

Continuing EDUCATION

UNIVERSITY OF COLORADO AT BOULDER CATALOG

Summer 2003



WELCOME

At the Division of Continuing Education we are committed to helping 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 new choices for you this summer.

Boulder Evening

Peoples of the South Pacific ANTH 3160

Weather and Atmosphere ATOC 1050

**Perspectives on Human
Communication COMM 1210**

**First-Year Writing
and Rhetoric WRTG 1150**

Personal Enrichment

**Writing the Nonfiction
Book Proposal NC W 079**

Computer Applications

**Advanced Motion Graphics
Using Flash MX CAWB 4511**

**Introduction to Hypertext
Preprocessor (PHP) CAWB 2911**

PROGRAM UPDATES

ONLINE NONCREDIT/ CERTIFICATE REGISTRATION

Using your Visa, MasterCard or Discover, you can register online for your noncredit personal enrichment, computer applications, or real estate appraisal course. Visit our web site at www.colorado.edu/conted and click on "How to Register" for more information.

Scholarships are available to eligible students. Check out www.colorado.edu/conted/scholar.htm for more information.



CONTINUING
EDUCATION
CENTER

Contents

3

Boulder Evening Credit Classes

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

8

PLUS and CU Connect Registration Information

Instructions for eligible Boulder Evening and Independent Learning students to register using the Web or the telephone.

11

Independent Learning Programs

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

17

Additional Credit Programs

ACCESS (Available Credit Courses for Eligible Special Students) Program

High School Concurrent Program

CU-Boulder Summer Session

Degree Completion Program

CATECS (Center for Advanced Training in Engineering and Computer Science)

19

Personal Enrichment Program

A lively, relevant approach to the arts, languages, theatre, and writing.

25

Computer Applications Program

General Computer Classes: Windows, Microsoft Office, web graphics, network administration, programming and web design

Certificate Programs: Graphics, Network Administration, Programming, Web Site Design

Workshops: Access, Photoshop

39

International English Center

40

Center for Business Education

41

Special Programs

Embedded Systems Certificate

Software Engineering Certificate

43

Campus Map

44

Registration Information

45

Credit Registration Form


47

Noncredit/Certificate Registration Form

INSIDE BACK COVER

Index

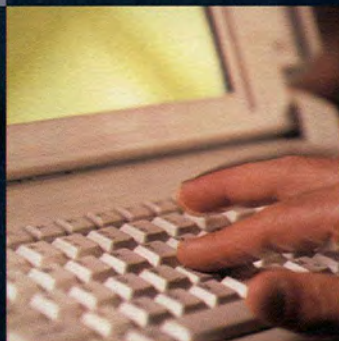
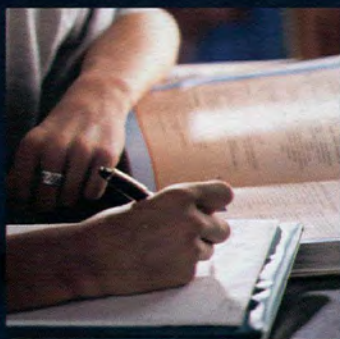
CATALOG PRODUCTION

 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.

Because biomedical ethics is an evolving topic, there aren't many 'off-the-rack' arguments – students have to think. It's exciting.

Donald Wilkerson
TOPICS IN WRITING

LOOKING FOR A STIMULATING CLASS THAT WILL ENGAGE YOUR BRAIN IN NEW WAYS? DON WILKERSON'S TOPICS IN WRITING: ISSUES IN BIOMEDICAL ETHICS MAY BE JUST THE TICKET. WILKERSON SAYS THAT HIS CLASS IS NOT SO MUCH ABOUT ETHICS AS IT IS ABOUT "LEARNING TO MAKE AN ARGUMENT TO ADD SOMETHING TO A GROUP OR COMMUNITY." PLUS, WITH A HOT TOPIC LIKE BIOMEDICAL ETHICS, DISCUSSIONS ARE GUARANTEED TO BE LIVELY. WHY NOT TRY IT THIS SUMMER?



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 the PLUS and CU Connect Registration Instructions, page 8.

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 \$136 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 \$326 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 student pays for 6 or more credit hours 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.

Scholarships: Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. May 12 is the summer application deadline. Scholarship awards range up to \$365. 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 page 4.

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

Special Faculty-Staff Registration: Faculty and staff of the University of Colorado at Boulder may enroll in courses at half the regular tuition. Please bring proof of permanent appointment (showing at least half-time employment) to registration.

SURVIVAL TIP:

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



Boulder Evening Registration and Academic Calendar

SUMMER 2003

May 5

Boulder Evening registration through the Web or CU Connect 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.-4:30 p.m. Monday through Friday.

May 12

Deadline to apply for Nontraditional Student Scholarship, see page 3 for details.

May 26

University Closed.

June 2

Boulder Evening classes begin.

June 6

4:30 p.m. deadline to register, request pass/fail status, or drop with a 100% refund.

Withdrawals after this date will appear as a "W" on student's academic record and must be received in writing.

June 9

Instructor's signature required to drop classes.

June 13

4:30 p.m. deadline to drop with a 60% refund*.

June 20

4:30 p.m. deadline to drop with a 40% refund*.

June 23

Petition required to drop classes.

Petition Forms available at Continuing Education.

July 2

Last day of classes and final exams for Term 1W (5-week) classes.

July 4

University Closed.

July 16-17

Last day of classes and final exams for Term 3W (7-week) classes.

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

Classes by Start Date

TERM 1W (FIVE - WEEK) CLASSES

Monday, Tuesday, and Wednesday Courses, Begin June 2 and End July 2

Course	Sec	Call #	Times	Course Title	Core	
✓ ATOC 1050-3	16	100	60021	6-9 p.m.	Weather and the Atmosphere	natural science
HIST 2123-3	Can	100	60027	6-9 p.m.	The History of England, 1660 to Present	historical context
✓ HIST 4115-3	11	100	60028	6-9 p.m.	Natives and Newcomers: Encounters in the New World	none
PSCI 4721-3	Can	100	60250	6-9 p.m.	Rethinking American Politics	critical thinking
✓ PSCI 4734-3	10	100	60031	6-9 p.m.	Politics and Literature	critical thinking
✓ SOCY 3151-3	8	100	60034	5:30-8:30 p.m.	Self in Modern Society	United States context or ideals and values
✓ SPAN 2110-3	11	100	60035	6-9 p.m.	Second-Year Spanish 1	foreign language

TERM 3W (SEVEN - WEEK) CLASSES

Monday and Wednesday Courses, Begin June 2 and End July 16

✓ COMM 1210-3	30	300	60022	6-9 p.m.	Perspectives on Human Communication	contemporary societies
✓ ECON 2020-4	15	300	60023	6-9 p.m.	Principles of Macroeconomics	contemporary societies
✓ ENGL 1600-3	14	300	60199	6-9 p.m.	Masterpieces of American Literature	literature and the arts
✓ ENGL 3060-3	25	300	60025	5:30-8:30 p.m.	Modern and Contemporary Literature	literature and the arts
WRTG 1150-3	8	300	60036	6-9 p.m.	First-Year Writing and Rhetoric	written communication

Tuesday and Thursday Courses, Begin June 3 and End July 17

✓ ANTH 3160-3	8	300	60020	6-9 p.m.	Peoples of the South Pacific	none
✓ ENGL 3051-3	12	300	60024	5:30-8:30 p.m.	Intermediate Fiction Workshop	none
✓ FINE 1400-3	14	300	60026	6-9 p.m.	History of World Art 2	literature and the arts
✓ JOUR 4874-3	10	300	60029	6:30-9:30 p.m.	Special Topics: Scriptwriting for the Entertainment Industry	none
✓ KAPH 3420-3	27	300	60030	6-9 p.m.	Nutrition, Health and Performance	natural science
✓ PSYC 4456-3	25	300	60032	6-9 p.m.	Psychology of Personality	none
✓ QRMS 1010-3	23	300	60033	6-9 p.m.	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills
WRTG 3020-3	14	300	60037	5:30-8:30 p.m.	Topics in Writing: Issues in Biomedical Ethics	written communication

ANTHROPOLOGY**Peoples of the South Pacific
ANTH 3160**

3 SEMESTER HOURS

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

Mark Calamia, MA

Term 3W - Section 300: Call No. 60020
Tuesdays and Thursdays, 6-9 p.m. Hale 240.
\$408 (resident).

**ATMOSPHERIC AND
OCEANIC SCIENCES****Weather and the Atmosphere
ATOC 1050**

3 SEMESTER HOURS

Introduces principles of modern meteorology for nonscience majors, with emphasis on scientific and human issues associated with severe weather events. Includes description, methods of prediction, and impacts of blizzards, hurricanes, thunderstorms, tornadoes, lightning, floods, and firestorms. Approved for arts and sciences core curriculum: natural science.

Betsy Forrest, MA

Term 1W - Section 100: Call No. 60254
Mondays, Tuesdays, and Wednesdays, 6-9 p.m.
Clare Small 104. \$429 (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 MAPS requirement for social science: general. Approved for arts and sciences core curriculum: contemporary societies.

Joel Guenther, MA

Term 3W - Section 300: Call No. 60022
Mondays and Wednesdays, 6-9 p.m.
Humanities 125. \$408 (resident).

ECONOMICS**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. This section requires World Wide Web access for the online recitation. May be taken before ECON 2010. Students may not receive credit for ECON 2020 and 2021 or 1000 or 1001. Approved for arts and sciences core curriculum: contemporary societies.

Rachael Small, MBA

Term 3W - Section 300: Call No. 60023
Mondays and Wednesdays, 6-9 p.m.
Economics 2. \$544 (resident).

ENGLISH**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.

James McVey, PhD

Term 3W - Section 300: Call No. 60199
Mondays and Wednesdays, 6-9 p.m.
Education 155. \$408 (resident).

**Intermediate Fiction Workshop
ENGL 3051**

3 SEMESTER HOURS

Intermediate course in fiction writing. May be taken up to three times for credit.

George Moore, PhD

Term 3W - Section 300: Call No. 60024
Tuesdays and Thursdays, 5:30-8:30 p.m.
Hellems 259. \$408 (resident).



Dave Young, a freshman at CU and student in Rachael Small's Macroeconomics course, is not a morning person. "I'm not as focused in the morning." So Continuing Education classes fit his schedule to a tee. "I like the evening classes because I'd rather take class one day a week for three hours instead of three days for one hour." Plus, the evening classes typically have a wider range of people, making them that much more interesting.

**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

Term 3W - Section 300: Call No. 60025
Mondays and Wednesdays, 5:30-8:30 p.m.
Hellems 229. \$408 (resident).



Catherine Barnes, who is taking Rachael Small's Introduction to Macroeconomics in preparation for grad school, is delighted that she can fulfill a requirement and also learn about the real world. She has discovered that econ "helps you make real-life decisions."

A veteran of CU's Continuing Education classes, Catherine has found the program to be a "viable, affordable solution for working people who want to continue their education."

FINE ARTS

History of World Art 2 FINE 1400

3 SEMESTER HOURS

Surveys major art styles from 1600 to the present including European, Asian, Islamic, the American, and tribal arts. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Students may not receive credit for both FINE 1400 and FINE 1209.

Approved for arts and sciences core curriculum: literature and the arts.

Christine Dupont-Patz, MA

Term 3W - Section 300: Call No. 60026
Tuesdays and Thursdays, 6-9 p.m. Hale 230.
\$453 (resident).

HISTORY

The History of England, 1660 to Present HIST 2123

3 SEMESTER HOURS

Deals with the period from the seventeenth century to the present. Political, economic, social, and imperial developments that contributed to creation of the modern industrial and democratic state are the major issues covered. Approved for arts and sciences core curriculum: historical context.

Richard Smith, PhD

Term 1W - Section 100: Call No. 60027
Mondays, Tuesdays, and Wednesdays, 6-9 p.m.
Hellems 267. \$408 (resident).

Natives and Newcomers: Encounters in the New World HIST 4115

3 SEMESTER HOURS

Focuses on the first generations of interaction between natives and newcomers in the northern and middle regions of the Americas during the 16th and 17th centuries. Areas include New England, the Chesapeake, Canada, Spanish borderlands, and the West Indies. Prereq., junior/senior standing or successful completion of one lower-division history course.

Merle Funk, PhD

Term 1W - Section 100: Call No. 60028
Mondays, Tuesdays, and Wednesdays, 6-9 p.m.
Hellems 241. \$408 (resident).

JOURNALISM

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

Term 3W - Section 300: Call No. 60029
Tuesdays and Thursdays, 6:30-9:30 p.m.
Humanities 1B90. \$408 (resident).

KINESIOLOGY AND APPLIED 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

Term 3W - Section 300: Call No. 60030
Tuesdays and Thursdays, 6-9 p.m. Clare
Small 207. \$408 (resident).

POLITICAL SCIENCE

Rethinking American Politics PSCI 4721

3 SEMESTER HOURS

Examines the political history and development of the United States of America. Looks at the particular policy choices we have made and examines the future political agenda. Prereq., junior/senior standing or equivalent and PSCI 1101 recommended. Approved for arts and sciences core curriculum: critical thinking.

Vincent McGuire, PhD

Term 1W - Section 100: Call No. 60250
Mondays, Tuesdays, and Wednesdays, 6-9 p.m.
Duane Physics G131. \$408 (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/senior standing or equivalent. Approved for arts and sciences core curriculum: critical thinking.

Loren Weinberg, PhD

Term 1W - Section 100: Call No. 60031
Mondays, Tuesdays, and Wednesdays, 6-9 p.m.
Ketchum 118. \$408 (resident).

PSYCHOLOGY**Psychology of Personality**
PSYC 4456

3 SEMESTER HOURS

Psychological study of structure, organization, and development of the person as a whole. Analysis of major theories, methods, and research, including topics such as emotion, motivation, temperament, inner experience, identity and the self, personality change, and the influence of sociocultural context. Prereq., junior/senior standing or equivalent.

Patrick Vann, PhD

Term 3W - Section 300: Call No. 60032
Tuesdays and Thursdays, 6-9 p.m.
Muenzinger E131. \$408 (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.

Monica Todd, MA

Term 3W - Section 300: Call No. 60033
Tuesdays and Thursdays, 6-9 p.m.
Engineering Center CR 110. \$408 (resident).

SOCIOLOGY**Self in Modern Society**
SOCY 3151

3 SEMESTER HOURS

Using a variety of eastern and western perspectives, 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. Approved for arts and sciences core curriculum: United States context or ideals and values.

Brian Klocke, MA

Term 1W - Section 100: Call No. 60034
Mondays, Tuesdays, and Wednesdays,
5:30-8:30 p.m. Clare Small 208. \$408
(resident).

SPANISH**Second-Year Spanish I**
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

Term 1W - Section 100: Call No. 60035
Mondays, Tuesdays, and Wednesdays, 6-9 p.m.
McKenna 112. \$428 (resident).

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. Meets MAPS requirement for English. Approved for arts and sciences core curriculum: written communication.

Sally Green, MA

Term 3W - Section 300: Call No. 60036
Mondays and Wednesdays, 6-9 p.m.
Education 134. \$408 (resident).



Rachael Small's Macroeconomics class has a fan in Judy Cole. "I love the class. The teacher takes complicated subject matter and explains it well by relating it to 'real' things in life." Judy is in the process of taking prerequisite courses for a graduate program and, like many future grad students, has found the Continuing Education program to be a convenient and comprehensive resource.

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.

Issues in Biomedical Ethics*Donald Wilkerson, MA*

Term 3W - Section 300: Call No. 60037
Tuesdays and Thursdays, 5:30-8:30 p.m.
Humanities 160. \$408 (resident).

PLUS and CU Connect Registration

In addition to registering by mail, fax (303-492-3962), or in person (1505 University Avenue), Boulder Evening and Independent Learning students are eligible to register using PLUS (web registration) or CU Connect (the telephone registration system). To be eligible to use either PLUS or CU Connect, you must be activated for Continuing Education for the summer and have no academic or financial stop which could prevent you from registering. To be activated for Continuing Education for summer, return the credit registration form on page 45. You will be sent an Invitation to Register through the mail verifying your eligibility along with your personal identification number (PIN). Please remember to keep your PIN confidential. Use of PLUS or CU Connect obligates you to pay any tuition charges as a result of adding any course.

PLUS and CU Connect are normally available Monday through Friday 7 a.m. to midnight and Sundays from 11 a.m. to midnight. They are **not** available on Saturdays or on May 26 or July 4.

Register Using PLUS

Eligible Boulder Evening and Independent Learning students can register on the Web by accessing the CU home page at www.colorado.edu and choosing Resources for Students and then Personal Lookup Services (PLUS) or going directly to PLUS at www.colorado.edu/plus and selecting the "Registration Log-On" button. You will then need to enter your student ID/social security number and personal identification number (PIN) and hit submit. At the registration menu, choose the "Register" tab at the bottom of the page. Then choose Continuing Education Summer 2003 and follow the instructions on the web page from there to add, drop or waitlist for a course, 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. When you're finished, be sure to exit web registration.

You can also conduct online course searches using PLUS. At the PLUS home page choose "Planning Tools" and then Schedule Planner. If you have logged on to PLUS using your student number and PIN, choose the "Course Status" tab at the bottom of the page. Schedule Planner and Course Status allow you to search by subject, level, course number, core requirements, and meeting time. Course Status is updated on a real time basis; Schedule Planner is updated nightly.

Register Using CU Connect

Call CU Connect, 303-938-8110, from any touch-tone phone to register. Use the confirmed registration function codes listed below.

the Boulder-campus code 1

the Continuing Education code 1

the registration application code 1

the term code 034

your University student number _____ - _____ - _____

your personal identification number (PIN) _____

Fill out the information below completely. When prompted, enter the courses you've listed below. Press the star (*) or pound (#) keys as indicated. Whenever you press the # key, wait for the computer voice to respond before proceeding with the next entry. For more time between entries, press #.

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

Other CU Connect Functions

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 position on a **wait list**, 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 the student billing application for your **account balance and/or credit card payment option** or press 2 to **end** the call.

Verifying and Adjusting Your Schedule

Once you have registered, it is important that you verify your schedule either through PLUS or CU Connect. For Boulder Evening, you can adjust your schedule through the dates listed on the calendar on page 4.

Wait Lists

Placing your name on a wait list does not guarantee that you will be enrolled in that course. Enrollment is determined by the total number of spaces and the demand for each particular course. Spaces may or may not become available at a future time. Boulder Evening and Independent Learning waitlist positions are on a first-come, first-served basis.

You can check your position on any course wait list either on the Web at www.colorado.edu/plus or by calling CU Connect and pressing 5# (list schedule function). **If you choose to waitlist for a Boulder Evening or Independent Learning course and a space becomes available, you will automatically be enrolled in the course and additional tuition and fees assessed. We, therefore, encourage you to check your position on a wait list often to avoid being charged additional tuition and fees and receiving an "F" for the course.**

Account Balances

The amount of tuition you owe is available both through PLUS and CU Connect. Credit card payments, using VISA, MasterCard or Discover, can be made on PLUS and CU Connect. 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 our offices at 1505 University Avenue.

Continuing Education offers an additional payment option that enables you to submit payments online from your checking and/or savings account, using an electronic interface with your bank. **The Payment Only Option** is a safe secure method for you to pay your bill in a timely manner. You can obtain more information about the Payment Only Option on the Web at www.colorado.edu/conted/paymentonly.htm.

Course Restrictions

Some Boulder Evening and Independent Learning 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.

Grades

To access your grades through the Web, log on to www.colorado.edu/plus, choose "Log-On", then enter your student ID number and PIN, and choose the grades option. To access your grades through CU Connect call 303-938-8110 from any touch-tone phone, press 1 for the Boulder campus, 1 for Continuing Education, 2 for the grade code function and enter the term code (034 for summer) 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).

Additional Web Functions

With your student identification number and PIN, in addition to registering, you are also able to find the following:

- degree program information (primary and secondary college, major, residency, gpa, and class standing)
- registration status (advising requirements and academic or financial stops)
- class schedule for all current and past terms enrolled and all future terms for which you have registered
- required textbooks
- unofficial transcripts
- request official transcripts
- current semester billing and financial aid information
- address changes
- PIN changes
- degree audit (for certain colleges)

Problems? Questions?

If you have any type of registration stop, you will not be allowed to enroll via PLUS or CU Connect. 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 by signing on with your ID (student identification number) and PIN (Personal Identification Number), hit submit 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 7:30 a.m. and 4:30 p.m. Monday-Friday. If you need help after hours, a recorded message with helpful hints is available by calling 303-492-5145 and choose option "5" for CU Connect information.

There are so many myths about nutrition. I want to give my students the basic truths.

Mary Beth Lynch
NUTRITION, HEALTH
& PERFORMANCE

Nutrition Facts	
Serving Size: 30g (about 14 chips) About 15 Servings Per Container	
Amount Per Serving	
Calories 140	Calories from Fat 50
	% Daily Value*
Total Fat 6g	9%
Saturated Fat 0g	0%
Cholesterol 0mg	0%
Sodium 135 mg	27%
Total Carbohydrate 21g	42%



WE ALL KNOW WE SHOULD EAT MORE VEGGIES; IN MARY BETH LYNCH'S NUTRITION FOR HEALTH AND PERFORMANCE COURSE YOU'LL LEARN A LOT MORE ABOUT EATING RIGHT. YOU'LL LEARN THE HEALTHY WAY TO LOSE WEIGHT AND WHAT TO EAT TO PREVENT DISEASE. AND BECAUSE YOU CAN TAKE THE COURSE ONLINE, YOU CAN ACCESS ALL THIS INFORMATION AT YOUR OWN PACE, IN YOUR OWN HOME, WHENEVER YOU LIKE. SAYS MARY BETH, "IT'S A WONDERFUL WAY FOR PEOPLE TO TAKE CLASSES WHEN THEIR JOB OR FAMILY RESPONSIBILITIES MAKE IT IMPOSSIBLE FOR THEM TO COME TO A CLASSROOM."



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.

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
ANTHROPOLOGY							
ANTH	1030	650	Principles of Anthropology 1	Kathy Greene, MA	3	60038	\$390
ANTH	1040	650	Principles of Anthropology 2	Kathy Greene, MA	3	60040	\$390
ANTH	2010	650	Introduction to Physical Anthropology 1	Kathy Greene, MA	3	60042	\$390
ANTH	2020	650	Introduction to Physical Anthropology 2	Kathy Greene, MA	3	60044	\$390
ANTH	2070	640	Bones, Bodies, and Disease	Dawn Mulhern, PhD	3	60046	\$390
ANTH	2200	650	Introduction to Archaeology	Kathy Greene, MA	3	60048	\$390
ASTROPHYSICAL AND PLANETARY SCIENCES							
ASTR	1110	640	General Astronomy: The Solar System	Kelly Cline, MA	3	60050	\$390
COMMUNICATION							
COMM	2400	640	Communication and Society	Robert Agne, MA	3	60052	\$390
COMM	2400	641	Communication and Society	Julien Mirivel, MA	3	60136	\$390
COMM	2400	650	Communication and Society	Robert Agne, MA	3	60248	\$390
COMM	4600	640	Senior Seminar: Organizational Communication	Brenda J. Allen, PhD	3	60054	\$390
COMPUTER SCIENCE							
CSCI	2830	640	Special Topics in Computer Science	James P. Gately, MT	1	60056	\$130
CSCI	2830	650	Special Topics in Computer Science	James P. Gately, MT	1	60058	\$130

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	60060	\$520
ECON	2010	650	Principles of Microeconomics	Laura Argys, PhD	4	60062	\$520
ECON	2020	640	Principles of Macroeconomics	Jay Kaplan, PhD	4	60064	\$520
ECON	2020	650	Principles of Macroeconomics	Laura Argys, PhD	4	60066	\$520
ECON	3403	640	International Economics and Policy	Jay Kaplan, PhD	3	60068	\$390
ECON	4111	640	Money and Banking Systems	Jay Kaplan, PhD	3	60070	\$390
EDUCATION							
EDUC	4161	640	Children's Literature	Phyllis Kennemer, EdD	3	60072	\$390
EDUC	4161	650	Children's Literature	Phyllis Kennemer, EdD	3	60074	\$390
EDUC	4322	650	Teaching Literature in Middle and Secondary Schools	Caroline McKinney, MA	3	60076	\$390
ENGLISH							
ENGL	1191	650	Introduction to Creative Writing	Michael Arvey, MA	3	60078	\$390
ENGL	1260	650	Introduction to Women's Literature	D'Ann Sanko, MA	3	60080	\$390
ENGL	1600	650	Masterpieces of American Literature	D'Ann Sanko, MA	3	60082	\$390
ENGL	2000	584	Literary Analysis	James McVey, PhD	3	60255	\$510
ENGL	2010	584	Introduction to Literary Theory	Christine MacDonald, PhD	3	60247	\$510
ENGL	2021	650	Introductory Poetry Workshop	Michael Arvey, MA	3	60084	\$390
ENGL	3000	650	Shakespeare for Nonmajors	Rhonda Sanford, PhD	3	60086	\$390
ENGL	3051	640	Intermediate Fiction Workshop	Todd Pinney, PhD	3	60088	\$390
ENGL	3051	650	Intermediate Fiction Workshop	Todd Pinney, PhD	3	60090	\$390
ENGL	3060	640	Modern and Contemporary Literature	Todd Pinney, PhD	3	60092	\$390
ENGL	3060	650	Modern and Contemporary Literature	Todd Pinney, PhD	3	60094	\$390
ENGL	3081	650	Intermediate Nonfiction Workshop	Todd Pinney, PhD	3	60096	\$390
ENGL	3553	650	Chaucer: The Canterbury Tales	Zelda Rouillard, PhD	3	60098	\$390
ENGL	3563	650	Shakespeare 1	Rhonda Sanford, PhD	3	60100	\$390
ENGL	3573	650	Shakespeare 2	Rhonda Sanford, PhD	3	60102	\$390
ENGL	3655	640	American Literature to 1860	Todd Pinney, PhD	3	60104	\$390
ENGL	3655	650	American Literature to 1860	Todd Pinney, PhD	3	60106	\$390
ENGL	3665	640	American Literature after 1860	Todd Pinney, PhD	3	60108	\$390
ENGL	3665	650	American Literature after 1860	Todd Pinney, PhD	3	60110	\$390
ENGL	4100	650	The English Language	Zelda Rouillard, PhD	3	60112	\$390
FINE ARTS							
FINE	1012	650	Drawing 1	Patricia Cheyne, MFA	3	60114	\$390
FINE	3637	650	Art for the Elementary Teacher	Patricia Cheyne, MFA	3	60116	\$390
GEOGRAPHY							
GEOG	1001	650	Environmental Systems 1 - Climate and Vegetation	Dixon Smith, PhD	4	60118	\$520
GEOG	1011	650	Environmental Systems 2 - Landscapes and Water	Dixon Smith, PhD	4	60120	\$520
GEOG	1992	640	Human Geographies	Leigh Miller, MA	3	60122	\$390

* 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
GEOLOGY							
GEOL	1010	640	Introduction to Geology 1	Emily CoBabe, PhD	3	60124	\$390
GEOL	1010	650	Introduction to Geology 1	Emily CoBabe, PhD	3	60126	\$390
GEOL	1020	650	Introduction to Geology 2	Hilde Schwartz, PhD	3	60128	\$390
HISTORY							
HIST	1010	640	Western Civilization 1: From Antiquity to the 16th Century	Jeanne Christensen, MA	3	60130	\$390
HIST	1010	650	Western Civilization 1: From Antiquity to the 16th Century	Jeanne Christensen, MA	3	60132	\$390
HIST	1015	650	History of the United States to 1865	James Fell, PhD	3	60134	\$390
HIST	1020	640	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, MA	3	60137	\$390
HIST	1020	650	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, MA	3	60139	\$390
HIST	1025	650	History of the United States since 1865	James Fell, PhD	3	60141	\$390
HIST	2117	640	History of Colorado	James Fell, PhD	3	60143	\$390
HIST	2117	650	History of Colorado	James Fell, PhD	3	60145	\$390
HIST	4217	650	The American West in the 19th Century	Anthony McGinnis, PhD	3	60147	\$390
HIST	4227	650	The American West in the 20th Century	Anthony McGinnis, PhD	3	60149	\$390
HIST	4733	640	The Russian Revolution and the Soviet Regime	John Hatch, PhD	3	60151	\$390
JOURNALISM							
JOUR	1001	640	Contemporary Mass Media	Rebecca Self Hill, PhD	3	60153	\$390
JOUR	3771	640	Mass Communication History	Cinda Gillilan, PhD	3	60155	\$390
KINESIOLOGY AND APPLIED PHYSIOLOGY							
KAPH	3420	640	Nutrition, Health, and Performance	Mary Beth Lynch, PhD	3	60157	\$390
KAPH	3420	650	Nutrition, Health, and Performance	Frank Konishi, PhD	3	60159	\$390
MATHEMATICS							
MATH	1011	650	Fundamentals and Techniques of College Algebra	Brian Clark, MA	3	60161	\$390
MATH	1021	650	Numerical and Analytical College Trigonometry	Kristen Marshall, PhD	2	60163	\$260
MATH	1071	650	Finite Mathematics for Social Science and Business	Kristen Marshall, PhD	3	60166	\$390
MATH	1081	650	Calculus for Social Science and Business	Kristen Marshall, PhD	3	60167	\$390
MATH	1300	650	Analytic Geometry and Calculus 1	Brian Clark, MA	5	60169	\$650
MATH	2300	650	Analytic Geometry and Calculus 2	Kristen Marshall, PhD	5	60171	\$650
MUSIC							
EMUS	1081	650	Basic Music Theory	Debbie Corisis, MA	3	60173	\$390
PHILOSOPHY							
PHIL	1000	650	Introduction to Philosophy	Barbara Morrison, PhD	3	60175	\$390
PHIL	1100	650	Ethics	Barbara Morrison, PhD	3	60177	\$390
PHIL	1600	650	Philosophy and Religion	Barbara Morrison, PhD	3	60179	\$390
PHIL	4040	650	Studies in 20th Century Philosophy	Barbara Morrison, PhD	3	60181	\$390

* 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
POLITICAL SCIENCE							
PSCI	1101	650	The American Political System	Jeffrey Ian Ross, PhD	3	60183	\$390
PSCI	2223	650	Introduction to International Relations	Jeffrey Ian Ross, PhD	3	60185	\$390
PSCI	3163	640	American Foreign Policy	James Ross, PhD	3	60263	\$390
PSYCHOLOGY							
PSYC	1001	650	General Psychology	Tim Bockes, PhD	3	60187	\$390
PSYC	2012	640	Biological Psychology 1	Howard Bashinski, PhD	3	60189	\$390
PSYC	2012	650	Biological Psychology 1	Howard Bashinski, PhD	3	60191	\$390
PSYC	2022	650	Biological Psychology 2	Howard Bashinski, PhD	3	60193	\$390
PSYC	2303	640	Psychology of Adjustment	ShawnaLee Washam, PhD	3	60195	\$390
PSYC	2303	650	Psychology of Adjustment	ShawnaLee Washam, PhD	3	60197	\$390
PSYC	2606	640	Social Psychology	Brett King, PhD	3	60200	\$390
PSYC	2606	650	Social Psychology	Brett King, PhD	3	60202	\$390
PSYC	3101	640	Statistics and Research Methods in Psychology	Howard Bashinski, PhD	4	60204	\$520
PSYC	3101	650	Statistics and Research Methods in Psychology	Howard Bashinski, PhD	4	60206	\$520
PSYC	4303	640	Abnormal Psychology	Brett King, PhD	3	60208	\$390
PSYC	4303	650	Abnormal Psychology	Brett King, PhD	3	60210	\$390
PSYC	4456	640	Psychology of Personality	Tim Bockes, PhD	3	60212	\$390
PSYC	4456	650	Psychology of Personality	Tim Bockes, PhD	3	60214	\$390
PSYC	4511	650	History of Psychology	Wayne Viney, PhD	3	60216	\$390
PSYC	4684	640	Developmental Psychology	Johnna Shapiro, PhD	3	60218	\$390
PSYC	4684	650	Developmental Psychology	Johnna Shapiro, PhD	3	60220	\$390
SOCIOLOGY							
SOCY	1001	640	Introduction to Sociology	Steve Wilson, PhD	3	60222	\$390
SOCY	1001	650	Introduction to Sociology	Steve Wilson, PhD	3	60224	\$390
SOCY	1005	650	Social Conflict and Social Values	Roxanne Rhodes, MA	3	60226	\$390
SOCY	1016	650	Sex, Gender, and Society 1	Kristine DeWelde, PhD	3	60228	\$390
SOCY	4014	640	Criminology	Steve Wilson, PhD	3	60230	\$390
SOCY	4014	650	Criminology	Steve Wilson, PhD	3	60232	\$390
SOCY	4025	640	Conflict Management in Social Systems	Guy Burgess, PhD	3	60234	\$390
SOCY	4086	641	Family and Society	Jan Burhmann, PhD	3	60236	\$390
WRITING AND RHETORIC							
WRTG	3020	584	Topics in Writing: American Culture	Anne Bliss, PhD	3	60242	\$510
WRTG	3020	585	Topics in Writing: Issues in Biomedical Ethics	Donald Wilkerson, MA	3	60243	\$510
WRTG	3020	586	Topics in Writing: Artificial Intelligence and Sci-Fi	Bruce Leland, PhD	3	60244	\$510
WRTG	3020	587	Topics in Writing: American Culture	Rosalyn Zigmond, MA	3	60245	\$510
WRTG	3020	588	Topics in Writing: American Culture	Rosalyn Zigmond, MA	3	60246	\$510
WRTG	3040	584	Writing on Business and Society	Amy Goodloe, MA	3	60240	\$510
WRTG	3040	585	Writing on Business and Society	Amy Goodloe, MA	3	60241	\$510
WRTG	3040	586	Writing on Business and Society	Amy Goodloe, MA	3	60238	\$510
WRTG	3040	587	Writing on Business and Society	Amy Goodloe, MA	3	60239	\$510

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.

*** SECTION LEGEND**

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

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. Students may not receive credit for both ENGL 1010 and 2000.

Section 584: Call No. 60255

Dates: July 8-August 8

Instructor: James McVey, PhD

Tuition: \$510.

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.

Section 584: Call No. 60247

Dates: June 23-August 8

Instructor: Christine MacDonald, PhD

Tuition: \$510.

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. Restricted to arts and sciences juniors and seniors. Same as NRLN 3020. Approved for arts and sciences core curriculum: written communication.

Issues in Biomedical Ethics

Section 585: Call No. 60243

Dates: June 2-July 25

Instructor: Donald Wilkerson, MA

Tuition: \$510.

Artificial Intelligence and Sci-Fi

Section 586: Call No. 60244

Dates: June 2-August 8

Instructor: Bruce Leland, PhD

Tuition: \$510.

American Culture

Section 587: Call No. 60245

Section 588: Call No. 60246

Dates: June 2-August 8

Instructor: Rosalyn Zigmond, MA

Tuition: \$510.

American Culture

Section 584: Call No. 60242

Dates: July 8-August 8

Instructor: Anne Bliss, PhD

Tuition: \$510.

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. Approved for arts and sciences core curriculum: written communication.

Section 584: Call No. 60240

Section 585: Call No. 60241

Dates: June 2-July 25

Instructor: Amy Goodloe, MA

Tuition: \$510.

Section 586: Call No. 60238

Section 587: Call No. 60239

Dates: July 8-August 8

Instructor: Amy Goodloe, MA

Tuition: \$510.

High School Independent Learning

IN COOPERATION WITH YOUR HIGH SCHOOL, we offer high school correspondence courses. You can take these courses with the approval of your school. Your high school grants credit when you successfully complete courses. And it's up to you to decide when and where to learn. Self-paced courses put you in control. Additional information and course descriptions are available on the Web at www.colorado.edu/cewww.

All courses are for 1 semester (half-unit) of high school credit. Registration for credit requires the approval and cooperation of the student's high school. Tuition is \$90 per course. Syllabus and texts are extra.

High school students may also register for CU-Boulder university courses as concurrent students, earning credit at the university and at their high school.

BUSINESS EDUCATION

HBUS 1755 Office Systems
 HBUS 1955 Consumer Education and Economics
 HBUS 2355 Beginning Accounting I
 HBUS 2455 Beginning Accounting II
 HBUS 2756 Business English and Communication

ENGLISH

HENG 0155 Basic Grammar 1
 HENG 0255 Intermediate Grammar
 HENG 1701 The Short Story
 HENG 2102 The American Short Story
 HENG 2302 Basic Expository Writing
 HENG 3155 Ninth Grade English 1
 HENG 3255 Ninth Grade English 2
 HENG 3555 Tenth Grade English 1
 HENG 3655 Tenth Grade English 2
 HENG 3955 Eleventh Grade English 1
 HENG 4055 Eleventh Grade English 2
 HENG 4356 Twelfth Grade English 1
 HENG 4456 Twelfth Grade English 2

HOME ECONOMICS

HFCS 1155 Personal Adjustment and Family Living

MATHEMATICS

HMTH 0155 Basic Mathematics 1
 HMTH 0255 Basic Mathematics 2
 HMTH 0555 General Mathematics 1
 HMTH 0655 General Mathematics 2
 HMTH 0956 Business and Consumer Mathematics 1
 HMTH 1056 Business and Consumer Mathematics 2
 HMTH 3157 Beginning Algebra 1
 HMTH 3258 Beginning Algebra 2
 HMTH 3555 Geometry 1
 HMTH 3655 Geometry 2
 HMTH 3956 Advanced Algebra 1
 HMTH 4056 Advanced Algebra 2
 HMTH 4356 Precalculus 1: Analytical Geometry and Algebra
 HMTH 4456 Precalculus 2: Trigonometry

SCIENCE

HSCI 0157 Health Science 1
 HSCI 0256 Health Science 2
 HSCI 2557 Biology 1
 HSCI 2656 Biology 2
 HSCI 5155 Biology 3: Advanced Biology

SOCIAL STUDIES

HSST 0156 Civics
 HSST 0355 Sociology
 HSST 0755 Psychology
 HSST 1755 Ethnic Studies and Human Relations
 HSST 2158 World Geography 1
 HSST 2258 World Geography 2
 HSST 3156 World History 1
 HSST 3256 World History 2
 HSST 3357 American History 1
 HSST 3457 American History 2
 HSST 3756 American Government: Theories, Policies, and Politics
 HSST 3856 American Government: National Level

STUDY SKILLS

HSTS 0101 Effective Methods of Study

INDEPENDENT LEARNING – IT'S UP TO YOU.



On the Web: www.colorado.edu/cewww
 303-492-5148 (toll free, 800-331-2801)

ACCESS PROGRAM

Want to take a credit course at CU-Boulder during the day? Perhaps you're interested in a particular class for personal or professional development or plan to enroll in a degree program in the future. Each Fall and Spring, the ACCESS (Available Credit Courses for Eligible Special Students) 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.

SUMMER SESSION

Are you thinking ahead to Summer 2003? 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.

Many students appreciate the opportunity to focus on math, biology, chemistry or physics during the summer. Have you always wanted to take a drawing, painting or art history class? Summer is the time. Interested in business, journalism, engineering or music classes? Enjoy Boulder in the summer and take advantage of more than 500 classes.

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 call 303-492-5148 or visit the web site at www.colorado.edu/summersession to request a Summer Session catalog.

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 from CU-Boulder.

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.

HIGH SCHOOL CONCURRENT PROGRAM

If you are a high school student interested in the challenge of university coursework, you may enroll in Summer Session 2003 or Boulder Evening 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. You may obtain more information on Boulder Evening courses in this catalog and on the Summer Session 2003 courses at www.colorado.edu/summersession.

During the fall and spring semesters, high school juniors and seniors may enroll in the ACCESS (Available Credit Courses for Eligible Special Students) Program and request reimbursement from their school district under the Postsecondary Enrollment Options. 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 High School Concurrent web site at www.colorado.edu/conted/hsconcur.htm.



CENTER FOR ADVANCED TRAINING IN ENGINEERING AND COMPUTER SCIENCE (CATECS)

CATECS offers engineering and technical professionals a convenient method to continue their education at a distance from campus:

- Graduate courses from the College of Engineering and Applied Science delivered to your worksite via live microwave TV broadcasts with two-way audio, and via videotape or the Internet
- Master's degrees are available in Aerospace Engineering, Computer Science, Electrical and Computer Engineering, Engineering Management, and Telecommunications
- Professional certificate programs are available in Engineering Management, Project Management, and Power Electronics
- Individual courses are offered in the areas of mechanical engineering and civil/environmental engineering
- Courses can be taken for professional development or toward a master's degree
- Courses given in previous semesters can also be taken for credit or noncredit and are available for rent or purchase on videotape through the CATECS Tape Library

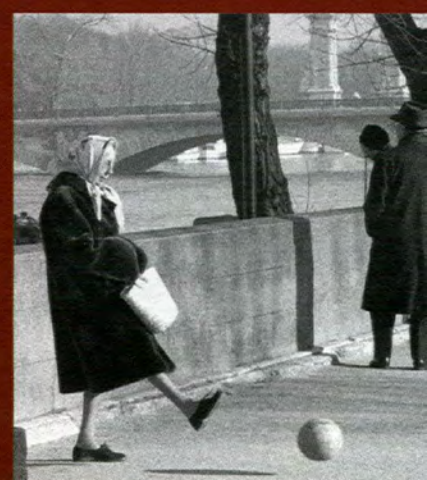
Registration for the summer 2003 semester is May 1-23. For additional information about CATECS, courses offered, and registration, contact the CATECS office at 303-492-6331 or visit the CATECS web site at www.colorado.edu/CATECS.



I try to develop student's imaginations while teaching them the art of seeing.

Don Oberbeck
PHOTOGRAPHY

ARE YOU A CLOSET SHUTTERBUG? DON OBERBECK'S CREATIVE PHOTOGRAPHY WORKSHOP IS THE PERFECT PLACE TO "DEVELOP" YOUR SKILLS. "PHOTOGRAPHY REALLY HASN'T CHANGED MUCH SINCE IT WAS INVENTED. EVEN WITH A DIGITAL CAMERA, THE IMPORTANT THING IS STILL THE 'ACTION OF LIGHT' AS ANSEL ADAMS CALLED IT." WHY NOT GET IN ON THE ACTION? LEARN TO "SEE LIKE A CAMERA," SHARPEN YOUR PERSONAL VISION AND PRINT YOUR OWN PHOTOS.



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 Hellems 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. May 12 is the summer application deadline. Scholarship awards range up to \$365.

Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/scholar.htm.

Faculty/Staff Registration

CU-Boulder faculty and staff on at least a 50% permanent appointment are eligible for a 25% discount off tuition. Proof of appointment is required to receive this discount. Call 303-492-5148 for more information.



20

FINE ARTS

- Introduction to Drawing
- Figure Drawing
- Water Media
- Introduction to Oil Painting
- Fearless Basic Photography
- Creative Photography Workshop

21

FOREIGN LANGUAGES

- French: Beginning Conversational Skills
- French: Conversational Skills for Advanced Beginners
- German: Beginning Conversational Skills
- Italian: Beginning Conversational Skills
- Italian: Conversational Skills for Advanced Beginners
- Japanese: Beginning Conversational and Written Skills
- Japanese: Conversational Skills for Advanced Beginners
- Portuguese: Beginning Conversational Skills
- Spanish: Beginning Conversational Skills
- Spanish: Conversational Skills for Advanced Beginners
- Spanish: Intermediate Conversational Skills

22

THEATRE

- Acting Basics

23

WRITING

- Creative Writing
- Creative Writing Workshop

23

GETTING PUBLISHED SERIES

- Travel Writing
- How to Write Magazine Articles...and Get Them Published
- Writing the Nonfiction Book Proposal

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 100: Tuesdays, June 3-July 8,
6:30-8:30 p.m., Fine Arts N298. 6 sessions.
\$142.

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 art history for CU-Denver and for the CU-Boulder Continuing Education credit program.

Section 100: Wednesdays, June 11-July 16,
6:30-8:30 p.m., Fine Arts N298. 6 sessions.
\$142.

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 art history for CU-Denver and for the CU-Boulder Continuing Education credit program.

Section 100: Mondays, June 9-July 14,
6:30-8:30 p.m., Fine Arts N298. 6 sessions.
\$142.

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 supply 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 100: Tuesdays, June 3-July 22,
6:30-8:30 p.m., Fine Arts N103. 8 sessions.
\$186.

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 Semingson, 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 100: Tuesdays, June 3-July 22,
6:30-8:30 p.m., Ketchum 120. 8 sessions. \$176.

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 100: Thursdays, June 26-August 7,
7:30-9:30 p.m., Economics 2. 9 sessions. \$223.

FOREIGN LANGUAGES**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.

Joanna Radin is a graduate student in French at CU-Boulder. She has experience teaching French at high school and college levels.

Section 100: Mondays, June 2-July 21,
6-8 p.m., Hellems 247. 8 sessions. \$186.

**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 Francais II*, is available at the CU bookstore. There will be in class handouts complimenting the textbook.

Joanna Radin is a graduate student in French at CU-Boulder. She has experience teaching French language at high school and college levels.

Section 100: Wednesdays, June 4-July 23,
6-8 p.m., Hellems 247. 8 sessions. \$186.

**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. No class July 3.

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

Section 100: Thursdays, June 5-July 31
(skip July 3), 6-8 p.m., Hellems 251. 8 sessions.
\$186.

(Foreign Languages continued)

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.

Molly Petras, BA in Italian from CU-Boulder, lived for one year in Italy and has traveled extensively throughout the country.

Section 101: Mondays, June 2-July 21, 6:30-8:30 p.m., Hellems 255. 8 sessions. \$186.

Section 102: Wednesdays, June 4-July 23, 6:30-8:30 p.m., Hellems 251. 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, lived for one year in Italy and has traveled extensively throughout the country.

Section 100: Tuesdays, June 3-July 22, 6:30-8:30 p.m., Hellems 251. 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.

Minori Murata is a native of Japan and teaches Japanese language courses for the CU-Boulder Department of East Asian Languages and Civilizations.

Section 100: Mondays and Wednesdays, June 2-25, 6-8 p.m., Humanities 145. 8 sessions. \$186.

Japanese: Conversational Skills for Advanced Beginners NCFL 204

You will learn basic sentence structure, 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 conversations in order to shop and dine. This course is designed for those with an introductory knowledge of Japanese.

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 100: Mondays and Wednesdays, July 7-30, 6:30-8:30 p.m., Humanities 145. 8 sessions. \$186.

Portuguese: Beginning Conversational Skills NCFL 106

Join the instructor for a dynamic approach to colloquial Portuguese for business and travel. Basic grammar points will be covered within the context of daily situations in the Brazilian culture through various in-class activities. You will learn to utilize present and past tenses. Required text, *Avenida Brasil 1*, is available at the CU Bookstore.

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

Section 100: Mondays and Wednesdays, June 9-July 2, 6-8 p.m., Hellems 237. 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.

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

Section 101: Mondays and Wednesdays, June 2-25, 7-9 p.m., Ketchum 235. 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 at CU.

Section 102: Tuesdays and Thursdays, June 3-26, 6:30-8:30 p.m., Hellems 247. 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.

Wendy Mendez, MA in Spanish from CU-Boulder, has taught high school and college Spanish. She is a native of the Dominican Republic.

Section 100: Tuesdays and Thursdays, June 3-26, 6-8 p.m., Hellems 255. 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 100: Tuesdays and Thursdays, June 3-26, 7-9 p.m., Ketchum 235. 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. She teaches beginning acting classes for the department.

Section 100: Mondays, June 9-July 28, 6:30-8:30 p.m., Economics 119. 8 sessions. \$176.

WRITING

Creative Writing

NC W 006

Have you ever wondered what you could write, if you were encouraged to follow through on your creative impulses, stimulated, conditioned, and supported by a group of peers with a similar interest? Creative Writing is a great method for exploring and expanding your creative voice. Through language games and writing exercises, we will stretch and work out your imagination. You will explore aspects of fiction and poetry such as form, plot, structure, characterization, point of view, metaphor, and theme, in addition to discussing relevant books and writing-related activities. If you have stories to tell, poems to write, or think that the time has come to use your creative abilities, this class will show you ways to go forward!

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

Section 100: Wednesdays, June 4-July 23, 6-8 p.m., Education 134. 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.

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

Section 100: Mondays, June 9-July 14, 6:30-9 p.m., Hellems 263. 6 sessions. \$165.

GETTING PUBLISHED SERIES

Do you have a great idea for a book or magazine article? Or maybe you're already writing one but you're not sure how to get it into print.

Join us this summer and learn from successful authors on how they have gotten their words in print. Hear about their successes and failures, inspirations and determination, tips and techniques. Enroll in one course and receive 25% off each additional course you enroll in.

Travel Writing

NC W 088

Whether you want to enhance your traveling experience or pay for your trip, this class will teach you how to write travel articles for magazines and newspapers. Learn about different types of travel articles, how to find the right idea, how to write a query letter to pitch your idea to publications, how to write the article's lead and conclusion and how to develop the middle of the article, as well as how to construct effective sidebars, research the article and where to get photographs (if you're not a photographer).

Su Wright, BS, is a freelance writer who has published articles in national and local magazines and newspapers. She also worked for a local magazine as copyeditor, was editor of a weekly newspaper and feature editor for a local monthly newspaper. She is a former contributing editor and writer for Foder Travel Guides and is under contract to write travel guidebooks.

Section 100: Saturday, June 21, 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 100: Mondays, June 9-30, 6:30-8:30 p.m., Hale 236. 4 sessions. \$88.



Casey Henrikson is taking Kathryn Tisdale's Beginning Conversational German class in the Personal Enrichment program for two reasons: she plans to go to Germany, and she'd like to expose her young daughter to different languages. Casey said that she likes taking classes through the Continuing Education department because she can "put as much into it as I have time for and want to. That's especially important when you have a toddler."

Writing the Nonfiction Book Proposal

NC W 079

Do you have an idea for a nonfiction book? Have you written a nonfiction book and don't know how to sell it? Writing a book proposal is the next step toward getting your nonfiction book published. In this class you will learn the components of a nonfiction book proposal. Examples and class discussion will help you structure your proposal.

Su Wright, BS, is a freelance writer who has published articles in national and local magazines and newspapers. She also worked for a local magazine as copyeditor, was editor of a weekly newspaper and feature editor for a local monthly newspaper. She is a former contributing editor and writer for Foder Travel Guides and is under contract to write travel guidebooks.

Section 100: Saturday, June 28, 9 a.m.-4 p.m., Continuing Education Center. 1 session. \$100.

COMING THIS FALL

How to Sell What You Write to a Publisher
August 23. Register August 4.

I love teaching
the HTML class.

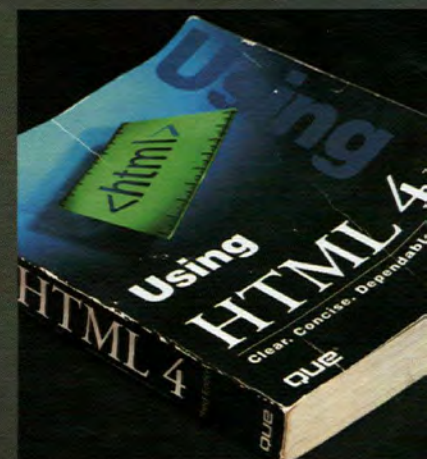
It's always
a good night.

Ginny Figlar
INTRODUCTION TO HTML

GINNY FIGLAR'S INTRODUCTION TO HTML COURSE IS THE FIRST STEP TO CREATING YOUR OWN WEB SITE. IN FACT, BY THE LAST CLASS, YOU WILL HAVE CONSTRUCTED YOUR OWN FUNCTIONING SITE. AND YOU COULDN'T ASK FOR A MORE ENTHUSIASTIC TEACHER: "I CAUGHT THE BUG IN GRAD SCHOOL AND LOVE TO SEE STUDENTS CATCH THE PASSION AS THEY REALIZE WHAT THEY CAN DO." CONTINUING EDUCATION'S HTML CLASS IS AN IDEAL PLACE TO DISCOVER YOUR POTENTIAL AND SEE YOUR CREATION BLOSSOM IN CYBERSPACE.



```
<BASE HREF="http://www.col  
<!DOCTYPE HTML PUBLIC "-//  
<HTML LANG="en">  
<HEAD>  
<Title>University of Colo  
<META HTTP-EQUIV="PICS-La  
"http://www.classify.org/  
"http://www.colorado.edu
```



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 36 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 38 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 each 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 (southwest 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 43 for more directions and 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.




CU-Boulder Faculty, Staff and Student Discounts

CU-Boulder faculty, staff and students are eligible for a 25% tuition discount. To qualify as a faculty or staff member, you must be a permanent employee with at least a 50% appointment. A copy of a current employment record is required to receive this discount. To qualify as a student, you must be enrolled for credit courses at least half-time through CU-Boulder. 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. May 12 is the application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/conted/scholar.htm.

Notes

The  symbol next to a course title signifies it is a lecture 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 other 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 28					
Windows 2000	CAAP 2131-100	06/02/03	06/04/03	9 a.m.-2:30 p.m.	2
Windows XP	CAAP 2141-100	07/07/03	07/09/03	9 a.m.-2:30 p.m.	2
Excel 2000 Level I	CAAP 2321-100	06/05/03	06/05/03	9 a.m.-4 p.m.	1
Excel 2000 Level II	CAAP 3321-100	06/19/03	06/19/03	9 a.m.-4 p.m.	1
Access 2000 Level I	CAAP 2421-100	06/16/03	06/18/03	9 a.m.-4 p.m.	2
Access 2000 Level II	CAAP 3421-100	06/23/03	06/23/03	9 a.m.-4 p.m.	1
Database Design Concepts	CAAP 4501-100	07/22/03	07/31/03	6 p.m.-9 p.m.	4
Relational Database Concepts and SQL Programming	CAAP 4502-100	06/24/03	07/29/03	6 p.m.-9 p.m.	6
Graphics...Course descriptions begin on page 29					
Computer Art	CAGR 1021-100	06/02/03	06/04/03	6 p.m.-9 p.m.	2
Introduction to Graphic Design	CAGR 1121-100	06/07/03	06/07/03	9 a.m.-5 p.m.	1
Introduction to Photoshop 7	CAGR 2111-100	06/18/03	06/25/03	9 a.m.-4 p.m.	2
Introduction to Photoshop 7	CAGR 2121-100	06/09/03	06/18/03	6 p.m.-9 p.m.	4
Photoshop 7 for the Web	CAGR 3121-100	07/08/03	07/17/03	6 p.m.-9 p.m.	4
Illustrator 10 Level I	CAGR 2211-100	07/01/03	07/10/03	6 p.m.-9 p.m.	4
Illustrator 10 Level II	CAGR 3221-100	07/19/03	07/26/03	9 a.m.-4 p.m.	2
Multimedia Solutions	CAGR 3421-100	07/07/03	07/28/03	6 p.m.-9 p.m.	4
Networking...Course descriptions begin on page 30					
Introduction to Networks	CANW 1001-100	06/04/03	06/25/03	6 p.m.-9 p.m.	4
Computer Systems Overview and Architecture	CANW 3103-100	06/03/03	06/12/03	6 p.m.-9 p.m.	4
Operating Systems	CANW 4102-100	06/30/03	07/16/03	6 p.m.-9 p.m.	6
Network Administration	CANW 5101-100	07/21/03	07/30/03	6 p.m.-9 p.m.	4
Local and Wide Area Networking Topics	CANW 5402-100	07/21/03	07/31/03	6 p.m.-9 p.m.	5
UNIX Survival Skills	CANW 1301-100	06/02/03	06/18/03	6 p.m.-9 p.m.	5
Security Essentials and Network Design	CANW 4401-100	07/01/03	07/17/03	6 p.m.-9 p.m.	6

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Programming...Course descriptions begin on page 31					
Introduction to Programming I	CAPR 1001-100	06/04/03	06/14/03	6 p.m.-9 p.m.	6
Introduction to Programming II	CAPR 2101-100	06/25/03	07/12/03	6 p.m.-9 p.m.	6
Introduction to Application Programming	CAPR 2201-100	06/02/03	06/26/03	6 p.m.-9 p.m.	8
Intermediate Application Programming	CAPR 3201-100	07/14/03	07/31/03	6 p.m.-9 p.m.	6
Introduction to Object-Oriented Programming Using Java	CAPR 2601-100	06/09/03	06/30/03	6 p.m.-9 p.m.	7
Java for Object-Oriented Experienced Programmers	CAPR 3601-100	07/07/03	07/28/03	6 p.m.-9 p.m.	7
Object-Oriented Design Patterns	CAPR 5401-100	07/12/03	07/12/03	9 a.m.-4 p.m.	1
Introduction to Hands-On Visual Basic Programming	CAPR 2301-100	06/03/03	06/17/03	6 p.m.-9 p.m.	5
Intermediate Hands-On Visual Basic Programming	CAPR 3301-100	07/12/03	07/26/03	9 a.m.-4 p.m.	3
Introduction to PERL for Programmers	CAPR 2701-100	06/16/03	07/14/03	6 p.m.-9 p.m.	5
Technical Tour of .NET and C#	CAPR 3703-100	06/21/03	06/21/03	9 a.m.-4 p.m.	1
Web...Course descriptions begin on page 33					
Internet Fundamentals	CAWB 1001-100	06/02/03	06/04/03	6 p.m.-9 p.m.	2
Design Techniques for Web Sites	CAWB 3101-100	06/09/03	06/23/03	6 p.m.-9 p.m.	3
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-101	06/03/03	06/17/03	6 p.m.-9 p.m.	5
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-102	06/30/03	07/14/03	6 p.m.-9 p.m.	5
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-101	06/21/03	06/28/03	9 a.m.-2:30 p.m.	2
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-102	07/16/03	07/23/03	6 p.m.-9 p.m.	3
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-101	06/02/03	06/23/03	6 p.m.-9 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-102	07/08/03	07/29/03	6 p.m.-9 p.m.	4
Hypertext Mark-up Language (HTML) Version 4	CAWB 5311-100	06/18/03	06/25/03	6 p.m.-9 p.m.	2
Introduction to JavaScript	CAWB 2701-100	07/10/03	07/31/03	6 p.m.-9 p.m.	4
Introduction to Motion Graphics Using Flash MX	CAWB 2511-100	06/04/03	06/26/03	6 p.m.-9 p.m.	4
Intermediate Motion Graphics Using Flash MX	CAWB 3512-100	07/17/03	07/31/03	6 p.m.-9 p.m.	5
Advanced Motion Graphics Using Flash MX	CAWB 4511-100	06/03/03	06/24/03	6 p.m.-9 p.m.	4
Dreamweaver MX	CAWB 2611-101	06/14/03	06/21/03	9 a.m.-4 p.m.	2
Dreamweaver MX	CAWB 2611-102	07/15/03	08/05/03	6 p.m.-9 p.m.	4
ColdFusion MX	CAWB 2811-100	06/03/03	06/19/03	6 p.m.-9 p.m.	6
Introduction to Hypertext Preprocessor (PHP)	CAWB 2911-100	07/16/03	08/06/03	6 p.m.-9 p.m.	4
Web Site Design Project	CAWB 9001-100	07/02/03	07/30/03	6 p.m.-9 p.m.	5

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

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 100: Monday and Wednesday, June 2 and 4, 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). \$275.

Windows XP**CAAP 2141**

Learn the essentials of Windows XP. This course will cover adding and removing programs, setting up your Internet, managing files and folders, using the Search Companion to find anything and trouble-shooting XP. Also learn to customize your computer using the control panel. This two-day course will allow time for experimentation and lots of practices. **Prerequisite: Fundamental knowledge of basic computer functions.**

Chris Mattson, BS

Section 100: Monday and Wednesday, July 7 and 9, 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). \$275.

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 100: Thursday, June 5, 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). \$215.

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.

Chris Mattson, BS

Section 100: Thursday, June 19, 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). \$215.

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 100: Monday and Wednesday, June 16 and 18, 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). \$350.

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.

Chris Mattson, BS

Section 100: Monday, June 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). \$215.

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 100: Tuesdays and Thursdays, July 22-31, 6-9 p.m. 4 sessions. University Computing Center 127. \$350.

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 or CAAP 2431 Access 2002 Level I or previous experience with databases.

Andy Marangakis, MS

Section 100: Tuesdays, June 24-July 29, 6-9 p.m. 6 sessions. University Management Systems 101. \$425.

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 100: Monday and Wednesday, June 2 and 4, 6-9 p.m. 2 sessions. Humanities 1B35. \$196.

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 100: Saturday, June 7, 9 a.m.-5 p.m. 1 session. Humanities 1B35. \$224.

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 100: Wednesdays, June 18 and 25, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127. \$336.

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 100: Mondays and Wednesdays, June 9-18, 6-9 p.m. 4 sessions. Humanities 1B35. \$336.



Quality of education, reputation of the school, variety of classes and convenience are reasons people cite for choosing CU for continuing education. Jerry Dismukes, a student in Stephen Kaminski's introductory C++ class, has a full-time job and chose CU because of its excellent reputation. He's enjoying learning computer skills that will make him more marketable and being challenged by the material. "The class hops along pretty fast—it keeps things interesting."

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 6 ImageReady 3 Hands-On Training*, Weinman and Kabili.

Tim Meehan

Section 100: Tuesdays and Thursdays, July 8-17, 6-9 p.m. 4 sessions. Humanities 1B35. \$336.

(Graphics continued)

Sometimes a Continuing Education course can change your life. Mollie Brackett is studying computer applications, hoping to get a better job. Most recently she was in Stephen Kaminski's Introduction to Application Programming. Then she found that she had the knack. "My thought processes are right in line with programming. I think I've found an exciting new career." Now Mollie is planning to get a graduate degree in computer applications.

Illustrator 10 Level I CAGR 2211

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

Jerry Reynolds, MSEE

Section 100: Tuesdays and Thursdays, July 1-10, 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). \$350.

Illustrator 10 Level II CAGR 3221

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. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms.

Prerequisite: CAGR 2211/2221 **Illustrator Level I** or equivalent.

Rick Hoyt, MA

Section 100: Saturdays, July 19 and 26, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$350.

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. This course will be taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms. **Required text:** *Multimedia: Making It Work*, Tay Vaughan.

William Busch

Section 100: Mondays, July 7-28, 6-9 p.m. 4 sessions. Humanities 1B35. \$336.

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 100: Wednesdays, June 4-25, 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). \$300.

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 100: Tuesdays and Thursdays, June 3-12, 6-9 p.m. 4 sessions. University Computing Center 123. \$300.



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 100: Mondays and Wednesdays, June 30-July 16, 6-9 p.m. 6 sessions. University Computing Center 127. \$450.

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 100: Mondays and Wednesdays, July 21-30, 6-9 p.m. 4 sessions. University Computing Center 127. \$300.

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 100: Mondays, Wednesdays and Thursday, July 21-31, 6-9 p.m. 5 sessions. University Computing Center 123. \$336.

UNIX Survival Skills

CANW 1301

Learn the basics of the UNIX operating system using hands-on laboratory style exploration. UNIX fundamentals such as the file and directory structure, essential commands, the VI text editor, and the C-shell (csh) command shell will be covered. The concepts of shell and environment variables will be introduced. You will be oriented to the various UNIX-like operating systems offered by a variety of vendors, highlighting the major similarities and differences. This course is recommended for students wanting to learn UNIX, but not working toward a certificate program.

Prerequisite: Fundamental knowledge of basic computer functions.

James Lupo, PhD

Section 100: Mondays and Wednesdays, June 2-18, 6-9 p.m. 5 sessions. University Management Systems 101. \$420.

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 100: Tuesdays and Thursdays, July 1-17, 6-9 p.m. 6 sessions. University Computing Center 127. \$450.

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. **Prerequisites:** 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 100: Wednesdays, June 4 and 11, 6-9 p.m.; Thursdays, June 5 and 12, 6-9 p.m.; and Saturdays, June 7 and 14, 9 a.m.-4 p.m. 6 sessions. Humanities 1B70. \$525.

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 100: Wednesdays, June 25 and July 9, 6-9 p.m.; Thursdays, June 26 and July 10, 6-9 p.m.; and Saturdays, June 28 and July 12 (skip week of June 29), 9 a.m.-4 p.m. 6 sessions. University Management Systems 101. \$525.



(Programming continued)

Doors open when you take CU's Continuing Education classes. Winifred Foster is taking Stephen Kaminski's Introduction to C++ course as part of the computer applications certification program. "I'd like to get into project management, doing IT and Web projects." Like many computer applications students, Winifred is using the rigorous program to accelerate her career and enrich her skills along the way.

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++.

Prerequisite: 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 100: Mondays and Thursdays, June 2-26, 6-9 p.m. 8 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). \$525.

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 100: Mondays and Thursdays, July 14-31, 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). \$475.

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 100: Mondays and Wednesdays, June 9-30, 6-9 p.m. 7 sessions. Humanities 180. \$525.

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.

George Watson and Greg Holling, BS

Section 100: Mondays and Wednesdays, July 7-28, 6-9 p.m. 7 sessions. Humanities 186. \$525.

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.

Greg Holling, BS

Section 100: Saturday, July 12, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$210.



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 100: Tuesdays and Thursdays, June 3-17, 6-9 p.m. 5 sessions. University Computing Center 127. \$450.

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 100: Saturdays, July 12-26, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127. \$500.

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 100: Mondays, June 16-July 14, 6-9 p.m. 5 sessions. University Management Systems 101. \$450.

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.

Greg Holling, BS

Section 100: Saturday, June 21, 9 a.m.-4 p.m. 1 session. Humanities 186. \$180.

WEB

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 100: Monday and Wednesday, June 2 and 4, 6-9 p.m. 2 sessions. Humanities 1B45. \$209.

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 100: Mondays, June 9-23, 6-9 p.m. 3 sessions. Humanities 1B45. \$215.

Introduction to Hypertext Mark-up Language (HTML): Formatting, Links, Lists and Tables 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.

Ginny Figlar, MA

Section 101: Tuesdays and Thursdays, June 3-17.

Brandon Berman, MA

Section 102: Mondays and Wednesdays, June 30-July 14.

All Sections: 6-9 p.m. 5 sessions. Humanities 1B45. \$336.



(Web continued)

Intermediate Hypertext Mark-up Language (HTML): Meta Tags, Referencing and Frames 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 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 101: Saturdays, June 21 and 28, 9 a.m.-2:30 p.m. 2 sessions. University Computing Center 127.

Karis Vail Schmidt, BA

Section 102: Monday and Wednesdays, July 16-23, 6-9 p.m. 3 sessions. Humanities 1B45.

All Sections: \$252.

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.

Susan Walanski, BA

Section 101: Mondays, June 2-23, University Computing Center 127.

Karis Vail Schmidt, BA

Section 102: Tuesdays, July 8-29, Humanities 1B45.

All Sections: 6-9 p.m. 4 sessions. \$336.

Hypertext Mark-up Language (HTML) Version 4

CAWB 5311

Learn HTML 4, the newest version of HTML! New and revised HTML tags, attributes, and values as specified by the W3C will be covered. This course builds on the skills learned in all levels of the HTML courses. **Prerequisite:** CAWB 4301 **Advanced HTML** or equivalent. Students must be proficient with PCs and the Windows operating system and able to implement the skills covered in all levels of the HTML courses with minimal assistance.

Beth Sigren, BS

Section 100: Wednesdays, June 18 and 25, 6-9 p.m. 2 sessions. University Computing Center 127. \$209.

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. This 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 100: Thursdays, July 10-31, 6-9 p.m. 4 sessions. Humanities 1B45. \$336.

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. **Required text:** *Flash MX Hands-On Training*, Weil and Green.

Brandon Berman, MA

Section 100: Wednesdays and Thursdays, June 4-26, 6-9 p.m. 4 sessions. University Computing Center 127. \$336.

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. **Required text:** *Flash MX Hands-On Training*, Weil and Green.

Brandon Berman, MA

Section 100: Mondays and Thursdays, July 17-31, 6-9 p.m. 5 sessions. University Management Systems 101. \$390.

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 100: Tuesdays, June 3-24, 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). \$336.

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.

Tim Mceban

Section 101: Saturdays, June 14 and 21, 9 a.m.-4 p.m. 2 sessions. University Management Systems 101. **Required text:** *Macromedia Dreamweaver MX Hands-on Training*, Green and Rudner.

Jeff Braunstein, MS

Section 102: Tuesdays, July 15-August 5, 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). **Required text:** *Dreamweaver MX for Windows and Macintosh: Visual QuickStart Guide*, J. Tarin Towers.

All Sections: \$336.

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

Section 100: Tuesdays and Thursdays, June 3-19, 6-9 p.m. 6 sessions. University Management Systems 101. \$475.

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 100: Wednesdays, July 16-August 6, 6-9 p.m. 4 sessions. University Management Systems 101. \$250.

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. **Prerequisite:** 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 100: Wednesdays, July 2-30, 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). \$375.



For some, Continuing Ed classes serve as an educational stepping stone. J.D. Willems is thinking about going to grad school, and views Kaminski's introductory C++ class as a way to not only learn about programming, but to ease back into the rigors of the classroom. "Taking classes keeps the blood flowing to your brain—it's like crossword puzzles; you don't do them for awhile and you forget how."

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 the specific field you have chosen. **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 course 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. Send the request via e-mail to cecas@colorado.edu or to the Computer Applications Registrar, Division of Continuing Education, University of Colorado at Boulder, 178 UCB, Boulder, CO 80309-0178.

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.

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 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 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 the 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 of 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. 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
 - CANW 5101 Network Administration
 - CANW 5301 UNIX System Administration

B. Programming Course (choose one)

(See page 31 for course listings)

C. Database Course (choose one)

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

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 you 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 Track (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

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 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.

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. 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 5311 Hypertext Mark-up Language Version 4
- CAWB 3102 Web Server Administration
- CAWB 3702 Intermediate JavaScript
- 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

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.

Building Your Own Access Database

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.

Schedule: TBA

Creating Cool Web Buttons with Photoshop

Learn the power-user secrets and techniques for making cool buttons for the Web. In this focused two-hour session, we'll cover all the advanced techniques you need to know to create animated, textural, natural-looking, dimensional and interactive buttons for all your web and multimedia projects. This workshop is not for novice users. Students should have some working knowledge of Photoshop or have taken at least a Photoshop Level I course.

Schedule: TBA

Creating Web Backgrounds with Photoshop

Have you ever seen a beautiful, natural-looking, seamless backdrop on a web page or digital illustration and wondered "How'd they do that?" Now is your chance to find out! Learn the techniques for making digitally-painted and natural-looking backdrops, backgrounds, patterns and textures for the Web and multimedia projects. This workshop is not for novice users. Students should have some working knowledge of Photoshop or have taken at least a Photoshop Level I course.

Schedule: TBA

Creating Panoramic Images with Photoshop

Learn advanced techniques for creating broad, seamless panoramic images. You'll learn all the ins and outs, pitfalls and potholes to avoid in creating this scenic media image format. This workshop will cover all the tools and techniques you need to create your own impressive panoramas from scratch, using your own digital images. This workshop is not for novice users. Students should have some working knowledge of Photoshop or have taken at least a Photoshop Level I course.

Schedule: TBA

Creating Animations with Photoshop

If you're creating multimedia content for the Web or any other multimedia format, you won't want to miss this workshop. Animated and interactive GIF images and dynamic HTML content are standards of presentation on the Web today, and you need to know how to do it efficiently, effectively, and most of all, cost-effectively. This workshop will teach you all you need to know to make the most of this compelling media type using a variety of tools and techniques. This workshop is not for novice users. Students should have some working knowledge of Photoshop or have taken at least a Photoshop Level I course.

Schedule: TBA

Automating Processes with Photoshop

Learn how to automate almost every process and function with a few simple clicks using one of the most powerful features of Photoshop - the Actions palette. What's even better, you can create droplets and applets that you can distribute via e-mail to your clients and co-workers to help them automate their work and enhance the value of your work. Learn how to make Photoshop do all the work for you, while you get a cup of coffee! This workshop is not for novice users. Students should have some working knowledge of Photoshop or have taken at least a Photoshop Level I course.

Schedule: TBA

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

NCFL 900

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).

Summer Session: Mondays and Wednesdays, June 18-July 30, 6:30-8:30 p.m. Tuition: \$345, materials included.

Intermediate Level

NCFL 910

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.

Summer Session: Mondays and Wednesdays, June 18-July 30, 6:30-8:30 p.m. Tuition: \$345, materials included.

Advanced Level

NCFL 920

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.

Summer Session: Mondays and Wednesdays, June 18-July 30, 6:30-8:30 p.m. Tuition: \$345, materials included.

Effective Pronunciation

NCFL 950

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.

Summer Session: Tuesdays, June 17-July 29, 6-8:30 p.m. Tuition: \$225, materials included.

Writing Skills

NCFL 960

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.

Summer Session: Tuesdays, June 17-July 29, 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 710-143

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 710-144

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 710-145

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 710-146

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 in the program. *CEDIR will be offered July 21-August 1, 2003.*

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, to obtain a solid understanding of fundamental business practices, acquire skills that will guide them in choosing a career, and provide 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 two electives - 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 12-30, 2003.*

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

The fall 2003 schedule will be published on our web site in July 2003. \$585; 10% discount with early registration

Standards and Ethics NCRE 202

The fall 2003 schedule will be published on our web site in July 2003. \$235; 10% discount with early registration

Basic Appraisal Applications: Residential Case Study NCRE 204

The fall 2003 schedule will be published on our web site in July 2003. \$375; 10% discount with early registration

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 www.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 in the areas of:

- Embedded System Design
- Real-time Embedded Systems Programming
- Embedded Systems Project

Each course carries 3 semester hours of academic credit at the graduate level. 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.

SOFTWARE ENGINEERING CERTIFICATE

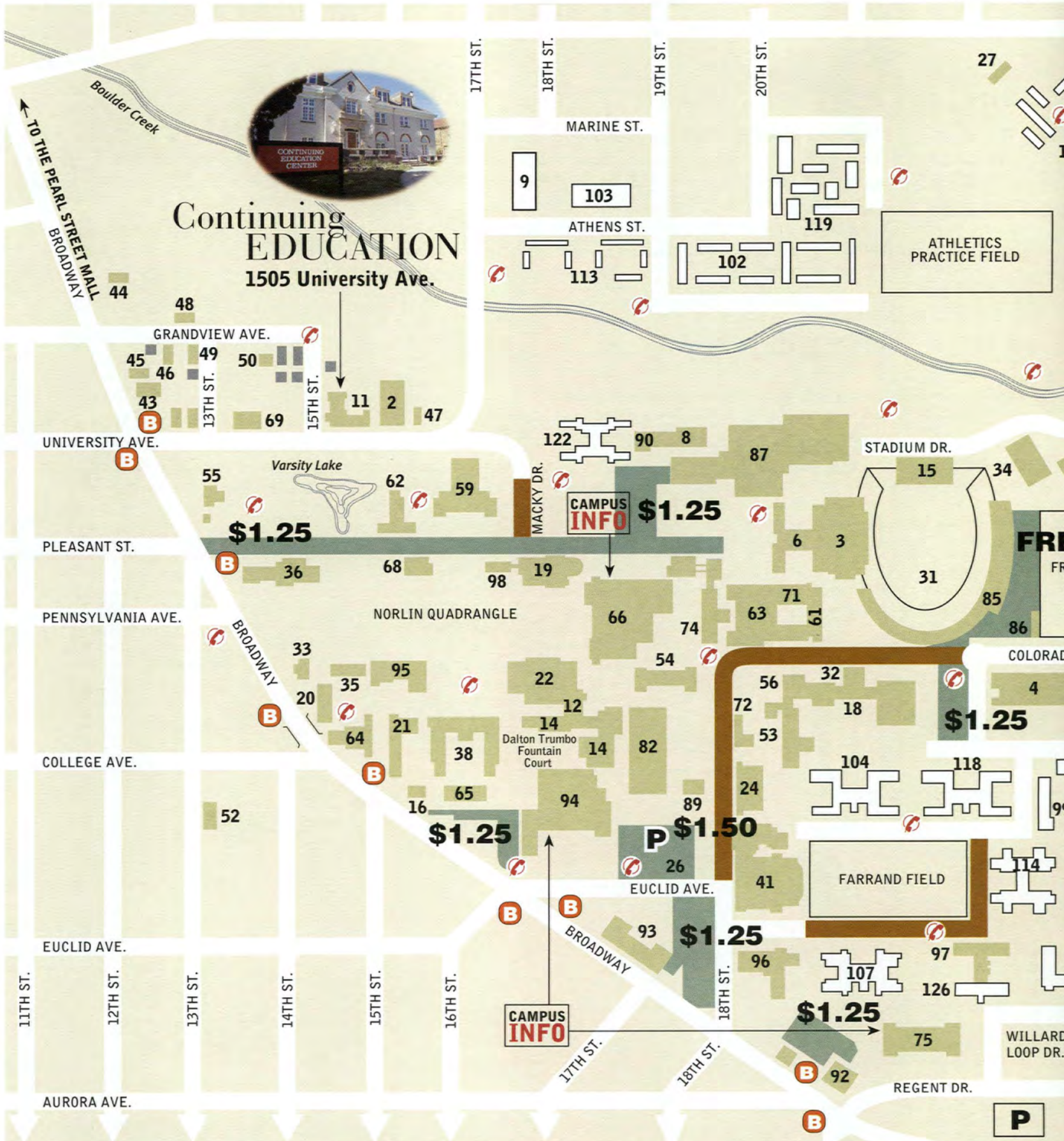
The Software Engineering Certificate is another certificate program from the CU-Boulder Department of Electrical and Computer Engineering. The relentless pace of change has characterized the field of software development, programming and engineering since its beginning. This program is designed to benefit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

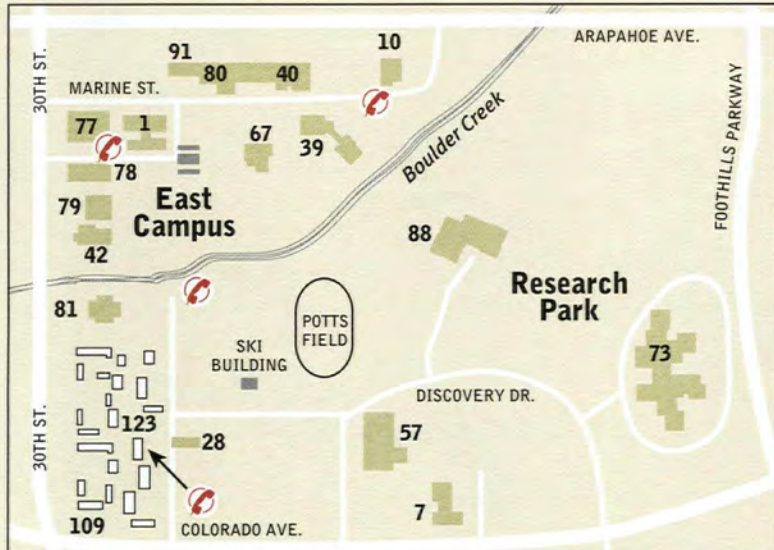
Each course carries 3 semester hours of academic credit at the graduate level. All credits earned in the certificate can be transferred to an appropriate graduate engineering program at CU-Boulder. For more information, visit the web site www.colorado.edu/conted/certif.htm.

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



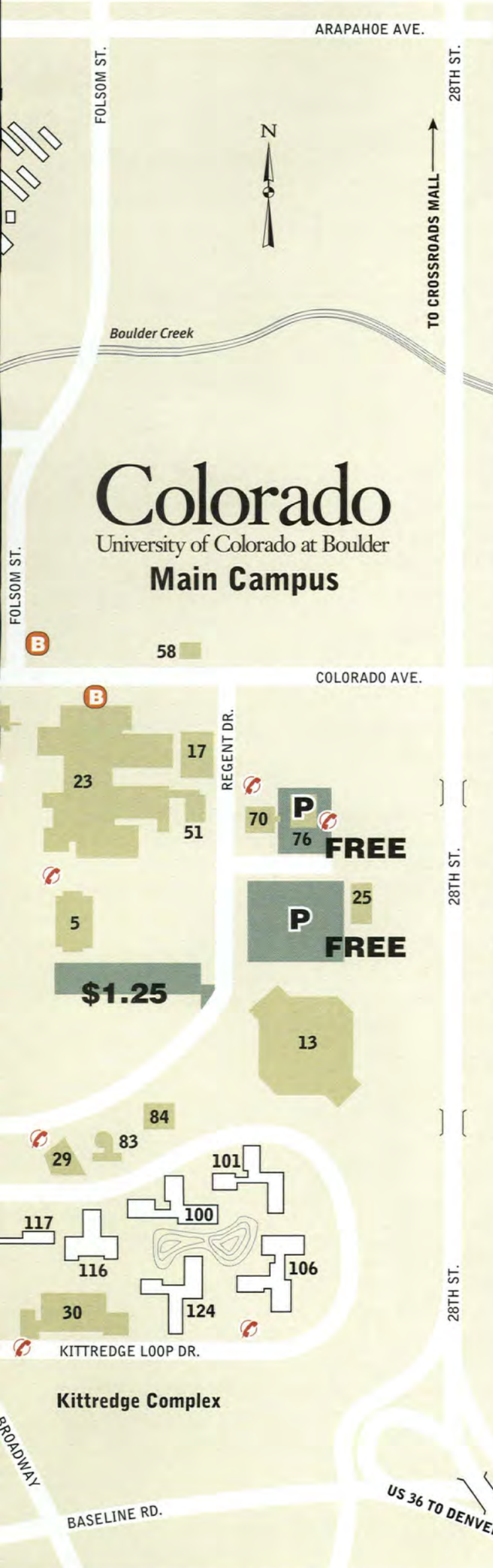
**Continuing
EDUCATION**
1505 University Ave.

Boulder Creek
← TO THE PEARL STREET MALL
BROADWAY



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
- P FREE** Free parking after 5 p.m., and Saturdays
- P \$1.25 \$1.50** \$1.25/\$1.50 parking after 5 p.m., and Saturdays. Exact change in quarters suggested
- Emergency telephones
- B** RTD bus stops bordering campus



Colorado

University of Colorado at Boulder

Main Campus

University Buildings

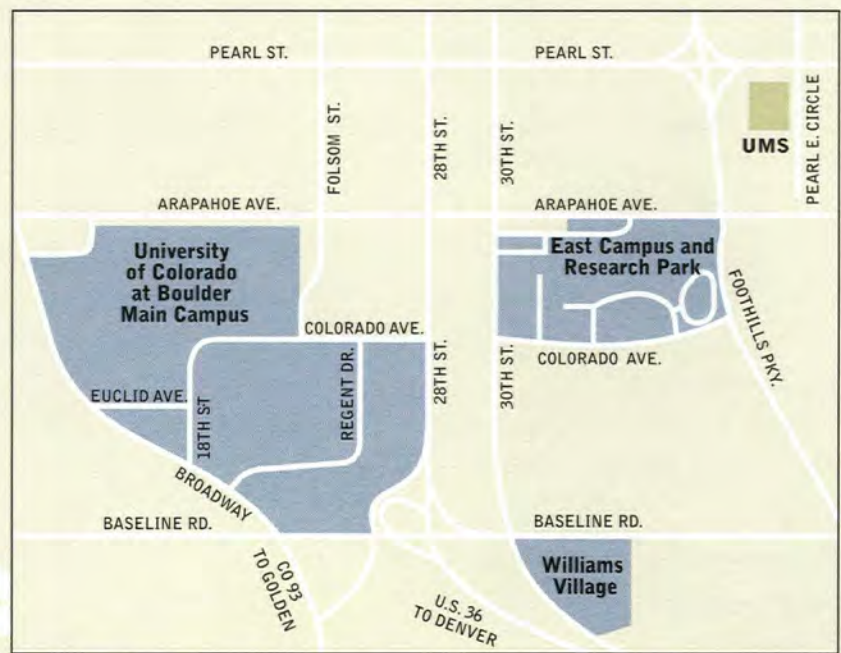
1. Administrative and Research Center—East Campus (J-2) (ARCE)
2. Armory (D-4) (ARMR)
3. Balch Fieldhouse (E-7) (FH)
4. Benson Earth Sciences Building (F-9) (BESC)
- * Bruce Curtis Collections. See *Museum Collections*.
5. Business (H-10) (BUS)
6. Carlson Gymnasium (E-7) (CARL)
7. Center for Astrophysics 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) (ENVU)
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 May 5!

1. **Register by Mail.** A postage-paid envelope is located in this catalog. Registration forms are on page 45 for evening credit and page 47 for personal enrichment and computer courses.
2. **Fax Your Registration.** Fast and easy. Day or night to 303-492-3962. Send page 45 for evening credit courses and page 47 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 47) and have your credit card information handy. Then call 303-492-5148 or 800-331-2801 (TTY 303-492-8905).
6. **Use CU Connect or PLUS for Boulder Evening and Independent Learning Courses.** See page 8 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

Fall and Spring Hours:

Monday-Friday 8 a.m.-5 p.m. (Thursdays until 6 p.m.)

Summer Hours beginning May 9 through August 9

Monday-Friday 7:30 a.m.-4:30 p.m. (Thursdays until 5:30 p.m.)

The University will be closed Monday, May 26 and Friday, July 4.

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 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.

Credit Registration Form

MAIL TODAY!
 FAX: 303-492-3962
 STOP BY: 1505 University Avenue

Credit Registration Form

 UNIVERSITY OF COLORADO
 DIVISION OF CONTINUING EDUCATION

PROGRAM / TERM

Last Name	First Name	Middle Name	Former or Maiden Name

Mailing address _____
 No. and Street, Apt. No. _____ City _____ State _____ Zip Code + 4 _____

E-mail address _____
 Home Phone _____ Work Phone _____

BIRTHDATE _____ / _____ / _____
 Month/Day/Year Age _____

SEX:
 Male Female

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

RESIDENCY:
 Colorado
 Other State Abbr. _____

SOCIAL SECURITY NUMBER: _____ / _____ / _____
For identification purposes, if you wish to claim continuing education tax credits, your social security number must be provided.

CITIZENSHIP:
 C=U.S. Citizen
 P=Non-U.S. Citizen/permanent status -List alien registr. No. _____
 T=Non-U.S. Citizen-Country _____ -List Type of Temporary Visa _____

FORMER CU STUDENT NUMBER: _____

- Do you have a high school diploma or a G.E.D. Certificate? No (Submit HS Concurrent Form) Yes
 High School Name/City/State _____ Graduation Date _____
- Have you ever enrolled for credit course(s) at any campus of the University of Colorado?
 No Yes Campus _____ Term _____ Year _____ of most recent attendance
 Degree Student or Nondegree Student
- Are you currently on suspension from any Campus/School of CU? No Yes School _____
- Do you owe a debt to any University of Colorado campus? No Yes
- Do you have a college degree? No Yes Highest Degree _____ Date Awarded _____
 College Name/City/State _____
- Have you ever been convicted of a felony? No Yes (Attach statement)

SELECTIVE SERVICE REGISTRATION CERTIFICATION:
 I certify that I am registered with the Selective Service
 I am not required to register with the Selective Service because:
 I am a female.
 I am in the U.S. Armed Forces on active duty.
 I have not yet reached my 18th birthday.
 I am age 26, or older, as of the date of the first day of class.
 I am a non-immigrant alien lawfully admitted in the U.S.

Dept. Abbr.	Course No.	Cr. Hrs.	Sect. No.	Title(s) of course(s) for which you are enrolling	Location

COMPLETE THIS SECTION IF YOU HAVE NOT ATTENDED ANY UNIVERSITY OF COLORADO CAMPUS WITHIN THE LAST 12 MONTHS AND ARE CLAIMING IN-STATE TUITION CLASSIFICATION.

Students already classified as nonresidents must submit a separate "Petition for In-State Tuition" in order to change their tuition classification.

FAILURE TO ANSWER EACH QUESTION MAY RESULT IN YOUR BEING CLASSIFIED AS A NONRESIDENT.

	YOU	YOUR FAMILY (check one): <input type="checkbox"/> PARENT <input type="checkbox"/> GUARDIAN
Dates of continuous physical presence in Colorado (mo./day/yr.)	_____ / _____ / _____ to _____ / _____ / _____	_____ / _____ / _____ to _____ / _____ / _____
Dates of employment in Colorado (mo./day/yr.)	_____ / _____ / _____ to _____ / _____ / _____	_____ / _____ / _____ to _____ / _____ / _____
List exact years for which Colorado income taxes have been filed	_____	_____
Dates of extended absences from Colorado of more than two months within the past two years (mo./day/yr.)	_____ / _____ / _____ to _____ / _____ / _____	_____ / _____ / _____ to _____ / _____ / _____
Dates of active duty military service, if applicable (mo./day/yr.)	_____ / _____ / _____ to _____ / _____ / _____	_____ / _____ / _____ to _____ / _____ / _____
If military, dates stationed in Colorado (mo./day/yr.)	_____ / _____ / _____ to _____ / _____ / _____	_____ / _____ / _____ to _____ / _____ / _____
Date current Colorado driver's license, if applicable (mo./day/yr.)	_____ / _____ / _____ to _____	_____ / _____ / _____ to _____
List exact years of Colorado motor vehicle registration	_____	_____
Date of Colorado voter registration (mo./day/yr.)	_____ / _____ / _____ to _____	_____ / _____ / _____ to _____ / _____ / _____
Dates of ownership of any Colorado residential property (mo./day/yr.)	_____ / _____ / _____ to _____ / _____ / _____	_____ / _____ / _____ to _____ / _____ / _____

I hereby certify that to the best of my knowledge the information furnished on this application is true and complete. I understand that if found to be otherwise, it is sufficient cause for rejection or dismissal. I agree to observe all campus policies and regulations including the Honor Code.

Student's Signature _____ Date _____ Charge: VISA MasterCard Discover (check one)

Tuition Payment Please send a check, payable to University of Colorado, to:
 Division of Continuing Education
 University of Colorado at Boulder, 178 UCB
 Boulder, CO 80309-0178
 If using MasterCard, VISA, Discover enclose the following information.

Expiration Date _____ / _____ / _____
 Print Cardholder's name, as it appears on the charge card.

Admission to the University of Colorado as a Nondegree Student does not guarantee eligibility for regular degree status.

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.

University of Colorado Catalog (USPS 651-060) is published 8X a year (January/February, March/April, May, May/June, August, 3X in December), by the University of Colorado, 3100 Marine Street, 584 UCB, Boulder, CO 80309-0584. Volume 2003, No 5. Periodicals Postage Paid at Boulder, Colorado. POSTMASTER: Send address changes to University of Colorado Catalog, Division of Continuing Education, University of Colorado at Boulder, 178 UCB, Boulder, CO 80309-0178.

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.



Noncredit Registration Form

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

FULL LEGAL NAME: _____ SOCIAL SECURITY NO.: _____
Last First Middle Former or Maiden (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: _____

BIRTHDATE: _____ AGE: _____ SEX: Male Female FORMER CU STUDENT NO: _____
Month/Day/Year (If applicable.)

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:

- I certify that I am registered with the Selective Service.
- I am not required to register with the Selective Service because:
 - I am a female.
 - I am in the U.S. Armed Forces on active duty.
 - I have not yet reached my 18th birthday.
 - I am age 26, or older, by the first day of class.
 - I am a non-immigrant alien lawfully admitted in the U.S.

- 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.

Index

A

ACCESS Program 17
Access (database software) 28, 38
Acting 22
Anthropology 5, 11
Applied Music 14
Appraisal program 40
Art history 6
Astrophysical and Planetary Sciences 11
Atmospheric and Oceanic Sciences 5

B

Boulder Evening Credit Program 3-7
Business Education, Center for 40

C

C# programming 33
Campus Map 42-43
CATECS 17
CEDIR Program 40
Certificate Programs
 Business Intensive 40
 Embedded Systems 41
 Executive Development 40
 Network Administration 36
 Programming 36-37
 Software Engineering 41
 Web Graphics 36
 Web Site Design 37
ColdFusion 35
Communication 5, 11
Computer Applications Program 25-38
Computer Graphics 29-30
Computer Science 11
Correspondence study 11-14, 16
Creative writing 23
CU Connect 8
CUBIC Program 40

D

Databases 28, 29, 38
Degree Completion Program 17
Distance learning 11-16, 17
Drawing 20
Dreamweaver 35

E

Economics 5, 12
Education 12
Embedded Systems Certificate 41
Engineering 17, 41
English 5, 12, 15
English as a Second Language 39
Excel 28
Executive Education 40

F

Faculty/Staff Discounts 3, 19, 26
Figure Drawing 20
50 for Colorado 40
Fine Arts 6, 12, 20-21
Flash 34
Foreign Languages 7, 21
French 21

G

Geography 12
Geology 13
German 21
Getting Published Series 23
Graphic design 29
Graphics 29-30

H

High School Concurrent Program 17
High School correspondence 16
History 6, 13
HTML 33-34
Hypertext Preprocessor (PHP) 35

I

Illustrator 30
Independent Learning Programs 11-16
International English Center 39
Internet applications 33-35
Italian 22

J

Japanese 22
Java programming 32
JavaScript 34
Journalism 6, 13

K

Kinesiology and Applied Physiology 6, 13

L

Literature 5

M

Map 42-43
Mathematics 13
Motion graphics 34
Multimedia 30
Music 13, 14

N

.NET 33
Network Administration Certificate 36
Networking 30-31
Nontraditional
 Student Scholarships 3, 19, 26
Nutrition 6

O

Object-Oriented Design 32
Oil painting 21
Online courses 11-15

P

Painting 21
Parking 42-43
PERL 33
Personal Enrichment Program 19-23
Philosophy 13
Photography 21
Photoshop 29, 38
PHP 35
PLUS 8
Political Science 6, 14
Portuguese 22
Programming Certificate 36-37
Programming 31-33
Psychology 7, 14

Q

Quantitative Reasoning
 and Mathematical Skills 7

R

Real Estate Appraisal Program 40
Refunds
 Boulder Evening 3
 Computer Applications 25
 Personal Enrichment 19
Registration Information 44
Relational databases 29

S

Scholarships 3, 19, 26
Sociology 7, 14
Software Engineering Certificate 41
Spanish 7, 22
Spreadsheets 28
SQL programming 29
Summer Session 17

T

Term-based web courses 15
Theatre 22
Travel Writing 23

U

UNIX 31

V

Visual Basic 33

W

Water Media 21
Web applications 33-35
Web-based courses 11-15
Web Graphics Certificate 36
Web Site Design Certificate 37
Windows 28
Workshops 38
Writing 23
Writing and Rhetoric 7, 14, 15

Colorado

University of Colorado at Boulder

Division of Continuing Education

1505 University Avenue
University of Colorado at Boulder
178 UCB
Boulder, Colorado 80309-0178

19170

www.colorado.edu/conted

Continuing EDUCATION

Choose your future today! CU-Boulder Continuing Education has the classes to help you realize your full potential. Let us help you

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

