diverse mix of courses, from the extremely practical, such as computer applications classes, to those geared toward life enrichment rather than career advancement.

APPLICATIONS

Windows 2000 CAAP 2131

Learn how to set up your computer so the files and programs you use are at your fingertips. Topics to be covered include the file structure (where your files are), the basics required for working with any program, the various screen elements, and how to customize your screens. Also, learn to protect your work by creating backups. **Prerequisite: Fundamental knowledge of basic computer functions.**

Jeff Schatz, BA

Section 300: Tuesday and Thursday, August 26 and 28, 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$289.

Excel 2000 Level I CAAP 2321

Gain a clear understanding of how to use Excel to create simple, powerful spreadsheets. Learn how to create a workbook - from the initial idea to a finished, well-formatted document. Emphasis is placed on formula creation and concepts, entry shortcuts, editing and formatting, printing options, print preview, and page setups. **Prerequisite: Proficiency with PCs and the Windows Operating System.**

Jeff Schatz, BA

Section 300: Wednesday, September 3, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$226.

Excel 2000 Level II CAAP 3321

In this course, students learn more about Excel's security, automation and modification features, including automation through templates. Students learn invaluable techniques such as linking formulas, locking out edits, copying and pasting; and linking Excel data to other Windows programs using OLE as well as the database capabilities. **Prerequisite: CAAP 2321 Excel 2000 Level I** or equivalent.

Issy Kilbride

Section 300: Tuesday, September 30, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$226.

Excel 2002 Level I CAAP 2331

Gain a clear understanding of how to use Excel to create simple, powerful spreadsheets. Learn how to create a workbook - from the initial idea to a finished, well-formatted document. Emphasis is placed on formula creation and concepts, entry shortcuts, editing and formatting, printing options, print preview, and page setups. **Prerequisite: Proficiency with PCs and the Windows Operating System.**

Chris Mattson, BS

Section 300: Tuesday, September 23, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$226.

Access 2000 Level I CAAP 2421

Microsoft Access is a relational database used to manage information on many different levels for many purposes. This course will examine the Table object followed by the Query object. Students will learn how to create forms for efficient data display. Also covered is the use of Reports for grouping and printing of data, along with importing/exporting data and relational theory. Shortcuts, tips, and tricks are offered throughout the course. **Prerequisite: Proficiency with PCs and the Windows Operating System.**

Chris Mattson, BS

Section 301: Tuesday and Thursday, September 9 and 11.

Issy Kilbride

Section 302: Tuesday and Thursday, October 14 and 16.

All Sections: 9 a.m.-4 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$368.

Access 2000 Level II CAAP 3421

This one-day course is loaded with useful techniques and information designed to advance the Access user into the intermediate realm. The student will work with more advanced query and form design, with emphasis on the use of related data across multiple related data sources. Focus is placed on the use of the property sheet instead of the Access wizards to customize objects. **Prerequisite: CAAP 2421 Access 2000 Level I, CAAP 2431 Access 2002 Level I** or equivalent.

Issy Kilbride

Section 300: Tuesday and Thursday, October 28 and 30, 9 a.m.-12 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$226.

Access 2002 Level I CAAP 2431

Microsoft Access is a relational database used to manage information on many different levels for many purposes. This course will examine the Table object followed by the Query object. Students will learn how to create forms for efficient data display. Also covered is the use of Reports for grouping and printing of data, along with importing/exporting data and relational theory. Shortcuts, tips, and tricks are offered throughout the course. **Prerequisite: Proficiency with PCs and the Windows Operating System.**

Chris Mattson, BS

Section 300: Tuesday and Thursday, November 4 and 6, 9 a.m.-4 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$368.

Database Design Concepts CAAP 4501

This course will cover the limits and complications of the common flat file list model. Students will learn "Normalizing" the flat file through "Normal Forms". Database integrity, table indexing, different types of table joins and when to use them will also be covered. This course paves the way for more advanced subject matter such as SQL programming. **Prerequisites: CAAP 2421 Access 2000 Level I, CAAP 2431 Access 2002 Level I** or equivalent and a good working knowledge of the Windows operating system. A basic understanding of Excel is recommended.

Chris Mattson, BS

Section 300: Tuesday and Thursday, October 21 and 23, 9 a.m.-4 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$368.

Relational Database Concepts and SQL Programming CAAP 4502

This course is an introduction to relational databases and the Structured Query Language (SQL). These topics will be explored using a simulated college registration database. Considerable attention will be placed on the construction, testing, debugging, and simplification of SQL programs. Selected topics in the design and development of relational databases, as background for a better understanding of why SQL functions the way that it does, will be examined. This course emphasizes database use rather than database administration and utilizes Oracle SQL and SQL *Plus. **Prerequisite: CAAP 2421 Access 2000 Level I, CAAP 2431 Access 2002 Level I,** or previous experience with databases.

Andy Marangakis, MS

Section 300: Tuesdays, September 16-October 21, 6-9 p.m. 6 sessions. University Management Systems 101. \$446.

GRAPHICS

Computer Art CAGR 1021

Spray cans, paint brushes and buckets of paint appear and disappear. And no mess to clean up when you're done! Discover electronic graphic design with object-oriented and bit-mapped design capabilities. With training in laser printing plus instruction in aesthetics of electronic imaging, you'll be ready to make your own camera-ready images. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms. **Prerequisite: Fundamental knowledge of basic computer functions.**

Barry Ratliff, MFA

Section 300: Tuesday and Thursday, August 26 and 28, 6-9 p.m. 2 sessions. Humanities 1B35. \$206.

Introduction to Graphic Design CAGR 1121

This course offers students an extensive introduction to computer graphics fundamentals needed for print and web page design. Students come away with a clear understanding of such things as vector and raster images, various computer resolutions, color information, file formats, and much more. The student will learn to apply basic design principles of combining type, graphics, and photographs to their print and web page layouts. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms. **Prerequisite: Fundamental knowledge of basic computer functions.**

Rick Hoyt, MA

Section 300: Saturday, September 6, 9 a.m.-5 p.m. 1 session. Humanities 1B35. \$235.

Introduction to Photoshop 7 CAGR 2111

Photoshop is a powerful image editing program that has become the industry standard for professional users in the graphics and web development markets. In this introductory course, you will learn the basics using the tools in the program to edit scanned images, as well as create your own striking graphic images. Topics include menu commands; using the tools in the tool palette; saving images in different formats and for different uses; and understanding image file formats. **Prerequisite: CAGR 1011/1021 Computer Art or equivalent.**

Jerry Reynolds, MSEE

Section 300: Thursdays, September 4 and 11, 9 a.m.-4 p.m. 2 sessions. University Management Systems 101. \$353.

(Graphics continued)

Introduction to Photoshop 7 CAGR 2121

Photoshop is a powerful image editing program that has become the industry standard for professional users in the graphics and web development markets. In this course, you will learn the basics using the tools in the program to edit scanned images, as well as create your own striking graphic images. Topics include menu commands; using the tools in the tool palette; saving images in different formats and for different uses; and understanding image file formats. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms.

Prerequisite: CAGR 1011/1021 Computer Art or equivalent.

Tim Meehan

Section 300: Mondays and Thursdays, September 29–October 9, 6–9 p.m. 4 sessions. Humanities 1B35. \$353.

Photoshop 7 for the Web CAGR 3121

This course introduces the student to more advanced techniques that focus on editing and creating graphics for use on the Web. Topics include applying and creating layer styles and layer effects; creating vector-based shapes and graphics; creating text objects and text effects; applying masks; advanced image manipulation; channel operations; and using Photoshop actions. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms.

Prerequisite: CAGR 2111/2121 Introduction to Photoshop or equivalent. **Required text:** *Photoshop 7 ImageReady 3 Hands-On Training*, Weinman and Kabili.

Tim Meehan

Section 300: Tuesdays and Thursdays, October 14–23, 6–9 p.m. 4 sessions. Humanities 1B35. \$353.

Illustrator 10 Level I CAGR 2221

Adobe Illustrator supports many file formats for exporting files for web publishing or to page layout programs for print production. Illustrator graphics are the primary components of animation on web pages. Learn to create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Learn to also integrate Adobe Photoshop images into your illustrations created in Illustrator. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms.

Prerequisite: CAGR 1011/1021 Computer Art or equivalent. **Required text:** *Foundation Illustrator 10*, Loader and Huggins.

Rick Hoyt, MA

Section 300: Saturdays, September 13 and 20, 9 a.m.–4 p.m. 2 sessions. Humanities 1B35. \$368.

Illustrator 10 Level II CAGR 3211

Explore advanced techniques Adobe Illustrator has to offer. Create artwork for animation on the Web. The student will investigate sharing illustrations between applications and combining continuous-tone paintings and photographs with line art. Students will gain a greater understanding of prepress issues and choosing the optimal file format for saving documents. Class includes hands-on practice exercises. **Prerequisite:** CAGR 2211/2221 Illustrator Level I or equivalent.

Jerry Reynolds, MSEE

Section 300: Monday and Wednesday, September 29 and October 1, 9 a.m.–4 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$368.

Multimedia Solutions CAGR 3421

This class introduces the types of equipment and technical considerations used in multimedia productions for CD-ROM and web delivery. The class will explore and be motivated by viewing world-class productions. There will be hands-on practice with graphic animation authoring software. **Prerequisite:** CAGR 1021/1011 Computer Art or equivalent. **Required text:** *Multimedia: Making It Work*, Tay Vaughan.

William Busch

Section 300: Mondays and Thursdays, November 3–13, 6–9 p.m. 4 sessions. Humanities 1B35. \$353.

Web Graphics Project CAGR 9001

Required capstone course for the Certificate in Web Graphics. This course integrates skills learned in prerequisite courses and emphasizes layout, design, and discovery of one's own style. Students will create a digital portfolio demonstrating their work, software skills, and artistic approach to projects. Students will assess their potential audience, present goals, and develop a plan by creating flowcharts and storyboards. Final portfolios will be posted on the Web. Peer and self evaluations will be conducted during all phases of the project. Work will be done both in and outside of class. **Prerequisite:** Students must have satisfactorily completed all of the required courses for the Web Graphics Design Certificate.

Brandon Berman, MA

Section 300: Mondays, November 3–December 8 (skip November 24), 6–9 p.m. 5 sessions. University Computing Center 127. \$394.

NETWORKING

Introduction to Networks CANW 1001

Networked computer systems are becoming more and more prevalent in today's business environment. Making informed choices depends on understanding the basic concepts, grasping the "lingo", and accurately evaluating various configurations. This course presents an overview of current network systems available on both DOS-based and Macintosh-based systems for small to medium-sized businesses. **Prerequisite:** Proficiency with PCs and the Windows operating system.

Nate Ahrens, BA

Section 300: Tuesdays and Thursdays, August 26–September 4, 6–9 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$315.

Computer Systems Overview and Architecture

CANW 3103

This lecture-based course introduces the fundamentals of computer organization and architecture, providing an overview of the structure and operation of digital computers. It will describe how individual components such as CPU's memory, hard drives, video cards, network interface cards, and other peripherals interact with each other on various platforms. The class will explore several underlying technologies that are common to most computers, and especially to PCs. It will take a generic approach to describing how these systems work rather than examining the details of specific implementations.

Prerequisite: Knowledge of basic computing operations and terminology.

Dave Bodnar, MS

Section 300: Wednesdays, September 3-24, 6-9 p.m. 4 sessions. University Computing Center 123. \$315.

Operating Systems

CANW 4102

This lab-based technical course deals with the four major networking operating systems. Hands-on labs will cover installation of Windows, Mac O/S (9.1 demo), Red Hat Linux and UNIX SVR4 (Solaris 8 demo), basic network setup, and "How To" use common troubleshooting and performance utilities to maintain these systems. **Prerequisites:**

CANW 1001 Introduction to Networks and CANW 3103 Computer Systems Overview and Architecture or equivalent.

Marc Lafavor, BS

Section 300: Tuesdays, September 30-November 4, 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$473.

Network Administration

CANW 5101

In this course, you will learn about network management skills, including setting up user groups and access privileges, maintaining security, backup strategies, as well as sharing printers and other network resources. You will also learn trouble-shooting techniques and how to solve and prevent network problems.

Prerequisite: CANW 4102 Operating Systems or equivalent.

Shayn Smith, PhD

Section 300: Mondays, October 6-27, 6-9 p.m. 4 sessions. University Computing Center 127. \$315.

Local and Wide Area Networking Topics

CANW 5402

In this lecture-based course, both Local Area Network (LAN) and Wide Area Network (WAN) topics will be covered. The three dominant LAN protocols will be covered in depth as well as the function of bridges in a LAN. Learn the various packet-switched technologies and the various routing protocols that make the Internet work. Learn the newer broadband technologies as well as older circuit-switched technologies. Gain an understanding of the advantages and disadvantages of the technologies. Case studies of real-world WAN topologies and the equipment used to implement them will be examined. **Prerequisite:** CANW 4102 Operating Systems or equivalent.

Craig McBride, MBA

Section 300: Tuesdays and Thursdays, November 11-December 2 (skip November 25 and 27), 6-9 p.m. 5 sessions. University Computing Center 123. \$353.

Introduction to Windows 2000 Administration

CANW 2211

This is a technical hands-on course focusing on concepts necessary for migrating from Windows NT 4.0 to Windows 2000. You will learn installation and configuration of Windows 2000 Professional and Server in a small office environment. Topics include planning, installation, networking, file sharing, printer sharing, file systems, and disks. Also covered will be installation and configuration of several Windows 2000 services. **Prerequisite:** CANW 4102 Operating Systems or equivalent. **Required text:** *Windows 2000 The Complete Reference*, Ivens and Gardinier.

Marc Lafavor, BS

Section 300: Thursdays, September 11-October 2, 6-9 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$462.

Intermediate Windows 2000 Administration

CANW 3211

Expand on the topics covered in the introduction course by learning what it takes to adapt them to a larger scale multi-server environment using Domains and Trusts. Also examine the Internet Information Server, Remote Access Service, Terminal Server, and other network components. Students will learn the migration strategies from Windows NT 4.0 and the differences between Windows XP. The importance of security, basic firewall technologies and virus protection will also be covered. **Prerequisite:** CANW 2211 Introduction to Windows 2000 or equivalent. **Required text:** *Windows 2000 The Complete Reference*, Ivens and Gardinier.

Marc Lafavor, BS

Section 300: Thursdays, October 9-November 6, 6-9 p.m. 5 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$473.



(Networking continued)

Introduction to UNIX CANW 2301

This is a hands-on course for anyone who needs to use UNIX, program in its environment, manage users, or obtain sufficient knowledge to evaluate it. In this course, fundamentals are covered, including few advanced topics history, the importance of different versions, files, directories, permissions, essential commands, editors, the Bourne and C shells, I/O redirection, pipes, command substitution, environment variables, powerful features of the C shell, and a look inside the UNIX kernel.

Prerequisite: Fundamental knowledge of basic computer functions.

Craig McBride, MBA

Section 300: Tuesdays and Thursdays, August 26-September 16, 6-9 p.m. 7 sessions. University Computing Center 127. \$551.

Intermediate UNIX CANW 3301

Create your own tools or do system administration. In this course, advanced use of commands are covered, including creating and executing shell programs, start-up files, variables, parameters, simple and multiple case branching, loops, signal handling, testing file attributes, plus some ingenious little-known features. **Prerequisite:** CANW 2301 Introduction to UNIX or equivalent.

Craig McBride, MBA

Section 300: Tuesdays, September 30-October 28, 6-9 p.m. 5 sessions. University Computing Center 127. \$504.

Security Essentials and Network Design CANW 4401

This lab-based technical course provides the working knowledge of security concepts and their relationship to network design to successfully implement a network security strategy. Hands-on labs will cover installation and configuration of virus protection, NAT (network address translation), (software) firewalls, scanners, and intrusion monitors.

Prerequisites: CANW 3301 Intermediate UNIX and CANW 3211 Intermediate Windows 2000 Administration or equivalent.

Marc Lafavor, BS

Section 300: Tuesdays and Thursdays, November 18-December 11 (skip November 25 and 27), 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$473.

UNIX System Administration CANW 5301

This course examines many aspects of system administration on UNIX-like operating systems. Vendor-specific details are avoided, to a large extent, making the presented concepts applicable to all flavors of UNIX. Topics include managing users, disk administration and setup strategies, networking, system operation and monitoring, backup, security, and other "tricks of the trade." This course will give the student an intermediate user's level knowledge of file ownerships, directories, permissions, basic commands, and editors. **Prerequisite:** CANW 3301 Intermediate UNIX or equivalent.

Dave Taylor, MS, MBA

Section 300: Wednesdays, November 5-December 10 (skip November 26), 6-9 p.m. 5 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$504.

PROGRAMMING

Introduction to Programming I CAPR 1001

This is an excellent first course for students with minimal or no programming background who want to learn to program. Using an object-oriented approach in this lecture-based course, students will learn the logic patterns needed for structured programming in any language. Students will work with conditionals (if statements), loops, and modularized code. They will learn to write concise, top-down, elegant code using these basic structures.

Prerequisite: Proficiency with PCs and the Windows operating system. **Required text:** *Karel++: A Gentle Introduction to the Art of Object-Oriented Programming*, 3rd Edition, Joseph Bergin, Mark Stehlik, Jim Roberts, and Richard Pattis.

Charry Stover, MS

Section 300: Saturdays, September 6 and 13, 9 a.m.-4 p.m.; Mondays, September 8, 15, and 22, 6-9 p.m.; and Wednesday, September 17, 6-9 p.m. 6 sessions. Hellems 191. \$551.

Introduction to Programming II CAPR 2101

This course uses C++ to deepen the skills learned in CAPR 1001 Introduction to Programming I. Students learn the basics of the C++ language, and then use that knowledge to expand and strengthen their ability to work with conditionals, loops, nested conditionals and loops, and functions. Students will be provided with sample C++ programs and solve many programming problems on their own. **Prerequisite:** CAPR 1001 Introduction to Programming I or equivalent. **Recommended text:** *C++ How to Program*, Deitel & Deitel.

Charry Stover, MS

Section 300: Saturdays, October 11 and 25, 9 a.m.-4 p.m.; Mondays, October 13 and 27, 6-9 p.m.; and Wednesdays, October 15 and 29, 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$551.



Introduction to Application Programming CAPR 2201

This is a more intensive introduction to programming course covering the techniques used in designing common algorithms to solve practical problems. Topics include flow of control, functions with parameter passing, data structures, abstract data types, objects, classes, arrays, and file I/O. The course combines a lecture and self-paced laboratory format with hands-on programming using C++.

Prerequisites: Strong computer skills are necessary and some programming experience and/or introductory programming coursework in any language is recommended, but not required. **Recommended text:** *Problem Solving With C++*, Savitch.

Steve Kaminski, MSEE

Section 300: Wednesdays, August 27-October 15, 6-9 p.m. 8 sessions. University Management Systems 101. \$551.

Intermediate Application Programming CAPR 3201

Using more advanced programming concepts, students learn to analyze problems encountered and solutions to building larger, more real-world type programs, including criteria for selecting data structures to fit their applications. Object-oriented design is emphasized. Topics include pointers, dynamic data structures (linked lists, queues, stacks, binary trees), recursion, and A/I. Course combines a self-paced laboratory format of hands-on C++ programming with an in-lab lecture. **Prerequisite:** CAPR 2201 Introduction to Application Programming or equivalent. **Recommended text:** *Problem Solving With C++*, Savitch.

Steve Kaminski, MSEE

Section 300: Thursdays, October 30-December 11 (skip November 27), 6-9 p.m. 6 sessions. University Management Systems 101. \$499.

Algorithm Design CAPR 3202

This course focuses on the application of the C subset of C++ and Java in the design of practical solutions to real-world problems. Topics include sorting and searching, internal data representation, bit manipulation, arrays and pointers, and random number generation, all within the context of specific program examples. Although rules of C language syntax are discussed and reinforced, primary emphasis is placed on developing the student's ability to analyze a problem inductively before approaching the computer. **Prerequisite:** CAPR 3201 Intermediate Application Programming or equivalent. Students should also have access to a computer with a text editor, C/C++ compiler and linker, or Java interpreter, plus a knowledge of at least high-school level algebra. **Recommended text:** *The C Programming Language*, 2nd Edition, Brian W. Kernighan and Dennis M. Ritchie.

David Corbin, MS

Section 300: Thursdays, October 2-November 20, 6-9 p.m. 8 sessions. Humanities 180. \$551.

Introduction to Object-Oriented Programming in C++ CAPR 2102

C++ is an extension of the C language that supports object-oriented (O-O) programming. This course will focus on the essential concepts underlying O-O programming (data abstraction, encapsulation, polymorphism) and will show how these are supported in C++ (classes and objects, public and private data and function members, inheritance, virtual functions). This lecture-based course will also cover features of C++ that are not directly related to O-O programming (constants, references, initialization, function and operator overloading, default arguments, constructors, destructors, friends, and inline functions). **Prerequisite:** CAPR 2101 Introduction to Programming II or equivalent. **Recommended text:** *Thinking in C++, Volume I: Introduction to Standard C++*, 2nd Edition, Bruce Eckel.

James Elliott, MS

Section 300: Tuesdays, August 26-September 30, 6-9 p.m. 6 sessions. University Computing Center 123. \$499.



As part of the curriculum to earn her certificate in computer, Mollie Brackett took Steve Kaminski's Intermediate Application Programming. Like many students, Mollie is strengthening her programming skills and knowledge with an eye toward landing a rewarding new job.

Intermediate/Advanced C++ Programming CAPR 4101

This lecture-based course covers advanced topics in C++ programming: the nature, benefits, and perils of abstract base classes, static class members, type safety, object ownership, friend access, references, casts, namespaces, operator overloading, multiple inheritance, templates, exceptions, and the standard C++ library. **Prerequisite:** CAPR 2102 Introduction to Object-Oriented Programming in C++ or equivalent. **Recommended text:** *Thinking in C++, Volume I: Introduction to Standard C++*, 2nd Edition, Bruce Eckel.

James Elliott, MS

Section 300: Thursdays, October 9-December 4 (skip November 27), 6-9 p.m. 8 sessions. Hellems 211. \$551.



(Programming continued)

Continuing Education courses often provide ideal opportunities for students to enhance their skills. Bob Larson took Jim Elliott's C++ class to make himself more marketable to potential employers. "It's a tough market out there—you need all the help you can get." Continuing Education to the rescue!

Introduction to Object-Oriented Programming Using Java

CAPR 2601

This lecture-based course introduces object-oriented programming to programmers familiar with procedural programming, but not object-oriented concepts. Focus is on the essential concepts underlying O-O programming (data abstraction, inheritance and polymorphism) and how these are supported in Java. **Prerequisites:** CANW 3103 *Computer Systems Overview and Architecture* and CAPR 3202 *Algorithm Design* or intermediate level experience with any procedural programming language. To determine if you have the sufficient background to meet the prerequisite requirement, see www.profcon.com/profcon/Prereq.htm. **Recommended text:** *Just Java*, Peter van der Linden.

Carol Meier, MS

Section 300: Tuesdays, September 2-October 14, 6-9 p.m. 7 sessions.
Humanities 180. \$551.



Java for Object-Oriented Experienced Programmers

CAPR 3601

This lecture-based course is an in-depth look at the Java programming language for programmers with object-oriented programming experience, including inheritance and polymorphism. Students will acquire production Java programming skills.

Prerequisite: CAPR 2601 *Introduction to Object-Oriented Programming Using Java*.

Experience with object-oriented programming, including inheritance and polymorphism is required. **Recommended text:** *The Java Programming Language*, Arnold & Gosling.

David Rodenbaugh, BA

Section 300: Tuesdays, October 21-December 9 (skip November 25), 6-9 p.m. 7 sessions.
Humanities 180. \$551.

Advanced Java Programming Language Topics

CAPR 4604

This lecture-based course covers a variety of advanced Java topics including threading and synchronization, the I/O library, serialization, remote method invocation, Java's database connectivity, and some of the following as time permits: network library, inner classes, reflection, Java native interfaces, or Corba. **Prerequisite:** CAPR 3601 *Java for Object-Oriented Experienced Programmers* or equivalent.

George Watson

Section 300: Wednesdays, September 3-October 15, 6-9 p.m. 7 sessions.
Humanities 186. \$551.

GUI Programming in Java

CAPR 5601

This lecture-based course covers GUI programming for stand-alone applications and applets on web pages, using Swing, and the Java Foundation Classes. Fundamental topics include: the AWT, events, containers, and layout management. Swing topics include: model-view-controller, standard dialogs, menus, toolbars, splitter panes, tabbed panes, simple & advanced text components, trees, and tables. This is an intermediate level Java course that requires a solid working knowledge of abstract classes and interfaces. **Prerequisite:** CAPR 3601 *Java for Object-Oriented Experienced Programmers* or equivalent.

Geoff Thompson, MS

Section 300: Mondays, October 20-December 8 (skip November 24), 6-9 p.m. 7 sessions.
Humanities 186. \$551.

Developing Web Applications in Java

CAPR 5602

This lecture-based course covers how to develop web applications using the fundamental J2EE components: Servlets, JavaServer Pages, and Java Beans. It also provides the foundation for advanced J2EE programming. Topics include: J2EE basics, HTTP, servlet details, JSP details, working with beans, multi-threading, and application design, including model-view-controller. A final large example combines all components and shows several HTML tricks.

Prerequisites: CAPR 3601 *Java for Object-Oriented Experienced Programmers* or equivalent and familiarity with HTML.

Geoff Thompson, MS

Section 300: Tuesdays, October 21-December 9 (skip November 24), 6-9 p.m. 7 sessions.
Stadium 135. \$551.

Java Best Practices and Performance Tuning

CAPR 5606

Java applications are easy to write but are they right? A number of key mistakes are made every day by even the most experienced developers when it comes to performance and recommended practices for writing Java applications. This lecture course will demonstrate proven techniques for writing better and faster Java code. **Prerequisite:** CAPR 3601 *Java for Object-Oriented Experienced Programmers* or equivalent.

Gregory Holling, BS

Section 300: Tuesdays, August 26-September 16, 6-9 p.m. 4 sessions.
Stadium 135. \$378.

Object-Oriented Design Patterns

CAPR 5401

Design patterns capture recurring micro-architectural solutions to common O-O software problems. Learning these patterns helps programmers evaluate, communicate, review and implement software designs more effectively.

This one-day lecture class will explain the design pattern concepts, terminology and benefits, and will present a number of fundamental patterns.

Prerequisite: CAPR 2102 Introduction to Object-Oriented Programming in C++ or CAPR 2601 Introduction to Object-Oriented Programming Using Java or familiarity

programming with objects. **Recommended text:** *Object-Oriented Design Patterns*, Gamma, et al.

Gregory Holling, BS

Section 300: Saturday, November 1, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$221.

Object-Oriented Analysis and Design

CAPR 5402

This workshop combines lecture and student participation to give students tools and practical experience in object-oriented analysis and design. The exercises take a manageable, but non-trivial task from analysis through design. This course will be useful for anyone wondering how to find the objects. Upon completion, you will have an excellent foundation to get the most out of Java, C++, C#, and other object-oriented languages.

Prerequisite: CAPR 2102 Introduction to Object-Oriented Programming in C++ or CAPR 2601 Introduction to Object-Oriented Programming Using Java or equivalent.

Students should be comfortable programming with objects.

Gregory Holling, BS

Section 300: Friday and Saturday, October 24 and 25, 9 a.m.-5 p.m. 2 sessions. University Computing Center 123. \$495.

Introduction to Hands-On Visual Basic Programming

CAPR 2301

Visual Basic is a programming language that allows both beginning and experienced programmers to create custom Windows software without having to write out lines of code. The code is automatically generated as the standard Windows elements are inserted into the program by pointing and clicking with the mouse. The "Visual" (graphical) nature of this software makes it possible to create custom Windows programs relatively quickly and easily.

Prerequisite: CAAP 2131 Windows 2000 or CAAP 2141 Windows XP or equivalent.

David Nelson, BSEE

Section 300: Wednesdays, September 3-October 1, 6-9 p.m. 5 sessions. University Computing Center 127. \$473.

Intermediate Hands-On Visual Basic Programming

CAPR 3301

This course is intended for students who have completed the Introduction to Hands-On Visual Basic Programming course, or have the equivalent practical experience. The course will cover a wide range of topics. The goal of the course is to expose a beginning programmer to the possibilities of using Visual Basic in modern applications. Most major elements of the language are covered and concepts of component-oriented applications are introduced. **Prerequisite:** CAPR 2301 Introduction to Hands-On Visual Basic Programming or equivalent.

Steve Kaminski, MSEE

Section 300: Saturdays, October 11-25, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127. \$525.

Visual Basic .NET Programming Concepts

CAPR 4301

This course introduces the concepts of the Visual Basic .NET programming language and its role within the .NET framework to students who are familiar with Visual Basic Version 6.0. Topics will include: the basics of the VB .NET language; the general strategy of .NET applications; object-oriented programming in VB .NET; using ADO .NET to access data; and an overview of using VB .NET to implement web applications and web services. There will also be a session on strategies for transitioning existing Visual Basic 6.0 applications to VB .NET. **Prerequisite:** CAPR 3301 Intermediate Hands-On Visual Basic Programming or equivalent.

Steve Kaminski, MSEE

Section 300: Saturdays, November 1-15, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127. \$525.

Introduction to PERL for Programmers

CAPR 2701

Practical Extraction and Report Language (PERL) is a powerful, flexible, and easy to use scripting language that is suitable for many tasks, including system administration and distributed programming. In web development, it is used for developing CGI scripts. Topics to be covered include statements, variables, operators; arrays and LISTS; hashes; control structures and test; I/O and file handlers; CGI scripts; and much more. **Prerequisite:** CAPR 1001 Introduction to Programming I or one year of previous programming experience (familiarity with programming concepts such as variables, statements, parameters passing, and the idea of modularized code). **Recommended text:** *PERL for Programmers*, 3rd Edition, Wall, Christiansen and Orwant (O'Reilly).

Peter Janett

Section 300: Wednesdays, October 1-29, 6-9 p.m. 5 sessions. Humanities 1B45. \$473.



(Programming continued)

Mitch Woolhiser works for a software company in Denver and took Jim Elliott's C++ class to increase his chances of getting promoted. Because he had to drive in from Denver, he liked the once-a-week schedule, and found the instruction to be especially helpful because "the professors work in the real world. They also give you tips about what to say on job interviews."

Extensible Markup Language (XML)

CAPR 3701

Got data? XML (Extensible Markup Language) is a W3C standard for encoding self-describing data. It is designed to ease the interchange of diverse types of data across a variety of platforms and applications, including the Web. In this lecture-based course, attendees will learn how to create XML documents, use an XML validator, stylesheet processing with CSS and XSL, and use the DOM and SAX parsers to extract XML content for use in Java programs. **Prerequisite:** CAPR 2601 *Introduction to Object-Oriented Programming Using Java* or equivalent. Detailed knowledge of SGML and HTML is not required.

Tom Cargill, PhD

Section 300: Tuesdays, September 23-October 14, 6-9 p.m. 4 sessions. Economics 117. \$436.

Technical Tour of .NET and C#

CAPR 3703

.NET is a new platform from Microsoft, based on a virtual machine (like Java). The C# programming language, a cross between Java and C++, is the closest fit to this machine. This lecture-based course will discuss the .NET virtual machine, its implementations, C#, other compilers, standards, application deployment, and contrasting these with Java. **Prerequisite:** Knowledge of software technologies.

Tom Cargill, PhD

Section 300: Saturday, October 18, 9 a.m.-4 p.m. 1 session. Humanities 270. \$189.

W E B

Internet Fundamentals

CAWB 1001

Acquire a proficient understanding of the Internet! Today, computers are a tremendous resource for accessing and providing information, and communicating with others around the world via the Internet. In this course, you will learn some Internet history; how the Internet works; how to find, view, copy and save information; and how to communicate with other Internet users. **Prerequisite:** Fundamental knowledge of basic computer functions.

Lorraine Revelle, BA

Section 300: Monday and Thursday, August 25 and 28, 6-9 p.m. 2 sessions. Humanities 1B45. \$219.

Design Techniques for Web Sites

CAWB 3101

Learn what it takes to create web sites that are easy to navigate and appealing to the eye! In this course, you will learn about efficient site navigation, the fundamentals of design and color theories, effective uses of fonts, and methods to optimize image compression. **Prerequisite:** CAWB 1001 *Internet Fundamentals* or equivalent.

Brandon Berman, MA

Section 300: Tuesdays, November 4-18, 6-9 p.m. 3 sessions. Humanities 1B45. \$226.

Web Server Administration

CAWB 3102

If you'd like to become a web server administrator on Windows and/or UNIX systems, this class is for you. Topics will cover a broad range of web server software administration issues such as security, virtual hosting, logging, SSL encryption, and middle ware installation of programs such as PERL, PHP, ColdFusion, ASP, CGI, etc. The class will center around common web server setup and maintenance issues and how to perform them using both Windows-based IIS and UNIX-based Apache web servers. We'll also touch on other web-related topics such as FTP, E-mail and DNS (Domain Name System) setups. **Prerequisites:** CAWB 2101 *Internet Applications* and basic knowledge of the Windows and/or UNIX operating system. Knowledge of HTML highly recommended but not required.

Peter Janett

Section 300: Thursdays, November 13-December 11 (skip November 27), 9 a.m.-12 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$353.

Introduction to Hypertext Mark-up Language (HTML)

CAWB 2301

Learn how to create web sites from the ground up! Topics include formatting tags, lists, links, images, and tables. We will also cover meta tags, coding techniques, and web site design tips to make functional and exciting web pages. In addition, you will learn how to FTP your web site and publish it. **Prerequisites:** Proficiency with PCs and the Windows operating system and CAWB 1001 *Internet Fundamentals* or equivalent. An HTML reference book is recommended.

Brandon Berman, MA

Section 301: Wednesdays, September 3-October 1, 9 a.m.-12 p.m. University Computing Center 127.

Ginny Figlar, MA

Section 302: Mondays and Thursdays, October 6-20, 6-9 p.m. Humanities 1B45.

All Sections: 5 sessions. \$353.



Intermediate Hypertext Mark-up Language (HTML)

CAWB 3301

This course builds on the skills learned in CAWB 2301 Introduction to HTML. Learn how to code a definition list; common meta tags; absolute, relative, and base references; and framed sites. **Prerequisite:** CAWB 2301 **Introduction to HTML** or equivalent. You must be proficient with PCs and the Windows operating system and be able to implement all the skills covered in the Introduction to HTML course with minimal assistance. An HTML reference book is recommended.

Brandon Berman, MA

Section 301: Tuesdays, October 7-21, 6-9 p.m. Humanities 1B45.

Dave Taylor, MS, MBA

Section 302: Thursdays, October 23-November 6, 9 a.m.-12 p.m. University Management Systems 101.

All Sections: 3 sessions. \$265.

Advanced Hypertext Mark-up Language (HTML)

CAWB 4301

Putting the pieces together! In this course, students will build on skills learned in the Introduction and Intermediate HTML courses. Learn to code forms to make your web site interactive. Learn how, with Cascading Style Sheets, to have a more sophisticated and uniform layout. We will also review the "big picture" of web site implementation and search engines. **Prerequisite:** CAWB 3301 **Intermediate HTML** or equivalent. You must be proficient with PCs and the Windows operating system and able to implement all skills covered in the Introduction and Intermediate HTML courses to successfully complete this course. An HTML reference book is recommended.

Beth Sigren, BS

Section 301: Wednesdays, October 8-29, University Computing Center 127.

Susan Walanski, BA

Section 302: Wednesdays, November 12-December 10 (skip November 26), Humanities 1B45.

All Sections: 6-9 p.m. 4 sessions. \$353.

Introduction to JavaScript

CAWB 2701

Learn the fundamentals of programming using JavaScript. Topics include fundamental programming concepts such as variables, functions, and objects covered in a hands-on, step-by-step fashion using JavaScript. Class will focus on the language in terms of extending the functionality of a web page. Class will prepare you for the CAWB 3702 Intermediate JavaScript course and assumes no previous high-level programming experience.

Prerequisite: CAWB 4301 **Advanced HTML** or equivalent.

Susan Walanski, BA

Section 301: Wednesdays, September 3-24.

Section 302: Thursdays, October 30-November 20.

All Sections: 6-9 p.m. 4 sessions. Humanities 1B45. \$353.

Intermediate/Advanced JavaScript

CAWB 3703

This course builds upon the programming rules and principles learned in the introductory course and fills in the holes: loops and conditional statements. We will revisit functions and objects (including events) to write more powerful and elegant scripts like form field validation and browser detection. We'll also discuss how to write a JavaScript program from beginning to end, tips and tricks of the programming trade, and where you can go from here. **Prerequisite:** CAWB 2701 **Introduction to JavaScript**.

Susan Walanski, BA

Section 300: Mondays, October 27-December 8 (skip November 24), 6-9 p.m. 6 sessions. Humanities 1B45. \$425.

Introduction to Motion Graphics Using Flash MX

CAWB 2511

Macromedia Flash is the means to designing and delivering low-bandwidth animation and interactivity over the Web. This course introduces the student to the basic skills needed to draw illustrations, create basic animations, and create buttons. Topics include exploring the Flash interface and concepts, working with color and gradients, frame-by-frame animations, shape and motion tweening, and working with symbols and bitmaps. Work will be done both in and outside of class. **Prerequisite:** CAGR 2211/2221 **Illustrator Level I** or equivalent. **Recommended text:** *Flash MX Hands-On Training*, Weil and Green.

Brandon Berman, MA

Section 300: Mondays, September 8-29, 6-9 p.m. 4 sessions. University Computing Center 127. \$353.

Intermediate Motion Graphics Using Flash MX

CAWB 3512

Expand your knowledge of Macromedia Flash and take your movies to the next level. Topics include working with movies and multiple timelines; basic ActionScripting; working with text, sound, and video; publishing; and integrating with other programs. Work will be done both in and outside of class. **Prerequisite:** CAWB 2511 **Introduction to Motion Graphics Using Flash** or equivalent. **Recommended text:** *Flash MX Hands-On Training*, Weil and Green.

Brandon Berman, MA

Section 300: Thursdays, October 2-30, 6-9 p.m. 5 sessions. University Computing Center 127. \$409.

(Web continued)

Advanced Motion Graphics Using Flash MX

CAWB 4511

If you already have a good understanding of the basics of Flash, but want to learn how to put it all together, this is the course for you! In this project-based course, you will learn how to create an integrated presentation or web site entirely in Flash. Topics include loading text from an external text file, making text scrollable, dragging objects, working with video, animating menus, creating volume sliders, and more. Students will be given the freedom to create a site of their own design. Come to the first class with a rough story board of what you would like to create.

Prerequisite: CAWB 3512 **Intermediate Motion Graphics Using Flash** or equivalent.

Brandon Berman, MA

Section 300: Wednesdays, November 5-December 3 (skip November 26), 6-9 p.m. 4 sessions. University Computing Center 127. \$409.

Dreamweaver MX

CAWB 2611

If you haven't seen Dreamweaver in action, this course is a must. This professional level HTML editor is a sophisticated tool for creating web sites. Its powerful site management tools will be covered as well as discussion of layout techniques using tables and layers. Creating rollovers and much more will also be covered.

Prerequisite: CAWB 2301 **Introduction to HTML** or equivalent.

Jeff Braunstein, MS

Section 301: Wednesdays, August 27-September 17, 6-9 p.m. **Required text:** *Dreamweaver MX for Windows and Macintosh: Visual Quickstart Guide*, J. Tarin Towers.

Tim Meehan

Section 302: Wednesdays, October 29-November 19, 9 a.m.-12 p.m. **Required text:** *Macromedia Dreamweaver MX Hands-On Training*, Green and Rudner.

All Sections: 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$353.

ColdFusion MX

CAWB 2811

You've learned how to create basic web pages using HTML. Now what? How do you interact with forms and databases, create search engines, and present custom web pages? ColdFusion can help you do all these things and much more!

It is one of the fastest and easiest applications available to create dynamically-driven web sites. Come see why over one million web sites are using this technology to reuse HTML code, personalize web content, create "shopping carts", and more. **Prerequisites:** CAWB 4301 **Advanced HTML and CAAP 2421 Access 2000 Level I** or equivalent and familiarity with web terminology and web server characteristics. **Required text:** *ColdFusion MX*, Danesh, Motlagh and Camden.

Jeff Braunstein, MS, Macromedia Certified Advanced ColdFusion 5 Developer

Section 300: Mondays and Wednesdays, September 22-October 8, 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$499.

Introduction to Hypertext Preprocessor (PHP)

CAWB 2911

Learn how to create dynamically-driven web pages using PHP - a widely-used Open Source scripting language especially suited for web development. You will learn how to create your own web applications, such as filling out web forms, database searches, shopping carts, and more. Come see why PHP is the most popular Open Source scripting language used today. **Prerequisites:** CAWB 2301 **Introduction to HTML** or equivalent, and familiarity with web terminology and web server characteristics. Knowledge of databases or SQL helpful but not required.

Peter Janett

Section 300: Thursdays, November 6-December 4 (skip November 27), 6-9 p.m. 4 sessions. University Computing Center 127. \$263.

Web Site Design Project

CAWB 9001

Required capstone course for the Certificate in Web Site Design. Students will learn the design process, which begins with interviewing prospective clients and ends with site maintenance. Students will create and update an assigned web site to demonstrate their complete understanding of site design as well as work through the planning stages of a large site. Homework is regularly assigned and completed outside of class. Both attendance and completion of homework as assigned are mandatory for successful completion of this course. **Prerequisites:** Students must have satisfactorily completed all the required courses for the Web Site Design Certificate. CAWB 5311 **Hypertext Mark-up Language Version 4** is highly recommended.

Beth Sigren, BS

Section 300: Wednesdays, November 5-December 10 (skip November 26), 6-9 p.m. 5 sessions. University Management Systems 101. \$394.

The Computer Applications Program offers workshops based on interests and requests from students. Workshops are very informal and give the student more time to interact with the instructor and other students in class. These workshops are designed to enhance the user's skills in a specific area of interest in which they have already had prior training, experience, or background. **The material is presented in a fast-moving, hands-on, step-by-step workshop environment and not designed for novice users - some level of knowledge is required to ensure each individual gets the most out of the workshop.**

All workshops are noncredit and do not apply toward any of our certificate programs. We offer workshops for the lowest rate possible; therefore, discounts that would normally apply to our Program for faculty, staff or students do not apply. Call 303-492-5148 if you are interested in any of the following workshops.

Build Your Own Access Database

CAAP 0000

If you are in the process of creating your own database using Microsoft Access and don't know where to begin or how to end, this workshop is designed for you. It will provide an opportunity to get help on issues regarding your specific database. Be prepared to spend time working on your project in this informal workshop setting. Bring a concept, a design, or files you have already been working on and the instructor will work with you to make your program work efficiently and error-free. Familiarity with table design, data types, creating basic queries, and knowledge of basic form and report design are requirements for this workshop. Enrollment is limited to only six students so the instructor can give attention to each individual and his/her specific needs. **Prerequisite: Some Access experience or background.**

Issy Kilbride

Section 311: Monday and Thursday, September 15 and 18.

Section 312: Monday and Wednesday, October 13 and 15.

All Sections: 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$355.

Tips and Tricks for Microsoft Office

CAAP 0000

Discover fast and easy ways to access frequently used programs and files. Learn how to use some of Office's handy features, such as: make the automatic functions work only when you want; customize your toolbars, menus, and keyboard shortcuts; create macros to complete regular tasks; use WordArt and lots of other drawing options; and find out many more tips and tricks that the instructor has collected over her 20 years of teaching and working with Microsoft products. **Prerequisite: CAAP 2131 Windows 2000 or equivalent.**

Issy Kilbride

Section 313: Tuesday and Thursday, November 11 and 13, 9 a.m.-12 p.m. 2 sessions. University Management Systems 101. \$225.

Photoshop Immersion

CAGR 0000

This is an intensive, hands-on workshop in the latest version of Photoshop for beginning and intermediate users. In this workshop, you'll learn how to use all the major tools and features of Photoshop in a real-world context as you create a sophisticated design project from start to finish. Your instructor will lead you through scores of carefully prepared tutorials peppered with tips and techniques used by the pros. Each lesson builds on those that come before, giving you a chance to practice what you've learned and reinforcing skills you'll use over and over. **Prerequisite: CAAP 2131 Windows 2000 or equivalent.**

Jan Kabili, MFA

Section 311: Fridays and Saturdays, September 19-27, 9 a.m.-4 p.m. 4 sessions. University Management Systems 101. \$495.

Photoshop Elements Immersion

CAGR 0000

Adobe Photoshop Elements is the software deal of the year. It's a complete image editing program that includes the major features found in Adobe Photoshop at a fraction of the cost. This intensive, hands-on training workshop is a complete course in how to use Photoshop Elements to create collages, improve photographs, design graphics, edit type, and more. You'll learn imaging fundamentals, as well as special tips and techniques known only to the pros. You'll be led through over 100 carefully prepared, progressive tutorials designed to teach all the tools and features of Photoshop Elements as you create sophisticated artwork for a series of greeting cards. You'll come away with a thorough understanding of technique, as well as a portfolio of images you'll create from royalty free stock photographs. **Prerequisite: CAAP 2131 Windows 2000 or equivalent.**

Jan Kabili, MFA

Section 312: Fridays and Saturdays, October 3-11, 9 a.m.-4 p.m.

4 sessions. University Management Systems 101. \$495.

Extreme Programming

CAPR 0000

Extreme programming (XP) is a technique for small development teams to quickly develop quality software in the face of rapidly changing requirements. It is a lightweight methodology that challenges many of the sacred cows of software development. In this workshop, you will become more comfortable with the extreme programming methodology and with the more general concept of agile methodologies. The best way to learn about XP is to experience it, so we will spend a fair amount of the workshop time setting up a simulated extreme programming project, and developing a small software application. **Prerequisite: Students should be comfortable writing code in either Java or C++, and should be ready to challenge their basic assumptions about the way software should be written. Recommended Text: *Extreme Programming Explained: Embrace Change*, Kent Beck.**

Gregory Holling, BS

Section 311: Saturday, October 4, 9 a.m.-4 p.m. 1 session.

University Computing Center 127. \$198.

Certificate Programs

We offer certificate programs in Web Graphics, Network Administration, Programming, and Web Site Design. These certificates are designed for beginners, as well as those with intermediate skills in these fields. The courses required for each certificate offer a mix of in-depth theoretical knowledge and real-world experience. Upon completion of the certificate, you should have a good understanding of the basic skills and concepts in that field.

The certificates are not designed to be completed within one semester, but must be completed within three years.

All courses listed under each certificate program must be taken for successful completion of the certificate. If you feel a course within the certificate requirements is too basic, you may replace this course with another within the Computer Applications Program. The course you plan to use as a substitute must relate to the certificate you are working on. **Approval must be obtained for the substitution.** For a substitution request, complete a form online at www.colorado.edu/conted/cpsub.htm. You may also e-mail us at cecas@colorado.edu.

You must receive a satisfactory mark in all the courses that apply toward your certificate. If you receive an unsatisfactory mark, you will need to take the course over again and obtain a satisfactory mark.

Once you have completed all the requirements for your certificate, please send a written request for your certificate of completion to cecas@colorado.edu or to the Computer Applications Program, Division of Continuing Education, University of Colorado at Boulder, 178 UCB, Boulder, CO 80309-0178.

CERTIFICATE IN PROGRAMMING

In this world of ever-changing technology, programmers are constantly needed to develop better applications for everything imaginable. If you like working with computers and solving problems, a career in programming may be for you. Our Programming Certificate can help build the foundation necessary to get into this exciting field.

For successful completion of this certificate, you must take the required introductory courses in Option 1 or 2 (A), the required courses in the C++ or Java tracks (B), and one elective topics course (C). To ensure you get the most out of each course and can actively participate in class, please make sure you have met the prerequisite requirement(s). See the *Prerequisite* section under *General Course Information*.

A. Introductory Courses

Choose One of the Following Two Options

Option 1: For those with little or no programming experience/background (all courses required)

- CAPR 1001 Introduction to Programming I
- CAPR 2101 Introduction to Programming II
- CAPR 3201 Intermediate Application Programming
- CAPR 3202 Algorithm Design

Option 2: For those with some programming experience/background (all courses required)

- CAPR 2201 Introduction to Application Programming
- CAPR 3201 Intermediate Application Programming
- CAPR 3202 Algorithm Design

B. Choose One of Two Tracks

1. C++ Track (all courses required)
 - CAPR 2102 Introduction to Object-Oriented Programming in C++
 - CAPR 4101 Intermediate/Advanced C++ Programming
 - CAPR 5401 Object-Oriented Design Patterns
 - CAPR 5402 Object-Oriented Analysis and Design
2. Java Track (all courses required)
 - CAPR 2601 Introduction to Object-Oriented Programming Using Java
 - CAPR 3601 Java for Object-Oriented Experienced Programmers
 - CAPR 4604 Advanced Java Programming Language Topics
 - One Java Topics Course
 - One Design Topics Course

C. Choose one elective Topics course not already taken for the track requirements

Topics Courses (Not all topics are offered every term.)

Java Topics

- CAPR 4603 Enterprise Java Beans (EJB) Overview
- CAPR 5601 GUI Programming in Java
- CAPR 5602 Developing Web Applications in Java
- CAPR 5603 Java Servlets
- CAPR 5604 Network-Embedded Java Programming
- CAPR 5605 Java Internationalization

Design Topics

- CAPR 5401 Object-Oriented Design Patterns
- CAPR 5402 Object-Oriented Analysis and Design

Visual Basic Topics

- CAPR 2301 Introduction to Hands-On Visual Basic Programming
- CAPR 3301 Intermediate Hands-On Visual Basic Programming
- CAPR 4301 Visual Basic .NET Programming Concepts

PERL Topics

- CAPR 2701 Introduction to PERL for Programmers
- CAPR 3702 PERL for Web Application Programming

Database Design Topics

- CAAP 4501 Database Design Concepts
- CAAP 4502 Relational Database Concepts and SQL Programming

Other Topics

- CAPR 3701 Extensible Markup Language (XML)
- CAPR 5501 Introduction to Software Project Management
- CAPR 3703 Technical Tour of .NET and C#
- CAPR 3704 Web Services and Simple Object Access Protocol (SOAP)

CERTIFICATE IN NETWORK ADMINISTRATION

Looking to start a new career in a technical field? Like helping people solve their computer problems? Then maybe network administration is for you! Networking is an integral part of today's business environment. In our courses, experts will guide you through the program as you gain in-depth theoretical knowledge and hands-on practical experience in the field of network administration. Upon completion of this certificate, you will have a solid understanding of the skills and knowledge necessary to become a network administrator.

To successfully complete this certificate, you must take all the required core courses in Option 1 or 2 (A), one programming course (B), and one database course (C). Option 1 is designed for students with little or no networking background. To begin the certificate with Option 2, you must have taken CANW 1001, 3103, and 4102, or have had equivalent background or training in these areas. **To determine your level, take our online test at compapps.colorado.edu/tests.htm.**

A. Required Core Courses

Choose One of the Following Two Options

Option 1 - Introductory Level

(for those with little or no networking background)

1. Core Courses (all are required)

- CANW 1001 Introduction to Networks
- CANW 3103 Computer Systems Overview and Architecture
- CANW 4102 Operating Systems
- CANW 5402 Local and Wide Area Networking Topics
- CANW 2211 Introduction to Windows 2000 Administration
- CANW 2301 Introduction to UNIX
- CANW 5101 Network Administration

2. Elective (choose one)

- CANW 3211 Intermediate Windows 2000 Administration
- CANW 3301 Intermediate UNIX

Option 2 - Intermediate Level

(for those with some networking background)

Core Courses (all are required)

- CANW 5402 Local and Wide Area Networking Topics
- CANW 2211 Introduction to Windows 2000 Administration
- CANW 3211 Intermediate Windows 2000 Administration
- CANW 2301 Introduction to UNIX
- CANW 3301 Intermediate UNIX
- CANW 4401 Security Essentials and Network Design and Analysis
- CANW 5101 Network Administration
- CANW 5301 UNIX System Administration

B. Programming Course (choose one)

(See page 42 for course listings)

C. Database Course (choose one)

- Any Microsoft Access database course
- CAAP 4501 Database Design Concepts
- CAAP 4502 Relational Database Concepts and SQL Programming

CERTIFICATE IN WEB GRAPHICS

Do you want to create great-looking web sites or improve the look of an existing site? Then earn a certificate in web graphics! With our hands-on classes, you will use the latest technologies to create and optimize clean, quick-loading images that will add originality and excitement to any site. You will learn how to manipulate graphics from start to finish for use on the Web in multiple formats. This is a great opportunity to start your portfolio and add graphics to your skills set. Also, consider the Certificate in Web Site Design to complement your Web Graphics Certificate.

To earn this certificate, you must complete the seven core courses (A), two of the listed electives (B), and the capstone Web Graphics Project course (C). To ensure you get the most out of each course and can actively participate in class, please make sure you have met the prerequisite requirement(s). See the *Prerequisite* section under *General Course Information*.

A. Core Courses (all required)

- CAGR 1121 Introduction to Graphic Design
- CAGR 2111/2121 Introduction to Photoshop
- CAGR 3111/3121 Photoshop for the Web
- CAGR 2211/2221 Illustrator Level I
- CAWB 2301 Introduction to HTML
- CAWB 2511 Introduction to Motion Graphics Using Flash
- CAWB 2611 Dreamweaver

B. Electives (choose two)

- CAGR 3211/3221 Illustrator Level II
- CAGR 3321 Macromedia Director Shockwave Studio
- CAGR 3421 Multimedia Solutions
- CAGR 3511 Macromedia Fireworks
- CAWB 3512 Intermediate Motion Graphics Using Flash
- CAWB 4511 Advanced Motion Graphics Using Flash

C. Capstone Course

All the required courses listed in A and B above must be successfully completed before you can enroll in this course.

- CAGR 9001 Web Graphics Project

CERTIFICATE IN WEB SITE DESIGN

Enter the innovative and challenging field of web site design! Whether you are looking for a career change, advancing your current position, or just wanting to do something for fun, learning how to design web sites will help you get there. The Web has become such an integral part of our everyday lives that learning the skills of a web designer will give you advantages, no matter what you do. All classes are hands-on and taught by web design professionals. Upon completion of the certificate, you will be able to confidently design your own web sites using some of the latest technologies available. Also, consider the Certificate in Web Graphics to complement your Web Site Design Certificate.

To earn this certificate, you must complete the five required core courses (A, B), one multimedia course (C), one graphics course (D), two elective courses (E), and the capstone Web Site Design Project course (F). To ensure you get the most out of each course and can actively participate in class, please make sure you have met the prerequisite requirement(s). See the *Prerequisite* section under *General Course Information*.

A. Required Core Courses

All four courses listed below are required and must be taken in sequence

- 1st – CAWB 2301 Introduction to HTML
- 2nd – CAWB 3301 Intermediate HTML
- 3rd – CAWB 4301 Advanced HTML
- 4th – CAWB 2701 Introduction to JavaScript

B. Other Required Core Course

CAWB 3101 Design Techniques for Web Sites

C. Multimedia Elective (choose one)

- CAGR 3321 Macromedia Director Shockwave Studio
- CAGR 3421 Multimedia Solutions
- CAWB 2611 Dreamweaver*
- CAWB 2511 Introduction to Motion Graphics Using Flash*
- CAWB 3512 Intermediate Motion Graphics Using Flash*
- CAWB 4511 Advanced Motion Graphics Using Flash*

* *Note: CAWB 2611, CAWB 2511, CAWB 3512 and CAWB 4511 cannot be used to fulfill the Multimedia Elective if you are already taking one of these courses to fulfill the Web Course Elective.*

D. Graphics Elective (choose one)

- CAGR 2111/2121 Introduction to Photoshop
- CAGR 3111/3121 Photoshop for the Web
- CAGR 2211/2221 Illustrator Level I
- CAGR 3211/3221 Illustrator Level II

E. Web Course Elective (choose two)

- CAWB 3102 Web Server Administration
- CAWB 3703 Intermediate/Advanced JavaScript
- CAWB 2911 Introduction to Hypertext Preprocessor (PHP)
- CAWB 2811 ColdFusion
- CAWB 2611 Dreamweaver*
- CAWB 2511 Introduction to Motion Graphics Using Flash*
- CAWB 3512 Intermediate Motion Graphics Using Flash*
- CAWB 4511 Advanced Motion Graphics Using Flash*

* *Note: CAWB 2611, CAWB 2511, CAWB 3512 and CAWB 4511 cannot be used to fulfill the Web Course Elective if you are already taking one of these courses to fulfill the Multimedia Elective.*

F. Capstone Course

All the required courses listed in A-E above must be successfully completed before you can enroll in this course.

CAWB 9001 Web Site Design Project

learn...grow...become...

The International English Center, IEC, offers an intensive, full-time program for international students; evening classes in English as a second language for community residents or interested visitors from other countries; and effective writing courses for ESL graduate students. The IEC is located at 1030 13th Street.

EVENING COURSES

Courses are six weeks in length and are offered five times a year. Students should have at least a high school education.

Beginning Level

NCIE 6100

For students who speak in simple sentences, have a limited vocabulary, understand some (not necessarily all) of what is said, and are familiar with the present tense (but may have some difficulty with other tenses).

Fall I Session: Mondays and Wednesdays, September 3-October 15, 6:30-8:30 p.m. Tuition: \$345, materials included.

Fall II Session: Mondays and Wednesdays, November 5-December 17, 6:30-8:30 p.m. Tuition: \$345, materials included.

Intermediate Level

NCIE 6200

For students who have more than a basic vocabulary, understand much of what is said, can use basic verb tenses effectively, can read a variety of materials but experience some difficulty, and need guidance in writing.

Fall I Session: Mondays and Wednesdays, September 3-October 15, 6:30-8:30 p.m. Tuition: \$345, materials included.

Fall II Session: Mondays and Wednesdays, November 5-December 17, 6:30-8:30 p.m. Tuition: \$345, materials included.

Advanced Level

NCIE 6300

For students who have an extended vocabulary, understand most verb tenses effectively, read a variety of materials with little difficulty, write effectively with little guidance, and have a desire to polish their skills.

Fall I Session: Mondays and Wednesdays, September 3-October 15, 6:30-8:30 p.m. Tuition: \$345, materials included.

Fall II Session: Mondays and Wednesdays, November 5-December 17, 6:30-8:30 p.m. Tuition: \$345, materials included.

Effective Pronunciation

NCIE 6400

For intermediate to advanced level students who want to understand and control the sounds of American English, want to be more easily understood, and want to practice and improve difficult sounds.

Fall I Session: Tuesdays, September 2-October 14, 6-8:30 p.m. Tuition: \$225, materials included.

Fall II Session: Tuesdays, November 4-December 16, 6-8:30 p.m. Tuition: \$225, materials included.

Writing Skills

NCIE 6500

For high-intermediate to advanced level students who wish to work on general writing skills and grammar; need help with academic or business writing, reports, essays, letters and other essential writing needs; and would like a better understanding of formal and informal writing.

Fall I Session: Tuesdays, September 2-October 14, 6-8:30 p.m. Tuition: \$225, materials included.

Fall II Session: Tuesdays, November 4-December 16, 6-8:30 p.m. Tuition: \$225, materials included.

EFFECTIVE WRITING FOR ESL GRADUATE STUDENTS

These noncredit modules provide instruction in writing skills and techniques required of students in master's and doctoral degree programs. Instruction is suitable both for graduate students who use English as a second language (ESL) as well as for any graduate student who needs to improve his or her writing for coursework and thesis writing at the graduate level. Tuition is \$60 for each module.

Module 1 - Graduate Writing: Description, Summary, and Abstract NCIE 7100-143

This module provides information about writing basic description: how to approach an article or other written document, an experiment, or personal research; how to organize the description; considerations of purpose and audience including vocabulary, person, voice, and tone.

Module 2 - Graduate Writing: Persuasion, Analysis, and Argument NCIE 7100-144

This instructional module discusses the organization and rhetorical aspects of analysis and argument, and provides examples and web links to resources for writing persuasive documents. Module instruction covers the distinction between pure analysis (why something is as it is), pure argument (debate: pro/con), and proposal writing.

Module 3 - Graduate Writing: Prospectus and Proposal NCIE 7100-145

This module instructs students in writing a basic prospectus (for thesis and dissertation), including purpose, background/literature search, and intended result. The prospectus, in other words, must persuade the student's academic committee that the project is worthwhile. The process for writing a non-academic proposal is similar; the need for the proposal or solution to a problem must be shown. The format for writing the prospectus/proposal is also covered.

Module 4 - Graduate Writing: Research and Citations NCIE 7100-146

This instructional module covers the following aspects of research: how to conduct a search of appropriate literature (including sorting and analysis of dissertation abstracts, books, articles/journals, live/personal information); how to determine what's important and what's not; and how to do citations for in-text and end-text references. The module links the instruction to texts, style guides, and online assistance, and notes the citations required by the department and graduate school. Instruction also covers how to justify, annotate, and organize a bibliography.

For more information, please visit our web site at www.colorado.edu/iec or call 303-492-5547.



Center for Business Education

The Center for Business Education (CBE) is a partnership between the University of Colorado at Boulder's Division of Continuing Education and the Leeds School of Business. We are proud to offer:

EXECUTIVE EDUCATION

50 for Colorado, a leadership development program, offers 50 individuals each year the opportunity to come together to learn, experience, network, and transfer knowledge about critical elements of the Colorado economy. The *50 for Colorado* program attracts current and emerging Colorado leaders who wish to study, discuss, and evaluate issues involving the business, government, and economic environment of Colorado. *50 for Colorado* offers participants, in both business and social settings, direct contact with a wide spectrum of businesses, institutions, and people who are shaping Colorado. Classes are held one to two days a month over a ten-month time frame. An individual must be nominated in order to participate. The next *50 for Colorado* class is scheduled to begin in January 2004.

Colorado Executive Development in Residence, CEDIR, offers experienced business professionals a critical overview of fundamental business concepts in an interactive environment specifically designed for practicing managers. Participants will gain a solid foundation in fundamental business skills, enhance their functional knowledge of business, receive exposure to the latest management ideas, and learn to be more productive employees. A participant can choose to complete one to four of the twelve courses conducted each summer. Upon successful completion of the twelve courses, participants will earn a Certificate in Executive Management. Executives from numerous market-leading companies including IBM, Level 3 Communications, and Sun Microsystems have participated. *CEDIR will be offered in summer 2004.*

Custom Business Programs can be developed to meet the specific needs of any business and its employees. Access the extensive resources of the Leeds School of Business. Clients can choose location, format, length, and more.

UNDERGRADUATE PROGRAM

CU Business Intensive Certificate, CUBIC, is an excellent opportunity for non-business juniors and seniors from any accredited higher education institution. CUBIC allows participants to obtain a solid understanding of fundamental business practices, acquire skills that will guide them in their career, and provides business knowledge that will enhance their undergraduate studies. The six subjects covered by classes offered in this program include: accounting, finance, marketing, economics, management, and an elective - personal finance or computer applications. Upon successful completion of this three-week, noncredit program, students will earn a Certificate in Applied Business. *CUBIC will be offered May 10-28, 2004.*

REAL ESTATE APPRAISAL PROGRAM

The **Real Estate Appraisal Program** offers appraisal courses to students who would like to enter the appraisal profession, increase licensure levels, and continuing education renewal for those already in the field.

If you are looking for a career change, sign up for the Registered Appraiser courses. A Registered Appraiser is an apprentice-level appraiser who may do mortgage work under the direct supervision of a licensed or certified appraiser. After completing 75 hours of appraisal education and training courses, including 15 hours of ethics and standards of practice, you must pass the State Level A licensing exam to qualify. The courses that we offer to fulfill the classroom requirements are NCRE 200 (48 hours), NCRE 202 (16 hours), and NCRE 204 (32 hours).

Registered Appraiser: Basic Appraisal Principles and Procedures NCRE 200

Section 301 - Boulder
September 11, 12, 13, 18, 19, 20; 8 a.m.-5 p.m.
\$585; 10% discount through August 28

Standards and Ethics NCRE 202

Section 301 - Boulder
October 3 and 4; 8 a.m.-5 p.m.
\$235; 10% discount through September 19

Basic Appraisal Applications: Residential Case Study NCRE 204

Section 301 - Boulder
October 10, 11, 17, 18; 8 a.m.-5 p.m.
\$375; 10% discount through September 26

We also offer courses that fulfill state mandated education requirements for the higher levels of appraisal licensure. A Licensed Appraiser primarily appraises one to four-unit residential properties, and may be accepted for all assignments (including land and commercial) where the loan amount is \$250,000 or less. A Certified Residential Appraiser may be accepted to appraise one to four-unit residential properties, regardless of loan amount or complexity; any nonresidential property up to a \$250,000 loan amount; and certain other assignments in supervised situations. A Certified General Appraiser may be accepted to appraise any property type or any loan amount.

Effective July 1, 2002, the University of Colorado at Boulder no longer offers real estate broker education courses. To find another provider, check the Colorado Real Estate Commission web site at dora.state.co.us/real-estate/.



For more information on the CBE and its programs please visit the web site at leeds.colorado.edu/cbe or contact us at 303-492-5148.

EMBEDDED SYSTEMS CERTIFICATE

The Department of Electrical and Computer Engineering has developed a certificate program in Embedded Systems designed to build and enhance professional knowledge and skills in this high demand field. The certificate develops skills in design and use of embedded systems technology; expands current knowledge and applies new ideas in practice; provides hands-on experience in embedded system design; and enhances career opportunities.

The certificate consists of 3 graduate-level courses. All credits earned in the certificate can be transferred to a graduate engineering program at CU-Boulder. For more information, visit the web site www.colorado.edu/conted/certif.htm.

OUTREACH

Each year Continuing Education designates funds for supporting CU-Boulder faculty outreach efforts. These activities extend faculty expertise to external audiences in communities across Colorado, and in some cases, to different parts of the world. Using a portion of the revenue generated through its credit and noncredit courses, Continuing Education partners with CU-Boulder's Chancellor and Provost to fund the CU-Boulder Outreach Committee.

The committee awards grants twice annually to programs for external audiences that highlight faculty research, creative work, and teaching. Project grants are awarded in a wide variety of subject matter, including everything from history, dance, philosophy and Shakespeare to physics, geology, and engineering.

Some recent outreach projects include:

Contemporary Dance Works: This touring dance company, comprised of CU-Boulder students, brings dance demonstrations, classes, and informal lectures to rural towns in Colorado. The project has been working in the San Luis Valley for the past two years.

Summer Institute in Applied Math: This program brings high school math teachers from across Colorado to the Boulder campus for intensive two-week courses in calculus, discrete math, algebra, and statistics.

Engineers Without Borders: This outreach activity is dedicated to helping developing areas worldwide with their civil and environmental engineering needs, while increasing engineering students' international awareness. Projects are currently underway in Afghanistan, Mali, Mauritania, Belize, and Thailand.

For additional information, visit the web site at www.colorado.edu/conted/outreach.htm.

SOFTWARE ENGINEERING CERTIFICATE

The Software Engineering Certificate is another certificate program from the CU-Boulder Department of Electrical and Computer Engineering. The relentless pace of change has characterized the field of software development, programming, and engineering since its beginning. This program is designed to benefit those regardless of their background or years of experience.

The certificate consists of 3 graduate-level courses in the areas of:

- Software Engineering of Stand-Alone Programs
- Software Engineering of Multi-Program Systems
- Software Engineering of Distributed Software Systems

Each course carries 3 semester hours of academic credit at the graduate level. All credits earned in the certificate can be transferred to an appropriate graduate engineering program at CU-Boulder. For more information, visit the web site at www.colorado.edu/conted/certif.htm.

COMPUTER TRAINING SERVICES FOR BUSINESSES

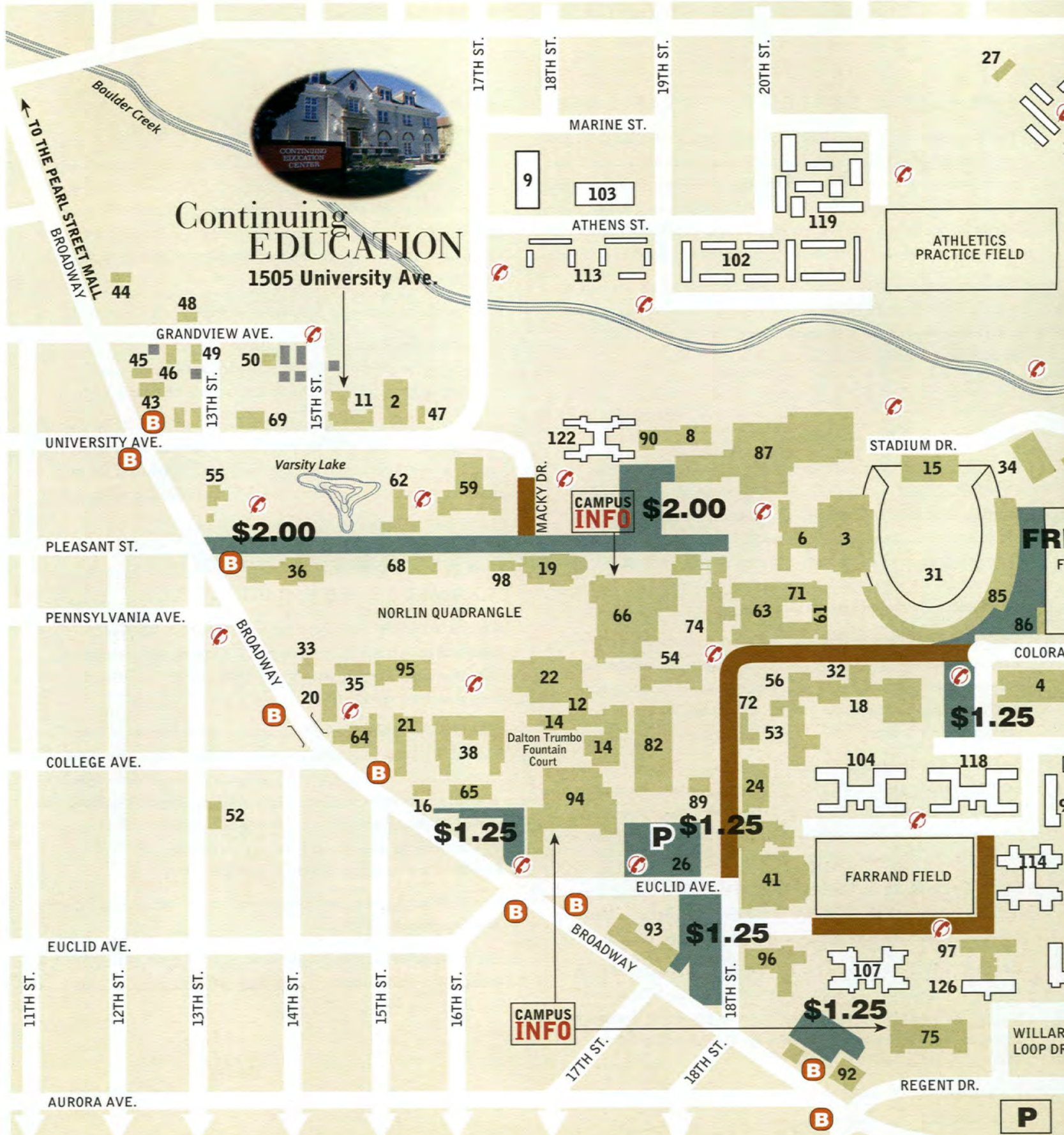
Does your business have computer training needs? Whether it's computer application classes held during the evenings or weekends, customized training, or even computer labs for rent, CU-Boulder can help meet your needs.

The Division of Continuing Education at the University of Colorado at Boulder has been successfully training people in computer technologies since the early 1980s through its Computer Applications Program. Excellent instructors, state-of-the-art computer labs, and reasonable rates make CU's program stand out. Businesses of all types and sizes can capitalize on the expertise and resources at CU-Boulder. So, if your business has a training need, let us be your solution.

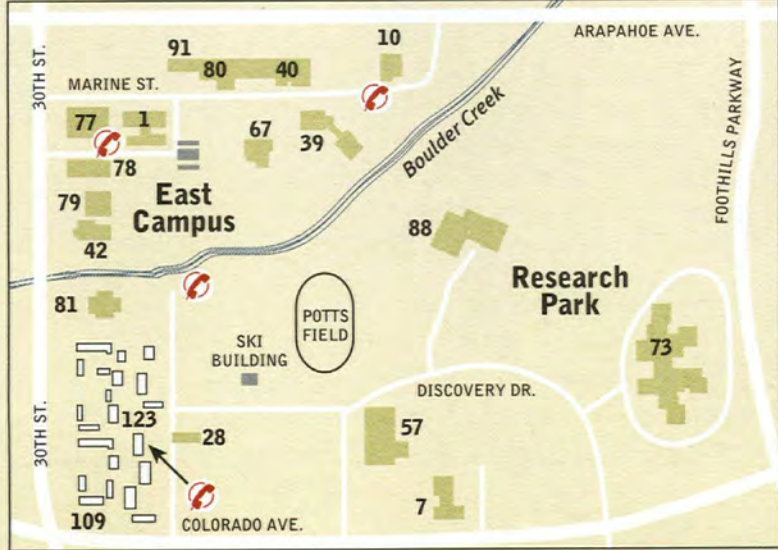
Special Offer: Sign up three employees from your business and get the fourth registration free!

For information about any of our services, call 303-492-6596, e-mail cecas@colorado.edu, or visit www.colorado.edu/conted/cts.

Learn...grow...become...

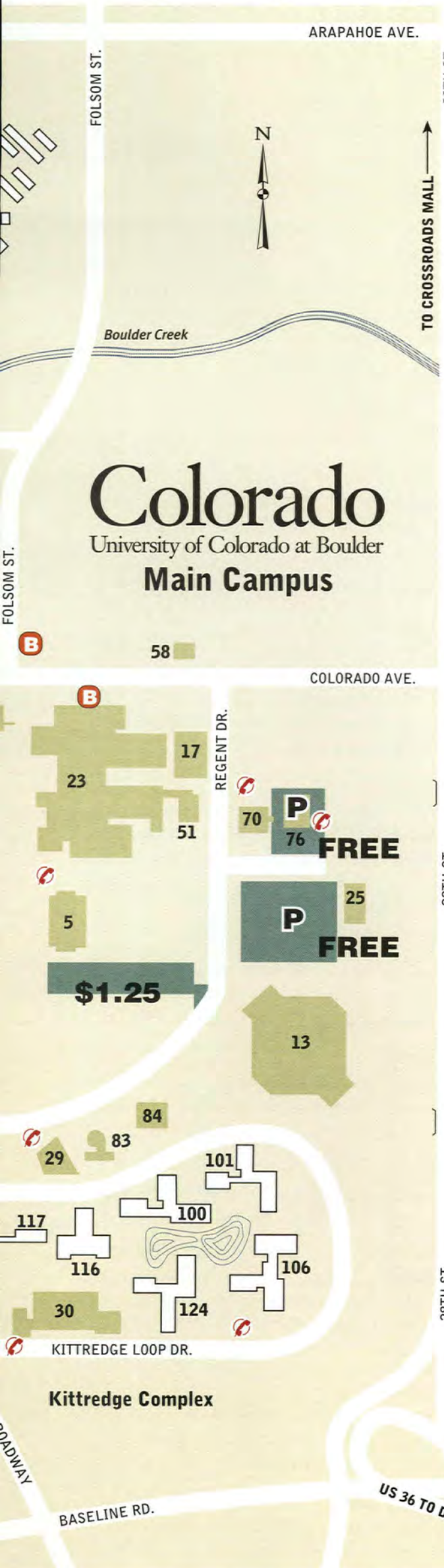


**Continuing
EDUCATION**
1505 University Ave.



Legend

- Streets (many main campus streets are limited access during certain hours)
- Limited access streets
- Major buildings
- Housing (residence halls and family housing)
- Pedestrian/bicycle underpass
- FREE** Free parking after 5 p.m., and Saturdays
- \$1.25** \$1.25/\$2.00 parking weekdays after 5 p.m., and Saturdays and Sundays. Exact change in quarters suggested
- Emergency telephones
- RTD bus stops bordering campus



Colorado

University of Colorado at Boulder
Main Campus

University Buildings

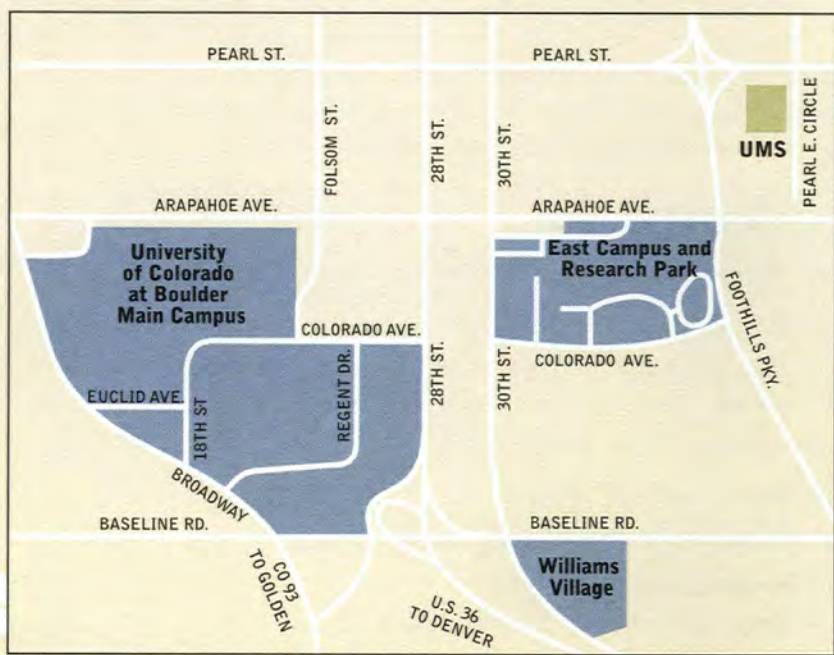
1. Administrative and Research Center—East Campus (J-2) (ARCE)
2. Armory (D-4) (ARMR)
3. Balch Fieldhouse (E-7) (FH)
4. Benson Earth Sciences Building (F-9) (BESC)
- * Bruce Curtis Collections. See *Museum Collections*.
5. Business (H-10) (BUS)
6. Carlson Gymnasium (E-7) (CARL)
7. Center for Astrophysics and Space Astronomy (L-3) (CASA)
8. Clare Small Arts and Sciences (D-6) (CLRE)
- * Charlotte York Irey Studios (F-4). See *University Theatre*.
9. College Inn Conference Center (B-5) (CICC)
10. Computing Center (J-3) (COMP)
11. Continuing Education (D-4) (CEDU)
12. Cooperative Institute for Research in Environmental Sciences (F-5) (CIRES)
13. Coors Events/Conference Center (I-12) (EVNT)
14. Cristol Chemistry and Biochemistry (G-5) (CHEM)
15. Dal Ward Athletic Center (D-8) (DALW)
16. Denison Arts and Sciences (G-4) (DEN)
17. Discovery Learning Center (F-11) (DLC) (under construction, 2002)
- * Duane Physical Laboratories (F-7). See *Duane Physics and Astrophysics, Gamow Tower, Laboratory for Atmospheric and Space Physics, and Joint Institute for Laboratory Astrophysics*.
18. Duane Physics and Astrophysics (F-7) (DUAN)
19. Eaton Humanities Building (E-5) (HUMN)
20. Economics (F-3) (ECON)
21. Education (G-4) (EDUC)
22. Ekeley Sciences (F-5) (EKLC)
23. Engineering Center (F/G-10/11) (EC)
24. Environmental Design (G-7) (ENVN)
25. Environmental Health and Safety Center (I-2)
26. Euclid Avenue Autopark (G-6) (EPRK)
27. Family Housing Children's Center—Main Offices (A-9) (DACR)
28. Family Housing Children's Center—Colorado Court (L-2)
- * Fine Arts (G-6). See *Sibell Wolle Fine Arts*.
29. Fiske Planetarium and Science Center (J-10) (FISK)
30. Fleming Law (K-10) (LAW)
31. Folsom Stadium (E-8) (STAD)
32. Gamow Tower (F-7) (DUAN)
33. Gates Woodruff Women's Studies Cottage (F-3) (COTT)
34. Grounds and Service Center (D-9) (GRNS)
35. Guggenheim Geography (F-3) (GUGG)
36. Hale Science (E-3) (HALE)
37. Health Physics Laboratory (D-9) (HPHY)
38. Helms Arts and Sciences/Mary Rippon Theatre (G-4) (HLMS)
- * Henderson Building (G-4). See *Museum of Natural History*.
39. Housing System Maintenance Center (K-3) (HSMC)
40. Housing System Service Center (J-2) (HSSC)
- * Humanities Building (E-5). See *Eaton Humanities*.
41. Imig Music (H-7) (MUS)
42. Institute for Behavioral Genetics (K-1) (IBG)
43. Institute of Behavioral Science No. 1 (D-2) (IBS1)
44. IBS No. 2 (C-2) (IBS2)
45. IBS No. 3 (D-2) (IBS3)
46. IBS No. 4 (D-2) (IBS4)
47. IBS No. 5 (D-4) (IBS5)
48. IBS No. 6 (C-2) (IBS6)
49. IBS No. 7 (C-2) (IBS7)
50. IBS No. 8 (C-3) (IBS8)
51. Integrated Teaching and Learning Laboratory (G-11) (ITLL)
52. International English Center (G-2) (IEC)
53. Joint Institute for Laboratory Astrophysics (G-7) (JILA)
54. Ketchum Arts and Sciences (F-6) (KTCH)
55. Koenig Alumni Center (E-2) (ALUM)
56. Laboratory for Atmospheric and Space Physics (F-7) (LASP)
57. LASP Space Technology Research Center (L-3) (LSTR)
- * Leeds School of Business (H-10). See *Business*.
58. Lesser House (F-11) (LESS)
- * Life Sciences Laboratories Complex (E-7). See *Muenzinger Psychology, Porter Biosciences, and Ramaley Biology*.
59. Macky Auditorium (D-4) (MCKY)
60. Mathematics Building (F-10) (MATH)
61. MCD Biology (E-7) (MCDB)
62. McKenna Languages (E-4) (MKNA)
63. Muenzinger Psychology (E-7) (MUEN)
64. Museum Collections (G-3) (MCOL)
65. Museum of Natural History, University of Colorado (G-4) (HEND)
- * Music Building (H-7). See *Imig Music*.
66. Norlin Library (F-6) (LIBR)
67. Nuclear Physics Laboratory (K-2) (NPL)
68. Old Main (E-4) (MAIN)
69. Page Foundation Center (D-3) (PFDC)
70. Police and Parking Services (G-12) (PDPS)
71. Porter Biosciences (E-7) (PORT)
72. Power House (F-6) (POWR)
73. Qwest Research Park (L-4) (USW)
74. Ramaley Biology (E-6) (RAMY)
75. Regent Administrative Center (I-8) (RGNT)
76. Regent Drive Autopark (G-12) (RPRK)
77. Research Laboratory, Litman RL1 (J-1) (LITR)
78. Research Laboratory, WICHE (K-1) (RL2)
79. Research Laboratory, Life Science RL4 (K-1) (LSRL)
80. Research Laboratory (Marine Street Science Center) RL6 (J-2) (MSSC)
81. Research Park Greenhouse (K-1) (GH-3)
82. Sibell Wolle Fine Arts (G-6) (FA)
83. Sommers-Bausch Observatory (I-11) (OBSV)

84. Speech, Language, and Hearing Sciences (I-11) (SLHS)
85. Stadium Offices (E-8) (STAD)
86. Stadium Ticket Building (F-9) (STTB)
87. Student Recreation Center (D-6/7) (REC)
88. Sybase (K-3) (SYBS)
89. Telecommunications Building (G-6) (TCOM)
90. Temporary Building No.1 (D-6) (TB01)
91. Transportation Center (J-2) (TRAN)
92. University Administrative Center and Annex (I-7) (UCTR)
93. University Club (H-6) (CLUB)
94. University Memorial Center (G-5) (UMC)
95. University Theatre (including Charlotte York Irey Studios) (F-4) (THTR)
96. Wardenburg Health Center (H-7) (WARD)
97. Willard Administrative Center—North Wing (H-9) (WCTR)
98. Woodbury Arts and Sciences (E-5) (WDBY)

University Housing

99. Aden Hall—Quadrangle (G-9) (ADEN)
100. Andrews Hall—Kittredge Complex (J-11) (ANDS)
101. Arnett Hall—Kittredge Complex (J-12) (ARNT)
102. Athens Court (B/C-6/7) (ATCT)
103. Athens North Court (B-6) (ATHN)
104. Baker Hall (G-7) (BKER)
105. Brackett Hall—Quadrangle (G-9) (BRKT)
106. Buckingham Hall—Kittredge Complex (K-12) (BUCK)
107. Cheyenne Arapaho Hall (H-7) (CHEY)
108. Cockrell Hall—Quadrangle (G-10) (CKRL)
9. College Inn (B-5) (CICC)
109. Colorado Court (L-1)
110. Crosman Hall—Quadrangle (G-10) (CROS)
111. Darley Commons—Williams Village (DLYC)
112. Darley Towers—Williams Village (DLYT)
113. Faculty-Staff Court (C-5/6) (FACT)
114. Farrand Hall (H-9) (FRND)
115. Hallett Hall (H-9) (HLET)
116. Kittredge Commons—Kittredge Complex (J-10) (KITT)
117. Kittredge West Hall—Kittredge Complex (J-10) (KITW)
118. Libby Hall (G-8) (LIBY)
119. Marine Court (B-7) (MRCT)
120. Newton Court (B/C-9/10) (NTCT)
121. Reed Hall (H-10) (REED)
122. Sewall Hall (D-5) (SWLL)
123. Smiley Court (L-1) (SMCT)
124. Smith Hall—Kittredge Complex (K-11) (SMTH)
125. Stearns Towers—Williams Village (STRN)
126. Willard Hall—South Wing (H-8) (WLRD)
- * Williams Village. See *Darley Commons, Darley Towers, and Stearns Towers*.

University meters are enforced between 7 a.m. and 5 p.m. seven days a week, including Saturdays & Sundays.



Based on map produced by University Communications.

Registration Information

Registration Begins August 4!

1. **Register by Mail.** A postage-paid envelope is located in this catalog. Registration forms are on page 59 for evening credit and page 60 for personal enrichment and computer courses.
2. **Fax Your Registration.** Fast and easy. Day or night to 303-492-3962. Send page 59 for evening credit courses and page 60 for personal enrichment and computer courses.
3. **In Person.** Come to the Continuing Education Office, 1505 University Avenue.
4. **Online** at www.colorado.edu/conted/noncreditapp.htm for noncredit courses including Personal Enrichment and Computer Applications using Visa, MasterCard and Discover.
5. **By Phone for Personal Enrichment and Computer Courses using Visa, MasterCard, and Discover.** Complete the registration form (page 60) and have your credit card information handy. Then call 303-492-5148 or 800-331-2801 (TTY 303-492-8905).
6. **Use PLUS or the automated telephone system for Boulder Evening and Independent Learning Courses.** See page 16 for more information.

Costs vary. Tuition is listed at the end of each course description. You may pay by Visa, MasterCard, Discover, cash or check.

Office Hours

Summer hours through August 15:

Monday-Friday 7:30 a.m.-4:30 p.m.

Fall hours beginning August 18

Monday-Friday 8 a.m.-5 p.m.

The University will be closed Monday, September 1, and Thursday and Friday, November 27 and 28.

Tuition

Tuition charges for **credit** courses offered by the Division of Continuing Education are determined by program and by the residency status of the student. Residents of Colorado are assessed tuition based on the price per semester hour and the number of semester hours for which they register. Tuition is based on the cost cited in the most recent program publication. Nonresidents of Colorado are assessed tuition based on the price per semester hour and the number of semester hours for which they register. Nonresidents may register for up to three (3) semester hours at the nonresident reduced rate cited in the most recent program publication. Nonresidents registering for four (4) or more semester hours of credit courses offered by the Division of Continuing Education, regardless of program, are assessed nonresident tuition for all courses at the rate established by the Board of Regents for that term or session. The Board of Regents reserves the right to change tuition without prior notice.

Student residency does not affect tuition charged for Personal Enrichment and Computer Applications courses.

All tuition and refund determinations are subject to audit.

Credit Programs

You can earn academic credit at every level, high school through graduate school in a variety of learning formats. Credit programs include:

- Boulder Evening Credit Program
- Independent Learning Programs
- ACCESS and High School Concurrent Programs
- Center for Advanced Training in Engineering and Computer Science (CATECS)
- Summer Session

Learning for Learning's Sake: Personal Enrichment Program

Noncredit courses offered at convenient evening hours means no tests, no grades, and no prerequisites. Yet personal enrichment courses encompass both personal and professional interests and are taught by highly qualified instructors. Enjoy non-competitive learning with others who share your interests.

Professional Enhancement: Certificate Programs

To polish skills or explore another field, Continuing Education offers a full spectrum of programs.

Network Administration

Programming

Web Site Design

Web Graphics

Professional Development Programs

For working professionals to build and enhance business skills.

Center for Business Education

International English Center

Course Locations

Course locations are noted at the end of most course descriptions. Many campus parking lots offer \$1.25 or \$2.00 parking after 5 p.m. and on Saturdays. Some are free during evenings and weekends. The Campus Map gives both building and parking lot locations. To skip parking altogether, take the RTD bus to campus.

Parking

Continuing Education students follow campus policy procedures. Parking permits may be purchased through Parking Services, 1050 Regent Drive. During special events on campus, students may present their registration receipt to park at no extra charge. Additional information is available on the Web at ucbparking.colorado.edu.

Course Updates

Occasionally information printed in this catalog changes such as course locations, cancellations, etc. For the most up-to-date information, visit our web site at www.colorado.edu/conted.

Change Your Mind?

Please let us know. If you drop a course before it begins, you may receive a full refund. Refer to each program description for refund policies after a course begins.

Student Privacy

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

Severe Weather

Classes are held when scheduled. The Chancellor closes the campus only because of extreme weather conditions. Closings are announced on local radio and television stations. Or call 303-735-5000 for course closing information.

Books and Supplies

Required course materials are available at the CU Bookstore in the University Memorial Center on campus. Call 303-492-6411 or visit their web site at cubooks.colorado.edu.

Additional Information

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

Noncredit Registration Form

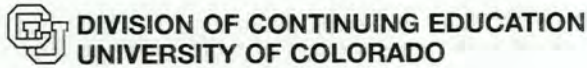
The University of Colorado at Boulder does not discriminate on the basis of race, color, national origin, sex, age, disability, creed, sexual orientation, religion, or veteran status in admission to, and treatment and employment in, its educational programs and activities. The University takes affirmative action to increase ethnic, cultural, and gender diversity; to employ qualified disabled individuals; and to provide equal opportunity to all students and employees.

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The Department of Equal Opportunity is responsible for educational and employment opportunity, implementation of affirmative action programs, and coordination of Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1973, the Vietnam Era Veteran's Readjustment Act of 1974, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990. For further information about these provisions, or about issues of equity, discrimination, or fairness, write Garnett K. Tatum, Director, Department of Equal Opportunity, University of Colorado at Boulder, 144 UCB, Boulder, CO 80309-0144 or call 303-492-6706.

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.

Instruction offered as part of the Statewide Extended Studies Program.



PROGRAM: Computer Applications Personal Enrichment Real Estate Appraisal **TERM:** Fall Spring Summer **YEAR:** _____

FULL LEGAL NAME: _____ **SEX:** Male Female
Last First Middle Former or Maiden

CU STUDENT NO.: _____ **SOCIAL SECURITY NO.:** _____
(if applicable) (For identification purposes only. Required for TRA tax credits.)

HOME WORK **ADDRESS:** _____
No. and Street, Apt. No. City State Zip

If using "work" address, enter **COMPANY NAME:** _____

HOME PHONE: _____ **DAY PHONE:** _____ **E-MAIL:** _____

COMPUTER APPLICATIONS:

Are you working toward a program certificate? No Yes

If yes, please indicate which certificate:

- Network Administration
 Programming
 Web Site Design
 Web Graphics

ETHNICITY:

- African American or Black, not of Hispanic origin
 American Indian or Alaskan Native - Tribe: _____
 Asian or Pacific Islander
 Hispanic, Chicano, Mexican American, Latino
 Multiracial - define: _____
 White, not of Hispanic origin
 I do not wish to provide this information

SELECTIVE SERVICE REGISTRATION CERTIFICATION:

This question must be answered to comply with Colorado State Law. If you are a male born after December 31, 1959, are you registered with the Selective Service?

Yes No N/A

- Are you a University of Colorado at Boulder faculty/staff member? No Yes
- Have you ever enrolled for any courses at any campus of the University of Colorado? No Yes If yes, most recent: Term: ____ Year: ____ Campus: ____
- Do you owe a debt to any University of Colorado campus? No Yes
- Have you ever been convicted of a felony? No Yes (If yes, you must attach the required "CE supplemental form.")

COURSE SELECTION	Alpha Prefix	Course No.	Section No.	COURSE TITLE	Tuition
Total Enclosed					\$

I hereby certify that, to the best of my knowledge, the information furnished on this application is true and complete. Please register me for the course(s) listed above. I agree to observe all campus policies and regulations including the Honor Code.

Signature: _____ Date: _____

Tuition Payment

(Your payment must accompany this registration form.)

Method of payment: Check or Money Order (Make payable to **University of Colorado**, and attach to this form.)
 Credit Card (Complete the credit card section.)

Mail your registration to:
Division of Continuing Education
University of Colorado at Boulder
178 UCB
Boulder, CO 80309-0178

Or, if using a credit card, fax your registration to **303-492-3962**, or call **303-492-5148** to register over the phone.

Charge my: VISA MasterCard Discover University ACARD

Acct. No: _____

Expiration Date: ____/____/____

Cardholder's Name: _____
Please print.

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