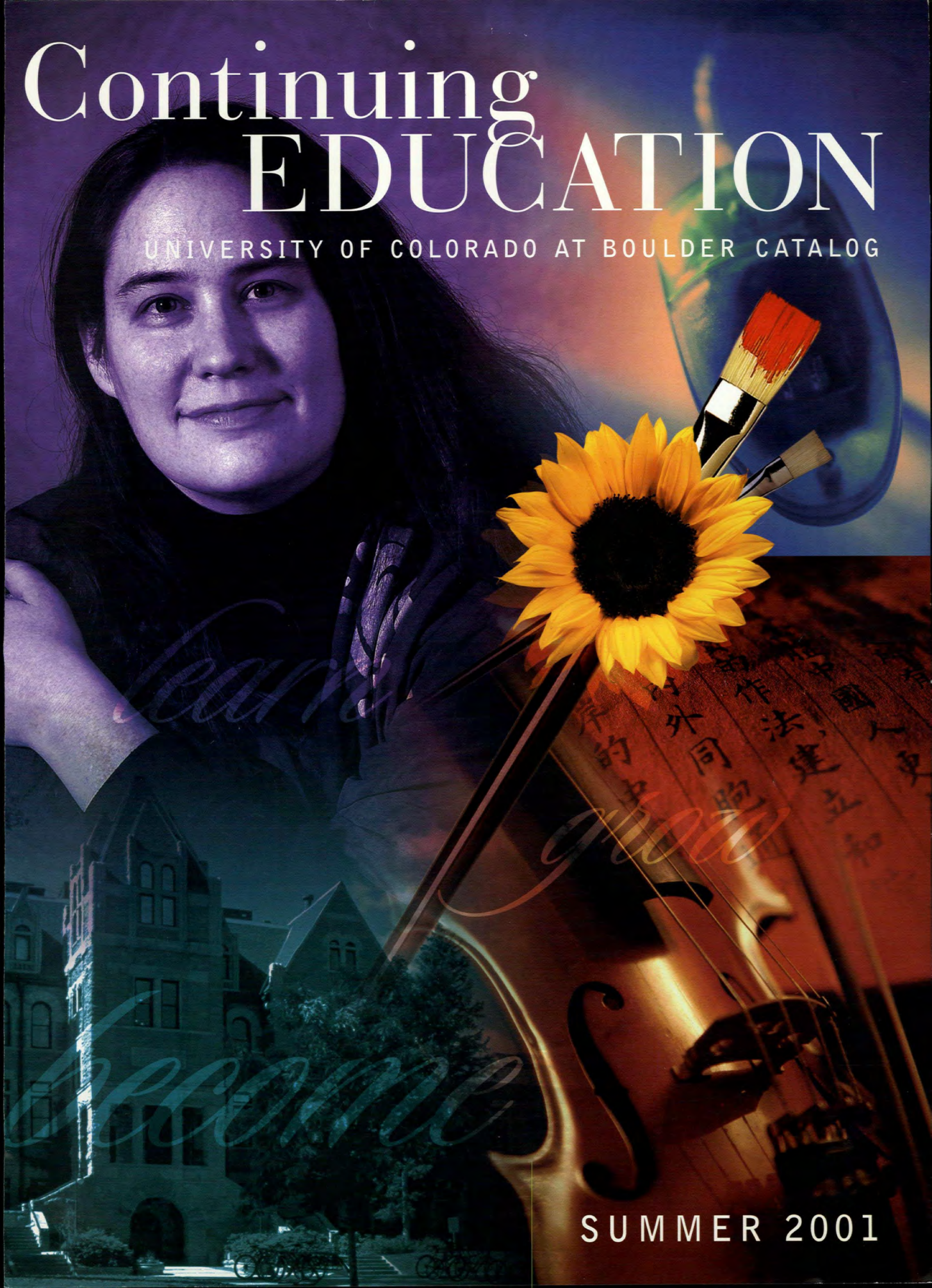


Continuing EDUCATION

UNIVERSITY OF COLORADO AT BOULDER CATALOG



Learn

Belong

SUMMER 2001

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 credit to personal enrichment classes to career-boosting computer courses. Let us help you “learn...grow...become.”

As you browse through our catalog, keep in mind the following tips:

www.colorado.edu/conted has the most up-to-date details.

Credit programs are listed in the front of the catalog.

Key policies, procedures, and contact information are detailed on page 48.

Registration policies differ by program. Refer to the introduction page of each section for policies specific to the courses listed in that section, including drop/add and payment/refund dates.

Parking and class building locations can be found on page 47.

Tuition for Continuing Education is **not included** in main campus tuition.

SCHOLARSHIPS

Continuing Education students who are 25 or older may be eligible for scholarship funds. For more information please contact us at 303-492-5148 or visit us on the web at www.colorado.edu/cewww/scholarinfo.html.

NEW AND NOTEWORTHY

Computer Applications Program

CACS 451: Enterprise Java Beans
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The Colorado Shakespeare Festival
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PROGRAM UPDATE

The Certificate in Computer Applications will no longer be offered after this summer. For more information please refer to page 26.

Registration Information

See page 48 or call 303-492-5148

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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.

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For people in transition, on the road, or just busy with multiple demands, an excellent solution for disciplined independent learners.

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Graduate engineering courses delivered directly to business or industry via live TV broadcast, the Web, and videotape.

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Personal Enrichment Courses

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

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Computer Applications Program

Hands-on instruction from user-friendly instructors, to teach you the basics or take you to the power-user edge. Certificates in Network Administration, Programming and Web Site Design available.

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A full curriculum of noncredit real estate and appraisal courses for professional licensure and license renewal in the state of Colorado.

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CATALOG PRODUCTION

Catalog production is wholly self-sustaining and does not involve funds allocated by the legislature for the university at large.

♻️ Recycled paper is used throughout the book. Share your catalog with friends, and recycle all appropriate materials. Thank you.

"The key to understanding revolution is grasping the human element – the people's quest for change."

*Merle Funk, Ph.D.
Revolution in History*



*Wander
evening*

BOULDER EVENING CREDIT CLASSES

BOULDER EVENING CREDIT offers university courses that give you more options and more flexibility, to help you continue your education while juggling the demands of a busy life. To understand exactly how Evening Credit courses fit into your program of study, make an appointment to talk to an advisor. 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 Boulder Evening course taken for pass/fail is subject to restrictions established by your school or college.

Final Grades: Final grades for Boulder Evening will be available approximately 2 weeks after the course ends. To check your final grade, see the "Grades" information on the CU Connect and PLUS Registration Instructions, page 10.

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 by the appropriate date. If you don't officially withdraw from a course, you may receive a grade of "F" for that course.

Tuition: Tuition is determined by residency status. Resident tuition is \$120 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 \$220 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 for Boulder Evening when a nonresident student pays for 6 or more hours through the Boulder campus and then enrolls for additional Boulder Evening 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.

Under 23? 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: Boulder Evening 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: Nondegree students who are 25 years of age or older and who are not admitted to the University are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. May 14 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/cwww/scholarinfo.html

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, call 303-492-8987 or visit the web site at registrar.colorado.edu/support/transcripts.htm for additional 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 5.

To Enroll: We encourage you to register in advance of the first class by CU Connect, PLUS, by mail, by 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 Boulder Evening courses at half the regular tuition on a space available basis. Please bring proof of appointment (showing at least half-time employment) to registration. See page 4 for registration dates.

SURVIVAL TIP:

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

What causes revolution? Merle Funk has been fascinated by this question ever since that day in junior high when he saw posters of the 1917 Russian Revolutions. He was captivated by the facial expressions of the Russian people – expressions of passion and suffering. "What intrigues me is, the character of the individuals who fought against oppression." Merle wants his students to connect with the personalities of revolution – Nicholas II, Lenin, Rasputin, Stalin. Identifying with the individual stories helps us understand what causes revolution.

**B O U L D E R E V E N I N G R E G I S T R A T I O N
& A C A D E M I C C A L E N D A R**

S U M M E R 2 0 0 1

May 7

Boulder Evening registration through CU Connect or PLUS begins 7 a.m. - midnight. Registration is also available by mail, fax, or in person at the Division of Continuing Education, 1505 University, 7:30 a.m.-5 p.m. Monday through Friday.

May 14

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

June 4

Summer Boulder Evening classes begin, except SPAN 2110 which begins June 12.
Faculty/Staff registration. 50% discount with proof of appointment.

June 6

Deadline to petition for in-state classification for classes.

June 8

5 p.m. deadline to register for classes except SPAN 2110, add your name to a wait list, request pass/fail status or drop with a 100% refund.
Withdrawals from classes after this date will appear as a "W" on student's academic record and must be received in writing.

June 11

Instructor's signature required to add or drop classes except SPAN 2110.

June 15

5 p.m. deadline to register, add your name to the wait list, request pass/fail status or drop with a 100% refund for SPAN 2110.
Withdrawals from SPAN 2110 after this date will appear as a "W" on student's academic record and must be received in writing.
5 p.m. deadline to drop all courses except SPAN 2110 with a 60% refund.*

June 18

Petition required to add or drop classes except SPAN 2110.
Instructor's signature required to add or drop SPAN 2110.

June 22

5 p.m. deadline to drop all courses except SPAN 2110 with a 40% refund and drop SPAN 2110 with a 60% refund.*

June 25

Petition required to add or drop SPAN 2110.

June 29

5 p.m. deadline to drop SPAN 2110 with a 40% refund.*

July 4

No classes

July 26-30

Last day of classes and final exams except for SPAN 2110.

August 2

Last day of class and final exam for SPAN 2110.

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

COURSES BY START DATE

SUMMER 2001

Courses on Mondays and Wednesdays

Courses begin June 4 and end July 30

Course No. & Hours	Sec	Call #	Times	Course Title	Core
ENGL 3060-3	300	60200	6-8:45 p.m.	Modern and Contemporary Literature	literature and the arts
HIST 2100-3	300	60197	6-8:45 p.m.	Revolution in History: Russian Revolutions	historical context
HIST 2117-3	300	60195	6:30-9:15 p.m.	History of Colorado	United States context
PSCI 3011-3	300	60198	6-8:45 p.m.	The American Presidency	United States context
PSCI 4734-3	300	60212	5:30-8:15 p.m.	Politics and Literature	critical thinking
PSYC 4684-3	300	60199	6:30-9:15 p.m.	Developmental Psychology	none
SOCY 1016-3	300	60194	5:30-8:15 p.m.	Sex, Gender, and Society 1	cultural and gender diversity
UWRP 3020-3	301	60196	6-8:45 p.m.	Topics in Writing: Topics in <i>The New York Times</i>	written communication

Courses on Tuesdays and Thursdays

Courses begin June 5 and end July 26

Course No. & Hours	Sec	Call #	Times	Course Title	Core
ECON 2010-4	300	60204	6-8:45 p.m.	Principles of Microeconomics	contemporary societies
ENGL 1191-3	300	60201	6-8:45 p.m.	Introduction to Creative Writing	none
ENGL 3051-3	300	60208	6-8:45 p.m.	Intermediate Fiction Workshop	none
FINE 1400-3	300	60211	6-8:45 p.m.	History of World Art 2	literature and the arts
KAPH 3420-3	300	60202	6-8:45 p.m.	Nutrition, Health and Performance	natural science
MATH 1011-3	300	60205	5:30-8:15 p.m.	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills
PHIL 1000-3	300	60203	6:30-9:15 p.m.	Introduction to Philosophy	ideals and values
PSYC 4456-3	300	60210	6-8:45 p.m.	Psychology of Personality	none
SOCY 3151-3	300	60206	5-7:45 p.m.	Self in Modern Society	United States context or ideals and values
UWRP 3020-3	302	60209	5-7:45 p.m.	Topics in Writing: Plato's Symposium	written communication

Course on Tuesdays and Thursdays

Course begins June 12 and ends August 2

Course No. & Hours	Sec	Call #	Times	Course Title	Core
SPAN 2110-3	200	60207	5:30-8:15 p.m.	Second-Year Spanish 1	foreign language

SURVIVAL TIP: 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. ■ All tuition and refund determinations are subject to audit.

ECONOMICS

**Principles of Microeconomics
ECON 2010-4**

Examines basic concepts of microeconomics, or the behavior and interactions of individuals, firms, and government. Topics include determining economic problems, how consumers and businesses make decisions, how markets work and how they fail, and how government actions affect markets. This section requires World Wide Web access for online recitation. Students may not receive credit for ECON 2010 and 2011 or 1000 or 1001. Meets MAPS requirement for social science: general. Approved for arts and sciences core curriculum: contemporary societies.

Rachael Small, M.B.A.

Section 300: Call No. 60204 Tuesdays and Thursdays, 6-8:45 p.m. Economics 2. \$480 (resident).

ENGLISH

**Introduction to Creative Writing
ENGL 1191-3**

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

James McVey, Ph.D.

Section 300: Call No. 60201 Tuesdays and Thursdays, 6-8:45 p.m. Hellems 245. \$360 (resident).

**Intermediate Fiction Workshop
ENGL 3051-3**

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

George Moore, Ph.D.

Section 300: Call No. 60208 Tuesdays and Thursdays, 6-8:45 p.m. Hellems 259. \$360 (resident).

**Modern and
Contemporary Literature
ENGL 3060-3**

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, Ph.D.

Section 300: Call No. 60200 Mondays and Wednesdays, 6-8:45 p.m. Hellems 241. \$360 (resident).

FINE ARTS

**History of World Art 2
FINE 1400-3**

A basic survey of major art styles from about 1600 to the present, including Europe, Asia, the Islamic world, the Americas, and tribal arts. This course emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Not open to students who have taken FINE 1209. Same as FINE 1409, similar to FINE 1209. Approved for arts and sciences core curriculum: literature and the arts.

Priscilla Craven, M.A.

Section 300: Call No. 60211 Tuesdays and Thursdays, 6-8:45 p.m. Hale 230. \$360 (resident).

Additional writing courses are available through the Personal Enrichment program, page 23.



Wendy Daigle is taking a general math course to fulfill her math requirement as she pursues a degree in Sociology. She says the course is well-rounded and relevant to life in general. Wendy sees a degree in Sociology as the first step toward reaching her goal to go into the field of social work. She chose Continuing Education at the University of Colorado for several reasons. "I wanted to go to a major university. Taking classes at night allows for life to go on outside of school. And the small class-size helps me get more one-on-one time with the teacher."

HISTORY

Revolution in History: Russian Revolutions HIST 2100-3

Examines the causes, character, and significance of political revolution in world history. Concentrating on the 1917 Russian Revolutions, this course will examine why revolutions occur, who participates in revolution and to what effect. The course will also discuss the relevancy of the 1917 revolutions to the Gorbachev years and the current state of affairs in the former Soviet Union. Does not fulfill major requirements. Approved for arts and sciences core curriculum: historical context.

Merle Funk, Ph.D.

Section 300: Call No. 60197 Mondays and Wednesdays, 6-8:45 p.m. Education 143. \$360 (resident).

History of Colorado HIST 2117-3

Emphasizes historical variety and ethnic diversity of Colorado. Along with traditional themes in Colorado history, such as the gold rush, attention is given to Indian and Hispanic activity and culture. Does not fulfill major requirements. Approved for arts and sciences core curriculum: United States context.

James Fell, Ph.D.

Section 300: Call No. 60195 Mondays and Wednesdays, 6:30-9:15 p.m. Humanities 186. \$360 (resident).

KINESIOLOGY AND APPLIED PHYSIOLOGY

Nutrition, Health and Performance KAPH 3420-3

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, M.S., R.D., C.D.

Section 300: Call No. 60202 Tuesdays and Thursdays, 6-8:45 p.m. Clare Small 207. \$360 (resident).

MATHEMATICS

Fundamentals and Techniques of College Algebra MATH 1011-3

Covers simplifying algebraic expressions, factoring linear and quadratic equations, inequalities, exponentials, logarithms, functions and graphs, complex numbers, and binomial theorem. Students may not receive credit for both MATH 1011 and Math Modules 1000, 1010 and 1020. Prereq., one year of high school algebra or placement exam score for MATH 1000. Meets MAPS requirement for mathematics. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Craig P. McBride, B.S.

Section 300: Call No. 60205 Tuesdays and Thursdays, 5:30-8:15 p.m. Duane Physics G2B60. \$360 (resident).

PHILOSOPHY

Introduction to Philosophy PHIL 1000-3

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

Lee Speer, M.A.

Section 300: Call No. 60203 Tuesdays and Thursdays, 6:30-9:15 p.m. Education 143. \$360 (resident).

POLITICAL SCIENCE

The American Presidency PSCI 3011-3

Covers constitutional and institutional foundations and historical development of the presidency; roles, powers, selection, recent modifications, and institutionalization. Uses lectures and class discussion. Prereq., PSCI 1101. Approved for arts and sciences core curriculum: United States context.

Vincent McGuire, Ph.D.

Section 300: Call No. 60198 Mondays and Wednesdays, 6-8:45 p.m. Humanities 1B70. \$360 (resident).

Politics and Literature PSCI 4734-3

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

Loren Weinberg, Ph.D.

Section 300: Call No. 60212 Mondays and Wednesdays, 5:30-8:15 p.m. Hale 260. \$360 (resident).



PSYCHOLOGY

**Psychology of Personality
PSYC 4456-3**

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. Enrollment restricted to juniors and seniors.

Patrick Vann, Ph.D.

Section 300: Call No. 60210 Tuesdays and Thursdays, 6-8:45 p.m. Muenzinger E131. \$360 (resident).

**Developmental Psychology
PSYC 4684-3**

In-depth consideration of human developmental processes across the life span. Includes coverage of the major topics in human development, such as physical, cognitive, social, and personality development. Open only to juniors and seniors. Prereq., PSYC 1001.

Jennifer Schwartz, Ph.D.

Section 300: Call No. 60199 Mondays and Wednesdays, 6:30-9:15 p.m. Muenzinger E123. \$360 (resident).

Conversational language courses are available through the Personal Enrichment program, page 22.



When asked why he was taking Continuing Education courses at the University of Colorado, Josh Kirsh replied, "It's Boulder, man." Josh is working to gain Colorado residency and is taking Continuing Education courses to raise his GPA. His goal is to get accepted at CU's main campus. In the meantime, Josh likes the idea of taking classes at night. "It frees up my day schedule for work." He also likes that the classes are small. "It's easier to learn because there's more one-on-one time with the instructor."

SOCIOLOGY

**Sex, Gender, and Society 1
SOCY 1016-3**

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

Kris De Welde, M.A.

Section 300: Call No. 60194 Mondays and Wednesdays, 5:30-8:15 p.m. Education 136. \$360 (resident).

**Self in Modern Society
SOCY 3151-3**

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. Prereq., SOCY 1001 and either 2001, 3001 or 3011. Approved for arts and sciences core curriculum: United States context or ideals and values.

Tracy Crosby, M.A.

Section 300: Call No. 60206 Tuesdays and Thursdays, 5-7:45 p.m. Clare Small 208. \$360 (resident).

SPANISH

**Second-Year Spanish 1
SPAN 2110-3**

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1020 or 1150 with a grade of C- or better, or placement. Similar to SPAN 2150. Approved for arts and sciences core curriculum: foreign language. This class begins June 12 and ends on August 2.

Javier Garces, B.A.

Section 200: Call No. 60207 Tuesdays and Thursdays, 5:30-8:15 p.m. Hellems 237. \$380 (resident).

**UNIVERSITY
WRITING PROGRAM**

**Topics in Writing
UWRP 3020-3**

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

Topics in *The New York Times*

Linda Nicita, M.A.

Section 301: Call No. 60196 Mondays and Wednesdays, 6-8:45 p.m. Clare Small 212. \$360 (resident).

Plato's Symposium

Erik Fisher, M.A.

Section 302: Call No. 60209 Tuesdays and Thursdays, 5-7:45 p.m. Engineering Center CR 116. \$360 (resident).

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 CU Connect (the telephone registration system) or PLUS (web registration). To be eligible to use either CU Connect or PLUS, students must be activated for Continuing Education for the summer and have no academic or financial stops which could prevent them from registering. To be activated for Continuing Education for summer, return the credit registration form on page 49. 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 CU Connect or PLUS obligates you to pay any tuition charges as a result of adding any course.

CU Connect and PLUS 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 and on May 28 and 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 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 and Summer 2001 and follow the instructions on the web page from there to add, drop or wait list 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 you can choose "Planning Tools" and then Schedule Planner. If you have logged on to PLUS using your student number and PIN, you can 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 by 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 014
- 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 **wait list** position, press 5#
- To **search** for open sections, press 7#
- To place your name on a **wait list**, press 9#
- To **cancel** an entry, press *# before you have completed the transaction
- To **exit** the registration application, press 8# then 1 to access 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 CU Connect or PLUS. For Boulder Evening, your schedule can be adjusted 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 wait list 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 wait list 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 wait list position 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 CU Connect and PLUS. Credit card payments, using VISA, MasterCard or Discover, can be made on CU Connect and PLUS. 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.

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 (014 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 (main campus courses only)
- unofficial 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 CU Connect or PLUS. 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 next page.

If you need additional assistance, please call our registration office at 303-492-5148 between 8 a.m. and 5 p.m. Monday-Friday. If you need help after hours, a recorded message with helpful hints is available by calling 303-492-5148 and choose option "5" for CU Connect information.

INDEPENDENT LEARNING - IT'S UP TO YOU

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 courses, 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 World Wide 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 from Independent Learning Programs or on the World Wide Web: www.colorado.edu/cewww.

Dept	Course Number	Section*	Course Title	Credit Hours	Call Number	Tuition
ANTHROPOLOGY						
ANTH	1030	650	Principles of Anthropology 1	3	60010	\$270
ANTH	1040	650	Principles of Anthropology 2	3	60012	\$270
ANTH	2010	650	Introduction to Physical Anthropology 1	3	60014	\$270
ANTH	2020	650	Introduction to Physical Anthropology 2	3	60016	\$270
ANTH	2070	640	Bones, Bodies and Disease	3	60018	\$330
ANTH	2200	650	Introduction to Archaeology	3	60020	\$270
COMMUNICATION						
COMM	2400	640	Communication and Society	3	60022	\$330
COMM	2400	650	Communication and Society	3	60024	\$330
COMM	4600	640	Senior Seminar: Computer-Mediated Communication in Organizations	3	60026	\$330
COMPUTER SCIENCE						
CSCI	2830	640	Special Topics: Social, Ethical and Professional Issues in Computer Science	1	60028	\$110
CSCI	2830	650	Special Topics: Social, Ethical and Professional Issues in Computer Science	1	60030	\$110
ECONOMICS						
ECON	2010	640	Principles of Microeconomics	4	60032	\$440
ECON	2010	650	Principles of Microeconomics	4	60034	\$440
ECON	2020	640	Principles of Macroeconomics	4	60036	\$440
ECON	2020	650	Principles of Macroeconomics	4	60038	\$440
ECON	3403	640	International Economics and Policy	3	60040	\$330
ECON	4111	640	Money and Banking Systems	3	60042	\$330
EDUCATION						
EDUC	4161	650	Children's Literature	3	60044	\$270
EDUC	4322	650	Literature for Middle School and Secondary School Teachers	3	60046	\$270

* SECTION LEGEND

65x = print based correspondence course

64x = online-self-paced course

58x = online, term-based course

INDEPENDENT LEARNING

Dept	Course Number	Section*	Course Title	Credit Hours	Call Number	Tuition
ENGLISH						
ENGL	1191	650	Introduction to Creative Writing	3	60050	\$270
ENGL	1260	650	Introduction to Women's Literature	3	60052	\$270
ENGL	1600	650	Masterpieces of American Literature	3	60054	\$270
ENGL	2021	650	Introductory Poetry Workshop	3	60056	\$270
ENGL	3000	650	Shakespeare for Nonmajors	3	60058	\$270
ENGL	3051	640	Intermediate Fiction Workshop	3	60060	\$330
ENGL	3051	650	Intermediate Fiction Workshop	3	60062	\$330
ENGL	3060	650	Modern and Contemporary Literature	3	60064	\$270
ENGL	3081	650	Intermediate Nonfiction Workshop: Travel Journal Writing	3	60066	\$270
ENGL	3553	650	Chaucer: The Canterbury Tales	3	60068	\$270
ENGL	3563	650	Shakespeare 1	3	60070	\$270
ENGL	3573	650	Shakespeare 2	3	60072	\$270
ENGL	3655	640	American Literature to 1860	3	60074	\$330
ENGL	3655	650	American Literature to 1860	3	60076	\$330
ENGL	3665	640	American Literature after 1860	3	60078	\$330
ENGL	3665	650	American Literature after 1860	3	60080	\$330
ENGL	4100	650	The English Language	3	60082	\$270
FINE ARTS						
FINE	1012	650	Drawing 1	3	60084	\$270
FINE	3637	650	Art for the Elementary Teacher	3	60221	\$270
GEOGRAPHY						
GEOG	1001	650	Environmental Systems 1: Climate and Vegetation	4	60086	\$360
GEOG	1011	650	Environmental Systems 2: Landscapes and Water	4	60088	\$360
GEOG	1992	640	Human Geographies	3	60090	\$330
GEOLOGY						
GEOL	1010	640	Introduction to Geology 1	3	60092	\$330
GEOL	1010	650	Introduction to Geology 1	3	60094	\$330
GEOL	1020	650	Introduction to Geology 2	3	60096	\$270

Additional distance learning courses are available through the CATECS program on page 16.

Dept	Course Number	Section*	Course Title	Credit Hours	Call Number	Tuition
HISTORY						
HIST	1010	640	Western Civilization 1 - Antiquity to the 16th Century	3	60098	\$330
HIST	1010	650	Western Civilization 1 - Antiquity to the 16th Century	3	60100	\$330
HIST	1015	650	History of the United States to 1865	3	60102	\$270
HIST	1020	640	Western Civilization 2 - 16th Century to the Present	3	60104	\$330
HIST	1020	650	Western Civilization 2 - 16th Century to the Present	3	60106	\$330
HIST	1025	650	History of the United States since 1865	3	60108	\$270
HIST	2117	640	History of Colorado	3	60110	\$330
HIST	2117	650	History of Colorado	3	60112	\$330
HIST	4217	650	The American West in the Nineteenth Century	3	60114	\$270
HIST	4227	650	The American West in the Twentieth Century	3	60116	\$270
HIST	4733	640	The Russian Revolution and the Soviet Regime	3	60118	\$330
JOURNALISM						
JOUR	3771	640	Mass Communication History	3	60120	\$330
KINESIOLOGY AND APPLIED PHYSIOLOGY						
KAPH	3420	650	Nutrition, Health and Performance	3	60122	\$270
MATHEMATICS						
MATH	1011	650	Fundamentals and Techniques of College Algebra	3	60124	\$270
MATH	1021	650	Numerical and Analytical College Trigonometry	2	60126	\$180
MATH	1071	650	Finite Mathematics for Social Science and Business	3	60128	\$270
MATH	1081	650	Calculus for Social Science and Business	3	60130	\$270
MATH	1300	650	Analytic Geometry and Calculus 1	5	60132	\$450
MATH	2300	650	Analytic Geometry and Calculus 2	5	60134	\$450
MUSIC						
EMUS	1081	650	Basic Music Theory	3	60048	\$270
PHILOSOPHY						
PHIL	1000	650	Introduction to Philosophy	3	60139	\$270
PHIL	1100	650	Ethics	3	60141	\$270
PHIL	1600	650	Philosophy and Religion	3	60143	\$270
PHIL	4040	650	Twentieth-Century Philosophy	3	60145	\$270
POLITICAL SCIENCE						
PSCI	1101	650	The American Political Systems	3	60147	\$270
PSCI	2223	650	Introduction to International Relations	3	60149	\$270

* SECTION LEGEND

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INDEPENDENT LEARNING

Dept	Course Number	Section*	Course Title	Credit Hours	Call Number	Tuition
PSYCHOLOGY						
PSYC	1001	650	General Psychology	3	60151	\$270
PSYC	2012	640	Biological Psychology 1	3	60153	\$330
PSYC	2012	650	Biological Psychology 1	3	60155	\$330
PSYC	2022	650	Biological Psychology 2	3	60157	\$270
PSYC	2303	650	Psychology of Adjustment	3	60159	\$270
PSYC	2606	650	Social Psychology	3	60161	\$270
PSYC	3101	640	Statistics and Research Methods in Psychology	4	60163	\$440
PSYC	3101	650	Statistics and Research Methods in Psychology	4	60165	\$440
PSYC	4303	650	Abnormal Psychology	3	60167	\$270
PSYC	4456	650	Psychology of Personality	3	60169	\$270
PSYC	4511	650	History of Psychology	3	60171	\$270
PSYC	4684	640	Developmental Psychology	3	60173	\$330
PSYC	4684	650	Developmental Psychology	3	60175	\$330
SOCIOLOGY						
SOCY	1001	650	Analyzing Society	3	60177	\$270
SOCY	1016	650	Sex, Gender and Society 1	3	60181	\$270
SOCY	4014	641	Criminology	3	60223	\$330
SOCY	4014	650	Criminology	3	60185	\$330
SOCY	4025	640	Conflict Management in Social Systems	3	60187	\$330
SOCY	4086	641	Family and Society	3	60189	\$330

* SECTION LEGEND

65x = print based correspondence course

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58x = online, term-based course

SUMMER 2001 TERM-BASED WEB COURSES

**Topics in Writing:
Catcher in the Rye
UWRP 3020-3**

Students choose an essay, abstract its argument, analyze it, and agree or disagree with the author. They thus learn the principal modes of academic rhetoric: description, analysis, and argument. Approved for arts and sciences core curriculum: written communication. Course available via WWW only. Internet-ready computer and SLIP/PPP connection or online service required.

Section 584 Call No. 60216
From: June 4, 2001
To: August 10, 2001
Instructor: Lynn Gingrass, M.A.
Tuition: \$452

**Writing on Business and Society
UWRP 3040-3**

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 non-technical audiences. Classes are conducted as workshops. Prerequisite: junior standing. Course intended for business majors and minors. Approved for arts and sciences core curriculum: written communication. Course available via WWW only. Internet-ready computer and SLIP/PPP connection or online service required.

Section 584 Call No. 60213
From: June 4, 2001
To: July 6, 2001
Instructor: Amy Goodloe, Ph.D.

Section 585 Call No. 60214
From: July 10, 2001
To: August 10, 2001
Instructor: Anne Bliss, Ph.D.

Section 586 Call No. 60215
From: July 10, 2001
To: August 10, 2001
Instructor: Anne Bliss, Ph.D.

Tuition: \$452

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 from Independent Learning Programs or on the World Wide Web: 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 \$80 per course. Syllabus and text 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 4355 Twelfth Grade English 1
 HENG 4455 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 3257 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 0156 Health Science 1
 HSCI 0256 Health Science 2
 HSCI 2556 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 2157 World Geography 1
 HSST 2257 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 3857 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
 303-492-8757 (toll free, 800-331-2801)

C A T E C S (Center for Advanced Training in Engineering and Computer Science)

CATECS offers professionals a way to continue their education at a distance from campus:

- Graduate engineering courses delivered to your worksite via live microwave TV broadcasts with two-way audio and via videotape.
- Master's degree programs and some certificate programs are available in Aerospace Engineering, Computer Science, Electrical and Computer Engineering, Engineering Management and Telecommunications.
- Courses offered during the semester 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.

TERM A (JUNE 4-JULY 6, 5-WEEK SESSION)

Telecommunications

TLEN 5300	Telecommunications Theory & Application <i>Help Session</i>	Mercer	7:30-9:05 a.m. 9:15-10:15 a.m.	M-F TR
TLEN 5832	Engineering Economics	Savage	3:15-4:50 p.m.	M-F

SPECIAL TERM (JULY 10-AUGUST 3, 4-WEEK SESSION)

Civil Engineering

CVEN 5246	Engineering Contracts	Brown	2:30-5 p.m.	MTWR
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TERM C (JUNE 4-JULY 27, 8-WEEK SESSION)

Engineering Management

EMEN 5042	Methods for Quality Improvement	Andersen	9:30 a.m.-12 p.m.	MW
EMEN 5050	Leadership and Management	Micucci	9:30 a.m.-12 p.m.	TR

TERM E (JUNE 4-JULY 13, 6-WEEK SESSION)

Telecommunications

TLEN 5340 (Tape replay only, no broadcast)	Digital Telecommunications Networks <i>Help Session</i>	Thompson	7:30-10 a.m. 10-11 a.m.	MWF M
TLEN 5350 (Tape replay only, no broadcast)	Satellite Communications <i>Help Session</i>	Mitchell	10:30 a.m.-12:30 p.m. 9:30-10:30 a.m.	M-F W
TLEN 5500 (Tape replay only, no broadcast)	Cable TV <i>Help Session</i>	Bardsley	1:15-2:30 p.m. 2:35-3 p.m.	M-F TR
TLEN 5500 (Web Format)	Cable TV	Bardsley		

HOW TO REGISTER FOR CATECS COURSES

Registration for Summer 2001 Courses: May 1-18

Late Registration: May 19-June 8

1. Complete the Registration Form available from our web site at www.colorado.edu/CATECS or from the CATECS Office at 303-492-6331.
2. Mail, fax or bring your registration form to CATECS (do not both fax and mail your form). If faxing, call the same day to confirm receipt.
3. You will receive a confirmation packet by mail within two weeks of receipt.
4. Call the CU Book Store about three weeks prior to the first class to verify the correct text(s) and place your order: 800-255-9168 or 303-492-3444 or online at cubooks@colorado.edu.
5. Tuition for all CATECS courses is \$1,200 per course.



ADDITIONAL CREDIT PROGRAMS

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.



Registration for fall semester begins Friday, August 24 and classes begin Monday, August 27. Call 303-492-5148 for more information or visit the ACCESS web site at www.colorado.edu/conted/access.htm

SUMMER SESSION

Summer Session on the Boulder campus is special. Over 500 classes allow you to complete requirements and explore new subjects. Classes are smaller, more relaxed and more personal. You have the opportunity to take classes in a variety of formats and have time for other activities. We welcome visiting high school students, undergraduates, graduate students, and others to join us in Boulder for Summer Session.



For more information on summer session call 303-492-5148 or visit the web site at www.colorado.edu/sacs/summer to request a Summer Session catalog.

HIGH SCHOOL CONCURRENT PROGRAM

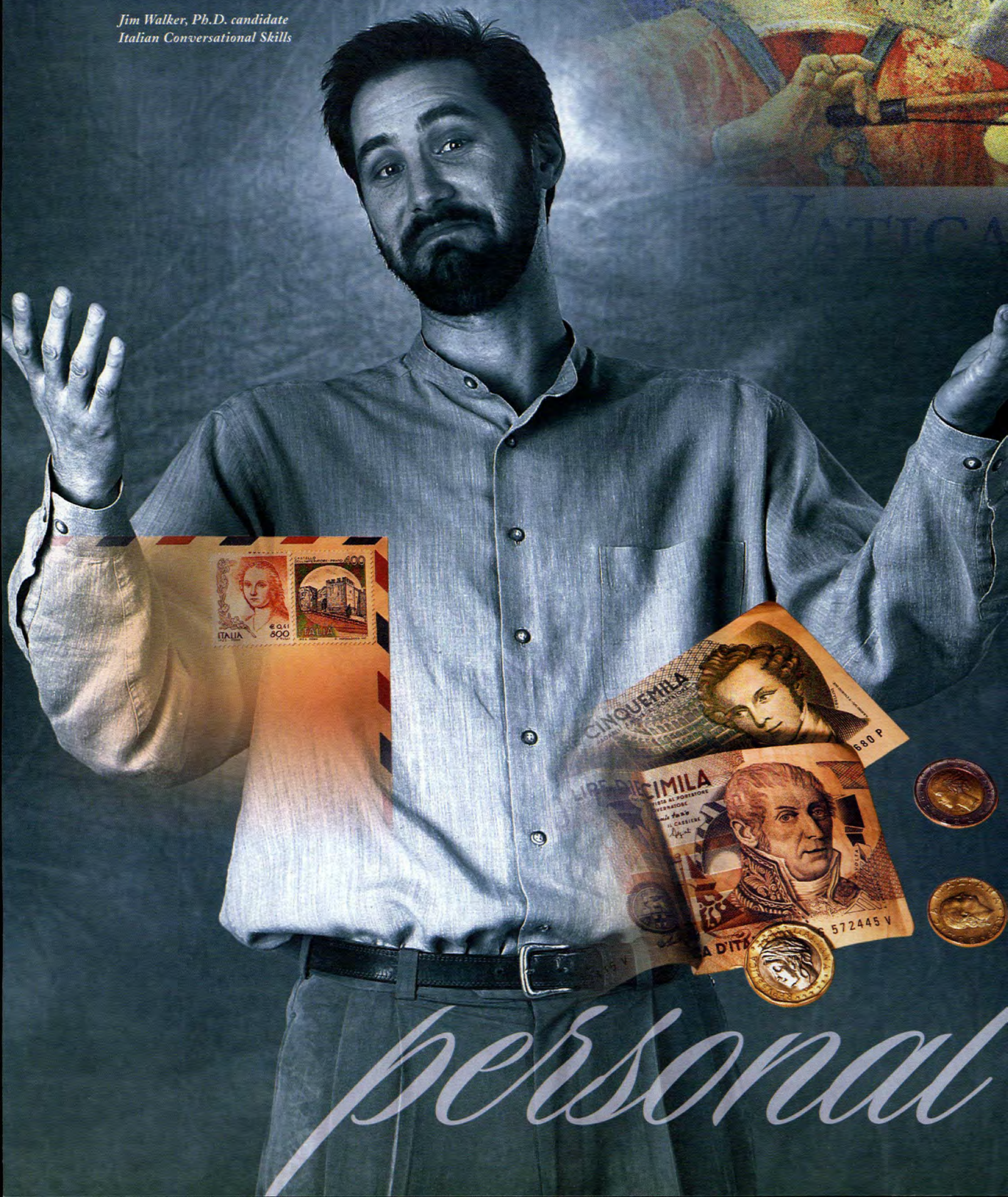
If you are a high school student interested in the challenge of university coursework, you may enroll in Summer Session 2001 or Boulder Evening credit courses at the University of Colorado at Boulder. In addition, you may be able to use the credit you earn toward high school graduation requirements and 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 2001 courses at www.colorado.edu/sacs/summer

During the Fall and Spring semesters, high school juniors and seniors may request tuition reimbursement from their school district for the successful completion of up to two university courses each term. You must also notify your counselor of your intent to enroll at least two months prior to the beginning of the term. You may register for main campus courses through the ACCESS (Available Credit Courses for Eligible Special Students) Program or enroll in Boulder Evening credit courses. Call 303-492-5148 for an application and more information or visit the High School Concurrent web site at www.colorado.edu/conted/hsconcur.htm



"Learning another
language is learning
about people."

*Jim Walker, Ph.D. candidate
Italian Conversational Skills*



personal

PERSONAL ENRICHMENT

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. What's your passion? What's your pleasure?

- 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 is 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.

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 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

Scholarships

Nondegree students who are 25 years of age or older and who are not admitted to the University are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. May 14 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/cewww/scholarinfo.html

Faculty/Staff Registration

Permanent, full-time CU-Boulder faculty and staff are eligible for a 25% discount off tuition. Proof of appointment is required to receive this discount. Call 303-492-5148 for more information.

Jim Walker loves the spirit of Italy, and he enjoys giving his students the "key" to discovering its charms – Conversational Italian. He says, "Language is about people. Learning a new language enables you to connect with people you could never get to know otherwise. When you can communicate with them on their terms, you begin to see how they think. Different cultures think differently, and learning to look at the world through the eyes of another culture will inevitably broaden your worldview." Jim appreciates the enthusiasm of Continuing Education students. "They already are favorably oriented towards Italian and learning. That makes my job easy and fun."

enrichment

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FINE ARTS

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

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FOREIGN LANGUAGES

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

23

THEATRE

- Behind the Scenes! Colorado Shakespeare Festival
- Acting Basics

23

WRITING

- How to Write Magazine Articles...and Get Them Published
- Creative Writing
- Travel Writing

PERSONAL ENRICHMENT

FINE ARTS

Fearless Basic Photography
NCFA 001

This is a how-to course for beginning photographers. Come prepared to have fun while learning how to operate your 35mm camera. We will cover lens, film, accessories, exposure, composition, and technique. You will discover how easy it is to take great photographs. Participants in the class will be given photo assignments and encouraged to engage in critiques of class work. Bring your 35mm camera (any variety) and enthusiasm for learning a new skill.

Mia Semingson, M.F.A. in photography from CU-Boulder, has taught photography at the college level since 1996. She is currently teaching photography at CU-Boulder and has exhibited her work nationally and internationally.

Section 100: Tuesdays, May 22-June 26, 6:30-8:30 p.m. Economics 13. 6 sessions. \$120.

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 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 28-August 2, 7:30-9:30 p.m. Economics 205. 6 sessions. \$180.

Although Jim Downton has been painting for ten years, he felt the need to go back to the basics and decided to take **Introduction to Oil Painting**. He says, "When you want to develop a talent, it's important to seek an instructor. A skilled teacher can save you days or even weeks of trouble and can help you accelerate your development in that field." Jim's insight comes from years of experience. He is a professor of Sociology at CU and teaches **Human Development and Creativity**. "I teach people the importance of getting coaching, so I always seek it myself."

Figure Drawing
NCFA 005

This course explores the fundamentals of drawing the human figure. The activities are divided into eight learning units. The beginning of the course explores various tools and mark making within the realm of black and white. Students will add to their 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. Call 303-492-5148 for a supply list.

Sandy Lane, M.F.A. from CU-Boulder, exhibits her work internationally and is a member of the EDGE gallery. She teaches drawing, painting, print making, and computer imaging to students of all ages.

Section 100: Thursdays, June 7-July 26, 7-9 p.m. Fine Arts N298. 8 sessions. \$160.

Water Media
NCFA 009

This class is designed to introduce students to a variety of watercolor applications. Discussions focus on understanding color and developing the composition and techniques. Students explore watercolor as a medium to record visual information in their journal as well as in finished work. The class examines a variety of resources such as the still life, human figure, and photograph.

Sandy Lane, M.F.A. from CU-Boulder, exhibits her work internationally and is a member of the EDGE gallery. She teaches drawing, painting, print making, and computer imaging to students of all ages.

Section 100: Mondays, June 4-July 23, 7-9 p.m. Fine Arts N298. 8 sessions. \$160.

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!

Kimberlee Sullivan, M.F.A. in Painting and Drawing from CU-Boulder, is an Associate of the Rocky Mountain Women's Institute and a current member of the EDGE Gallery.

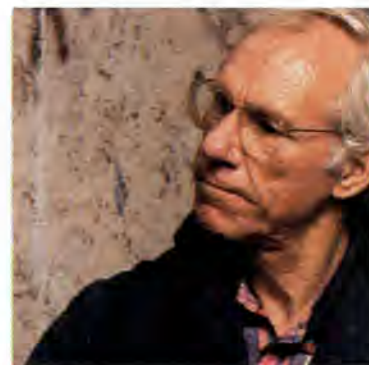
Section 100: Wednesdays, June 6-July 18 (no class July 4), 7-9 p.m. Fine Arts N298. 6 sessions. \$120.

Introduction to Oil Painting
NCFA 028

In this introductory course, students will gain an understanding of fundamental color theory and basic oil painting materials and other methods. 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. Students will receive a materials list upon registration. Please bring all materials to the first class meeting. No previous painting experience is necessary.

Christina Craigo, M.F.A. 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 5-July 24, 6:30-8:30 p.m. Fine Arts N103. 8 sessions. \$160.



PERSONAL ENRICHMENT

FOREIGN LANGUAGES

Chinese: Conversational Skills for Advanced Beginners NCFL 208

For students who already have strong reading skills of either pinyin or zhuyin fuhao, this course continues the development of speaking and reading skills that are geared toward everyday life situations.

Huicong Zhang is a graduate student in Chinese and is a native speaker.

Section 100: Wednesdays, June 6–August 1 (no class July 4), 6:30–8:30 p.m. Hellems 255. 8 sessions. \$160.

French: Beginning Conversational Skills NCFL 100

Designed for students with little or no knowledge of French, this course covers grammar but emphasizes conversational skills. Cultural aspects of French life and practical conversation for travelers will also be covered. Text, *Parlons Français I*, available at the CU Bookstore.

Instructor to be announced.

Section 100: Mondays, June 4–July 23, 7–9 p.m. Hellems 247. 8 sessions. \$160.

French: Conversational Skills for Advanced Beginners NCFL 200

This continuation of Beginning French is designed for students who are able to use the present tense. Increased vocabulary and speaking skills are stressed. Required textbook, *Vis a Vis*, is available at the CU Bookstore.

Instructor to be announced.

Section 100: Thursdays, June 7–July 26, 7–9 p.m. Hellems 241. 8 sessions. \$160.

Computer art courses available through the Computer Applications program, page 41.

Italian: Beginning Conversational Skills NCFL 102

This course examines the basics of Italian conversational grammar as well as various aspects of modern Italian culture and the Italian way of life. Participants will learn the elements of the language, view videos, and hold open discussions. Required text, *Italianissimo I*, available at the CU Bookstore.

Jim Walker, Ph.D. candidate, has lived and studied in Venice and has been teaching Italian for the last five years.

Section 100: Tuesdays, June 5–July 24, 6–8 p.m. Hellems 255. 8 sessions. \$160.

Italian: Conversational Skills for Advanced Beginners NCFL 202

Review basic grammar concepts introduced in Beginning Italian as well as expand on vocabulary and expressions essential for conversational fluency. The course will continue to integrate aspects of modern Italian life and culture. Required text, *Italianissimo I*, available at the CU Bookstore.

Jim Walker, Ph.D. candidate, has lived and studied in Venice and has been teaching Italian for the last five years.

Section 100: Thursdays, June 7–July 26, 6–8 p.m. Hellems 255. 8 sessions. \$160.

Japanese: Beginning Conversational and Written Skills NCFL 104

We stress polite, practical, and colloquial Japanese in order to build a foundation of survival skills and understand how the language works. Reading simple signs and texts are introduced.

Minori Murata is a native of Japan and teaches Japanese language courses at CU-Boulder.

Section 100: Tuesdays and Thursdays, June 5–July 12, 6–7:30 p.m. Hellems 263. 12 sessions. \$180.

Spanish: Beginning Conversational Skills NCFL 103

Basic but lively conversational Spanish for travelers. We stress practical vocabulary. Required text, *Getting Along in Spanish*, available at the CU Bookstore.

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

Section 101: Mondays and Wednesdays, June 4–27, 7–9 p.m. Hellems 245. 8 sessions. \$160.

Wendy Mendez is a graduate student in Spanish at CU-Boulder and has taught high school Spanish in New York. She is a native of the Dominican Republic.

Section 102: Tuesdays and Thursdays, June 5–28, 6:30–8:30 p.m. Hellems 247. 8 sessions. \$160.

Spanish: Conversational Skills for Advanced Beginners NCFL 203

Build vocabulary, learn the past tense, and review grammar to develop accuracy and proficiency in the use of the language. Prerequisite: Beginning Spanish or equivalent. Required text, *Getting Along in Spanish*, available at the CU Bookstore.

Wendy Mendez is a graduate student in Spanish at CU-Boulder and has taught high school Spanish in New York. She is a native of the Dominican Republic.

Section 100: Mondays and Wednesdays, June 4–27, 6:30–8:30 p.m. Hellems 271. 8 sessions. \$160.

Spanish: Intermediate Conversational Skills NCFL 303

An opportunity to build vocabulary and conversational ability and address cultural and social aspects. Prerequisite: Beginning Spanish or equivalent. Required text, *Pasajes: Lengua*, available at the CU Bookstore.

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

Section 100: Thursdays, June 7–July 26, 7–9 p.m. Hellems 271. 8 sessions. \$160.

THEATRE

Behind the Scenes! Colorado Shakespeare Festival NCTH 001

Come join us for a behind the scenes peek at the plays and productions of the 2001 Colorado Shakespeare Festival. Meet CSF actors and artists for backstage tours and informal pre-show discussions of the plays, then stay for the show. This year we offer *The Two Gentlemen of Verona*, *King Lear*, *As You Like It*, and *Queen Margaret* (an adaptation of *Henry VI*, parts I, II and III). Ticket price is included in the tuition so there will be no refunds.

Kate Pagel is currently pursuing her Ph.D. in History/Theory of Theatre at CU-Boulder and has spent the past decade working onstage, back stage, and in the classroom. She is the Educational Programs Manager for the Colorado Shakespeare Festival.

Section 101: *As You Like It* Wednesday, July 25, 6-8 p.m. Hellems 220. 1 session. \$50.

Section 102: *Queen Margaret* Wednesday, August 1, 6-8 p.m. Hellems 220. 1 session. \$50.

Section 103: *Two Gentlemen of Verona* Wednesday, August 8, 6-8 p.m. Hellems 220. 1 session. \$50.

Section 104: *King Lear* Wednesday, August 15, 6-8 p.m. Hellems 220. 1 session. \$50.

Additional writing courses are available through the Boulder Evening program, page 6.



About six months ago Julia Bright quit her job to become a professional painter. She's taking **Introduction to Oil Painting** because she wants to dialogue with other painters. "As a painter, you usually work by yourself. There's no exchange of ideas, and the only response you get comes after the work is finished." Julia wanted to get feedback "in-process" from a professional point of view. "It's great to get informed critiques from people who know the rules of painting and technique. They are better able to identify my strengths and weaknesses when I'm stumped."

Acting Basics NCTH 017

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

Beth Osnes, Ph.D. in Theater, is an instructor, performer and director.

Section 100: Mondays, June 4-July 9, 6:30-8:30 p.m. Economics 2. 6 sessions. \$120.

WRITING

How to Write Magazine Articles...and Get Them Published NC W 005

From sure-to-sell query letters to sure-to-happen publication, learn all the steps to successful magazine article writing and sales. We will cover what editors look for, query letters, catchy openings, how to write an organized yet creative article, and finally how to market the finished product. The instructor also works individually with students' articles.

Nancy Rasmussen has published over 50 articles in national and local publications and has taught magazine article writing for 10 years. She currently writes and proofreads for the CU-Boulder Alumni magazine "The Coloradan".

Section 100: Mondays, June 11-July 2, 6:30-8:30 p.m. Hale 240. 4 sessions. \$80.

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 and conditioned to hit your stride with wording, rhythm, and form; and supported by a friendly, close-knit group of peers with a similar interest? Join us in this refreshing pursuit, and let's see just what you can do with your creative powers – whether they be known, or yet to be discovered. We'll look at the basics, of course, but we'll also engage in many diverse and interesting exercises of the imagination. All levels of writers are enticed to share in this experience.

John Quinn, M.A. in English from CU-Boulder, is a professional writer, instructor, and artist who is published both locally and internationally.

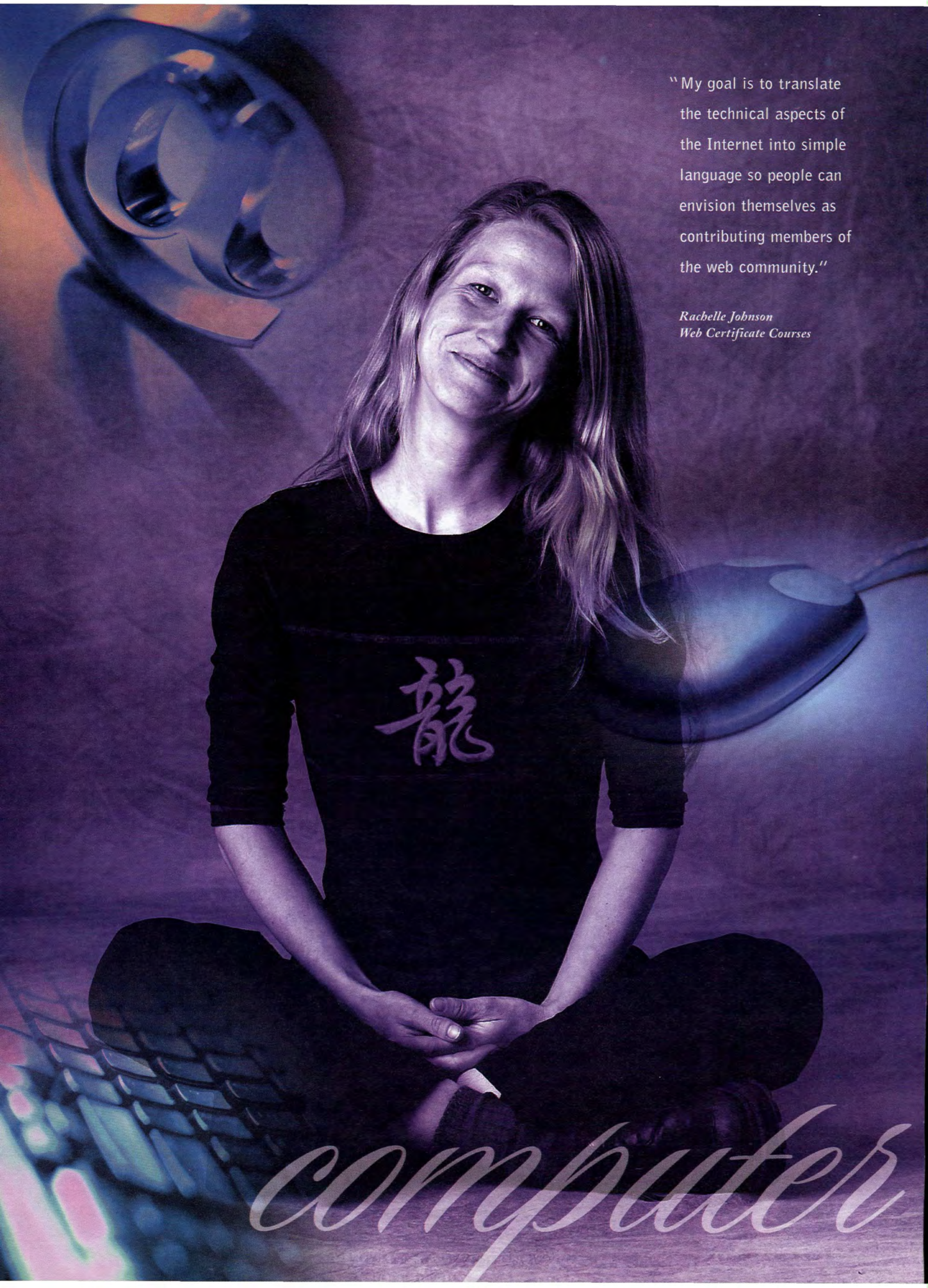
Section 100: Thursdays, June 7-July 12, 6-8:30 p.m. Hale 260. 6 sessions. \$150.

Travel Writing NC W 088

Whether you want to enhance your traveling experience or pay for your trip, this class will teach you to write travel articles for magazines and newspapers. Learn about different types of travel articles, how to find the right idea, how to write the article's lead and conclusion, as well as how to construct effective sidebars, take good notes, do the research and get helpful photographs. Study the works of published names in travel writing for a greater appreciation of this specialized form of writing. Through homework assignments, students will receive ongoing instructor feedback.

Su Wright, B.S., 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 to Fodor's Travel Guides and is under contract to write travel guidebooks.

Section 100: Thursdays, May 24-June 14, 6:30-8:30 p.m. Hale 240. 4 sessions. \$80.



“My goal is to translate the technical aspects of the Internet into simple language so people can envision themselves as contributing members of the web community.”

Rachelle Johnson
Web Certificate Courses

computer

COMPUTER APPLICATIONS

COMPUTERS ARE BECOMING *more and more important in our everyday life: for research, communication, planning and record keeping, creative endeavors, or just for keeping in touch with family and friends. Learn how to do what you need to do better, faster and more easily. We offer top-notch instruction by professionals who are experts in their fields, as well as certificate programs in Network Administration, Programming and Web Site Design. Our program can help you:*

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

GENERAL COURSE INFORMATION

Prerequisites

Required prerequisites are listed at the end of each course description.

The prerequisite(s) must 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

All courses are non-credit, however (S)atisfactory or (U)nsatisfactory grades will be issued by the instructor at the end of the course. Grades are determined by the student's class attendance (at least 75% of class attendance is needed in order to receive an S grade) and/or other factors such as the student's understanding of course material, homework assignments and quizzes.

If you are working toward a certificate in Computer Applications, Programming, Network Administration, or Web Site Design, you must receive a satisfactory grade in all the courses that apply toward your certificate. If you receive an unsatisfactory grade and wish to obtain a certificate, you must take the course over again and obtain a satisfactory grade.

Textbooks

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

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

Refer to the map on page 47 for other course locations.

Drop Deadlines and Refund Policy

Once you enroll, it is your responsibility to attend the course or drop from it in a timely manner. To receive a refund, you must drop the course before it begins. **Once the course begins, no refund will be issued** as we will not be able to replace your seat in class.


Course Cancellations

Courses may be cancelled due to low enrollment. To reduce the risk of a course being cancelled, we ask all students to please register at least one week prior to the first class meeting.

Faculty/Staff Discounts

Permanent full-time CU-Boulder faculty and staff are eligible for a 25% tuition discount. A copy of your current employment record is required to receive this discount. Call 303-492-5148 for more information.

Notes

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

If you have any other questions, please call the Division of Continuing Education at 303-492-5148, or outside the Denver Metro area, 1-800-331-2801.

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

Plato reasoned that learning is remembering. If the learner remembers, then the teacher reminds. Rachelle Johnson, a true pioneer in web design, says her goal is to become the "reminder" when she teaches web classes. She realizes that people are intimidated by the Web because they think they have nothing to contribute to it. Rachelle disagrees with this belief. "The Web is just another medium. I try to reduce the overwhelming feelings and fears people have about it." She does this by helping her students "remember" the skills they already have and by suggesting how they can implement their skills in the web medium.

applications

COMPUTER APPLICATIONS

CERTIFICATE PROGRAMS

The Computer Applications Program offers three certificate programs*: Network Administration, Web Site Design and Programming. 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. You may substitute up to two courses only.** For a substitution request, complete a form at www.colorado.edu/conted/cpsub.htm and send it to the Computer Applications Program, University of Colorado at Boulder, Division of Continuing Education, 178 UCB, Boulder, CO 80309-0178. You may also e-mail us at cecas@colorado.edu.

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

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

** Please note that the certificate in Computer Applications has been discontinued. If you started this certificate prior to Summer 2001, you may proceed with completing the requirements. However, you should try to complete the requirements by the end of the summer term as there is no guarantee that the courses for this certificate will be offered later. Please contact the Computer Applications Program at 303-492-6596 or by e-mail at cecas@colorado.edu if you have any questions or concerns.*

CERTIFICATE IN NETWORK ADMINISTRATION

For this certificate, you must complete the required courses in one of the two tracks (Windows/Intel or UNIX), the operating systems courses, the required administrative course, an elective administrative course, a programming course and a database course.

A. Choose One of the Following Tracks

1. Windows/Intel Track (both courses in this track are required)

CACS 220 Introduction to Networks

CACS 321 Network Administration

2. UNIX Track (both courses in this track are required)

CACS 211 Introduction to UNIX

CACS 311 Intermediate UNIX

- B. Operating Systems (both courses are required)

CACS 305 Computer Architecture

CACS 323 Network Operating Systems

- C. Required Administration Course

CACS 424 Wide Area Networking Topics

- D. Other Administration Courses (select one)

CACS 304 Introduction to Windows NT 4.0 Administration

CACS 404 Intermediate Windows NT 4.0 Administration

CACS 414 NetWare Administration

CACS 415 UNIX System Administration

- E. Programming Course

Choose one programming course. (See page 35 for course listings.)

- F. Database Course

Choose one database course. (See page 40 for course listings.)

CERTIFICATE IN WEB SITE DESIGN

This certificate is all hands-on. To ensure you get the most out of the course and can actively participate, please make sure you complete the prerequisites first. The courses are short and fast-paced, with minimal review of materials from the prerequisites.

For this certificate, you must complete the six required core courses, one multimedia course, one graphics course, one elective course and the capstone Web Site Design Project course.

A. Required Core Courses

All five courses listed below are required and must be taken in sequence. You must complete the first course in the sequence before taking the second and so on.

1st - CACS 331 Internet Applications

2nd - CACS 332 Introduction to HTML

3rd - CACS 432 Intermediate HTML

4th - CACS 532 Advanced HTML

5th - CACS 336 Introduction to JavaScript

- B. Other Required Core Course. (Reminder: Prerequisite(s) must be completed first.)

CACS 334 Design Techniques for Web Sites

- C. Required Multimedia Elective

Choose any one of the following courses.

(Reminder: Prerequisite(s) must be completed first.)

CAMC 291 Macromedia Director

CAMC 293 Multimedia Solutions

CACS 434 Using Macromedia DreamWeaver to Create Web Sites*

CACS 260 Motion Graphics Using Flash*

** Note: CACS 434 and CACS 260 cannot be used to fulfill the Multimedia Elective if you are already taking either of these courses to fulfill the Web Course Elective.*

D. Required Graphics Elective

Choose any one of the following courses. (Reminder: Prerequisite(s) must be completed first.)

CAPC 282 Photoshop for Windows, Level I

CAPC 382 Photoshop for Windows, Level II

CAPC 283 Illustrator for Windows, Level I

CAMC 282 Photoshop for Macintosh, Level I

CAMC 382 Photoshop for Macintosh, Level II

CAMC 283 Illustrator for Macintosh, Level I

E. Web Course Elective

Choose any one of the following courses. (Reminder: Prerequisite(s) must be completed first.)

CACS 237 Doing Business on the Internet

CACS 533 Advanced HTML 4.0 Update

CACS 233 Web Site Design with FrontPage 2000

CACS 436 JavaScript Language

CACS 434 Using Macromedia DreamWeaver to Create Web Sites*

CACS 260 Motion Graphics Using Flash*

* Note: CACS 434 and CACS 260 cannot be used to fulfill the Web Course Elective if you are already taking either of these courses to fulfill the Multimedia Elective.

F. Required Capstone Course

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

CACS 600 Web Site Design Project

CERTIFICATE IN PROGRAMMING

For this certificate, you must complete the required introductory courses in Option 1 or 2, the required courses in one of the two tracks (C++ or Java) and one elective Topics course.

As of Spring 2001, the C Track of our Programming Certificate was no longer offered. Those who have started the C Track Certificate will still be issued a certificate upon completion of the requirements. Please note that certain C++ courses may require a prerequisite in C programming. Those who need to take C programming courses may take them at another institution to replace the required prerequisite(s) for this certificate.

A. Required Introductory Courses

(Choose option 1 or 2)

Option 1: For absolute beginners (all courses are required)

CACS 240 Introduction to Programming

CACS 241 Introduction to Hands-on C++

CACS 341 Intermediate Hands-on C++

Option 2: For those who have had some programming experience (all courses are required)

CACS 242 Introduction to Application Programming

CACS 342 Intermediate Application Programming

B. Choose One of Two Tracks

1. C++ Track (all courses required)

CACS 244 Intro to Object-Oriented Programming in C++

CACS 344 Intermediate/Advanced C++ Programming

CACS 444 C++ Gotchas

Two Design Topics Courses

2. Java Track (all courses required)

CACS 247 Introduction to Object-Oriented Programming Using Java

CACS 347 Java for Object-Oriented Experienced Programmers

CACS 447 Advanced Java Programming Language Topics

CACS 448 Advanced Java Library

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

CACS 248 Java Servlets

CACS 348 GUI Programming in Java

CACS 360 Developing Web Applications in Java

CACS 450 Network-Embedded Java Programming

CACS 451 Enterprise Java Beans (EJB) One-day Overview

Design Topics

CACS 345 Object-Oriented Design Patterns

CACS 445 Object-Oriented Analysis and Design

Visual Basic Topics

CACS 245 Introduction to Hands-on Visual Basic Programming

CACS 350 Intermediate Hands-on Visual Basic Programming

Database Design Topics

CAPC 357 Database Design Concepts

CAPC 358 Relational Database Concepts and SQL Programming

COURSES BY START DATE

SUMMER 2001

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
THE COMPUTER SYSTEM					
Understanding Computers...Course descriptions begin on page 31					
Computer Literacy	CACS 100-100	06/05/2001	07/03/2001	6-9 p.m.	5
Computer Systems Overview	CACS 204-100	06/06/2001	06/27/2001	6-9 p.m.	4
Networks...Course descriptions begin on page 31					
Introduction to Networks	CACS 220-101	06/05/2001	06/26/2001	6-9 p.m.	4
Introduction to Networks	CACS 220-102	07/12/2001	08/02/2001	6-9 p.m.	4
Computer Architecture	CACS 305-100	07/18/2001	08/08/2001	6-9 p.m.	4
Network Administration	CACS 321-100	06/04/2001	06/14/2001	6-9 p.m.	4
Network Operating Systems	CACS 323-100	07/23/2001	08/02/2001	6-9 p.m.	4
Intro to Windows NT 4.0 Administration	CACS 304-100	07/10/2001	07/31/2001	6-9 p.m.	4
Wide Area Networking Topics	CACS 424-100	06/18/2001	06/25/2001	6-9 p.m.	3
Operating Systems...Course descriptions begin on page 32					
Computer Operating Systems	CACS 303-100	07/09/2001	07/19/2001	6-9 p.m.	4
Hands-On UNIX	CACS 312-100	07/11/2001	08/08/2001	6-9 p.m.	5
Introduction to UNIX (skip 7/3/01)	CACS 211-100	06/19/2001	08/07/2001	6-9 p.m.	7
The Internet...Course descriptions begin on page 33					
Internet Fundamentals	CACS 230-101	06/04/2001	06/04/2001	9 a.m.-4 p.m.	1
Internet Fundamentals	CACS 230-102	07/10/2001	07/10/2001	9 a.m.-4 p.m.	1
Doing Business on the Internet	CACS 237-100	06/04/2001	06/11/2001	6-9 p.m.	3
Internet Applications	CACS 331-101	06/05/2001	06/19/2001	6-9 p.m.	3
Internet Applications	CACS 331-102	06/16/2001	06/23/2001	9 a.m.-2:30 p.m.	2
Internet Applications	CACS 331-103	06/18/2001	07/02/2001	6-9 p.m.	3
Introduction to Hypertext Mark-up Language (HTML)	CACS 332-101	06/05/2001	06/26/2001	6-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CACS 332-102	06/09/2001	06/30/2001	9 a.m.-12 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CACS 332-103	06/09/2001	06/30/2001	1-4 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CACS 332-104	07/09/2001	07/30/2001	6-9 p.m.	4
Intermediate Hypertext Mark-up Language (HTML)	CACS 432-101	06/07/2001	06/21/2001	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CACS 432-102	07/10/2001	07/24/2001	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CACS 432-103	07/18/2001	08/01/2001	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CACS 432-104	07/23/2001	08/06/2001	6-9 p.m.	3
Advanced Hypertext Mark-up Language (HTML)	CACS 532-101	06/05/2001	06/26/2001	6-9 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CACS 532-102	06/25/2001	07/16/2001	6-9 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CACS 532-103	07/11/2001	08/01/2001	6-9 p.m.	4

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Hypertext Mark-up Language (HTML) (4.0) Update	CACS 533-100	07/26/2001	08/02/2001	6-9 p.m.	2
Design Techniques for Web Sites	CACS 334-101	06/14/2001	06/21/2001	6-9 p.m.	2
Design Techniques for Web Sites	CACS 334-102	06/28/2001	07/05/2001	6-9 p.m.	2
Design Techniques for Web Sites	CACS 334-103	07/11/2001	07/11/2001	9 a.m.-4 p.m.	1
Design Techniques for Web Sites	CACS 334-104	07/31/2001	08/07/2001	6-9 p.m.	2
DreamWeaver 4	CACS 434-101	06/09/2001	06/23/2001	1-5 p.m.	3
DreamWeaver 4	CACS 434-102	07/09/2001	07/19/2001	6-9 p.m.	4
DreamWeaver 4	CACS 434-103	07/17/2001	08/07/2001	9 a.m.-12 p.m.	4
Web Site Design with FrontPage 2000	CACS 233-100	07/19/2001	08/09/2001	9 a.m.-12 p.m.	4
Motion Graphics Using Flash 5	CACS 260-101	07/14/2001	08/04/2001	9 a.m.-12 p.m.	4
Motion Graphics Using Flash 5	CACS 260-102	07/14/2001	08/04/2001	1-4 p.m.	4
Introduction to JavaScript	CACS 336-101	06/06/2001	06/27/2001	6-9 p.m.	4
Introduction to JavaScript	CACS 336-102	06/09/2001	06/30/2001	9 a.m.-12 p.m.	4
Introduction to JavaScript	CACS 336-103	07/14/2001	08/04/2001	9 a.m.-12 p.m.	4
Introduction to JavaScript	CACS 336-104	07/14/2001	08/04/2001	1-4 p.m.	4
JavaScript Language	CACS 436-101	06/09/2001	06/23/2001	9 a.m.-4 p.m.	3
JavaScript Language	CACS 436-102	07/14/2001	07/28/2001	9 a.m.-4 p.m.	3
Web Site Design Project (skip 7/4/01)	CACS 600-100	06/06/2001	07/11/2001	6-9 p.m.	5
Programming...Course descriptions begin on page 35					
Introduction to Programming	CACS 240-100	06/12/2001	06/19/2001	9 a.m.-4 p.m.	5
Introduction to Hands-On C++	CACS 241-100	06/26/2001	07/02/2001	9 a.m.-4 p.m.	5
Intermediate Hands-On C++	CACS 341-100	07/07/2001	07/21/2001	9 a.m.-4 p.m.	3
Introduction to Application Programming	CACS 242-100	06/04/2001	06/28/2001	6-9 p.m.	8
Introduction to Hands-On Visual Basic Programming	CACS 245-100	06/04/2001	07/02/2001	6-9 p.m.	5
Intermediate Hands-On Visual Basic Programming	CACS 350-100	07/30/2001	08/06/2001	9 a.m.-4 p.m.	3
Object-Oriented Design Patterns	CACS 345-100	06/30/2001	06/30/2001	9 a.m.-4 p.m.	1
Object-Oriented Analysis and Design	CACS 445-100	06/08/2001	06/09/2001	9 a.m.-5 p.m.	2
Introduction to Object-Oriented Programming Using Java	CACS 247-100	06/04/2001	06/25/2001	6-9 p.m.	7
Java for O-O Experienced Programmers	CACS 347-100	07/09/2001	08/01/2001	6-9 p.m.	8
Network-Embedded Java Programming	CACS 450-100	06/16/2001	06/23/2001	9 a.m.-2:30 p.m.	2
Enterprise Java Beans (EJB) One-Day Overview	CACS 451-100	07/21/2001	07/21/2001	9 a.m.-4 p.m.	1
Java Servlets	CACS 248-100	07/14/2001	07/14/2001	9 a.m.-4 p.m.	1
Perl for Programmers	CACS 250-100	07/03/2001	07/31/2001	6-9 p.m.	5
XML (Extensible Markup Language)	CACS 330-100	07/09/2001	07/30/2001	6-9 p.m.	4

C O U R S E S B Y S T A R T D A T E

Course No./ Course Title	Start Section	End Date	Date	Total Time	Sessions
THE PC SYSTEM					
Windows 95 Level I	CAPC 203-100	06/07/2001	06/07/2001	9 a.m.-4 p.m.	1
Windows 98 Level I	CAPC 205-100	07/09/2001	07/09/2001	9 a.m.-4 p.m.	1
Word Processing...Course descriptions begin on page 39					
Word 97 (8.0) Level I	CAPC 213-100	07/17/2001	07/24/2001	9 a.m.-2:30 p.m.	2
Spreadsheets...Course descriptions begin on page 39					
Excel 97 (8.0) Level I	CAPC 234-100	07/16/2001	07/16/2001	9 a.m.-4 p.m.	1
Excel 2000 (9.0) Level I	CAPC 235-100	07/11/2001	07/11/2001	9 a.m.-4 p.m.	1
Excel 97 (8.0) Level II	CAPC 334-100	07/23/2001	07/23/2001	9 a.m.-4 p.m.	1
Excel 2000 (9.0) Level II	CAPC 335-100	07/18/2001	07/18/2001	9 a.m.-4 p.m.	1
Databases...Course descriptions begin on page 40					
Access 97 (8.0) Level I	CAPC 255-100	06/14/2001	06/21/2001	9 a.m.-4 p.m.	2
Access 2000 (9.0) Level I	CAPC 256-100	07/12/2001	07/19/2001	9 a.m.-4 p.m.	2
Access 97 (8.0) Level II	CAPC 355-100	06/28/2001	06/28/2001	9 a.m.-4 p.m.	1
Access 2000 (9.0) Level II	CAPC 356-100	07/26/2001	07/26/2001	9 a.m.-4 p.m.	1
Database Design Concepts	CAPC 357-100	07/28/2001	08/04/2001	9 a.m.-4 p.m.	2
Relational Database Concepts and SQL Programming	CAPC 358-100	07/02/2001	07/30/2001	6-8 p.m.	9
Computer Graphics...Course descriptions begin on page 41					
Windows Computer Art	CAPC 280-100	06/09/2001	06/09/2001	9 a.m.-4 p.m.	1
Photoshop for Windows 98 (6.0) Level I	CAPC 282-101	06/06/2001	06/13/2001	9 a.m.-4 p.m.	2
Photoshop for Windows 98 (6.0) Level I	CAPC 282-102	06/18/2001	06/25/2001	9 a.m.-4 p.m.	2
Photoshop for Windows 98 (6.0) Level I	CAPC 282-103	07/24/2001	07/31/2001	9 a.m.-4 p.m.	2
Photoshop for Windows 98 (6.0) Level II	CAPC 382-100	07/18/2001	07/25/2001	9 a.m.-4 p.m.	2
Illustrator for Windows 98 (8.0) Level I	CAPC 283-100	06/20/2001	06/27/2001	9 a.m.-4 p.m.	2
Computer Aided Design...Course descriptions begin on page 42					
AutoCAD 2000 Level I	CAPC 261-100	06/04/2001	06/20/2001	6-9 p.m.	6
AutoCAD 2000 Level II	CAPC 361-100	07/23/2001	08/08/2001	6-9 p.m.	6
THE MACINTOSH SYSTEM					
Computer Graphics...Course descriptions begin on page 41					
Macintosh Computer Art	CAMC 280-100	06/06/2001	06/13/2001	6-9 p.m.	2
Photoshop for Macintosh (6.0) Level I (skip 7/4)	CAMC 282-100	06/20/2001	07/18/2001	6-9 p.m.	4
Photoshop for Macintosh (6.0) Level II	CAMC 382-100	07/28/2001	08/04/2001	9 a.m.-4 p.m.	2
Illustrator for Macintosh (8.0) Level I	CAMC 283-100	07/14/2001	07/21/2001	9 a.m.-4 p.m.	2
Multimedia...Course descriptions begin on page 42					
Macromedia Director (6)	CAMC 291-100	06/16/2001	06/23/2001	9 a.m.-4 p.m.	2
Multimedia Solutions	CAMC 293-101	06/04/2001	06/25/2001	6-9 p.m.	4
Multimedia Solutions	CAMC 293-102	06/07/2001	06/28/2001	6-9 p.m.	4

UNDERSTANDING COMPUTERS

**Computer Literacy
CAC 100**

Take the mystery out of basic computer jargon and learn start-up skills that will open the door to new opportunities. Learn concepts and terminology that will make successive computer courses easier to understand. An introductory lecture will prepare you for four hands-on labs on the Macintosh system and the personal computer (PC). The lab sessions will allow you to become familiar with basic desktop management and applications such as word processing, spreadsheets, and databases.

Pat Melton, B.A.

Section 100: Tuesday, June 5, 6-8 p.m., Tuesdays, June 12-July 3, 6-9 p.m. This section has one lecture, two Macintosh labs and two PC labs. First session, June 5, will be held in Humanities 1B70, June 12 and 19 will be held in Humanities 1B35 and June 26 and July 3 will be held in Humanities 1B45. 5 sessions. \$180.

**Computer Systems Overview
CAC 204**

Learn what you need to know to make informed decisions on computer systems. This course presents an extensive overview of many of the system hardware components you may need and the appropriate software to make them work. Topics include the computer (speed, memory, disk size, display, I/O, etc.), computer bus (ISA, VESA/VLB, PCI), printers (slow/fast, color or B/W, inkjet/laser), modems (14400/28800, computer/fax), networks (peer-to-peer, client-server), and multimedia. **Prerequisite:** CAPC 203 Windows 95 Level I or working knowledge of the Macintosh or equivalent.

Chris Mattson, B.S.

Section 100: Wednesdays, June 6-27, 6-9 p.m. 4 sessions. University Computing Center 127. \$230.

NETWORKS

**Introduction to Networks
CAC 220**


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 also presents an overview of current network systems available on both DOS-based and Macintosh-based systems from small to medium sized businesses. **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent.

Nate Abrens, B.A.

Section 101: Tuesdays, June 5-26, 6-9 p.m.

Section 102: Thursdays, July 12-August 2, 6-9 p.m.

All Sections: 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$260.

**Computer Architecture 
CAC 305**

This course introduces the fundamentals of computer architecture, providing an overview of the structure and operation of digital computers. It describes 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, especially PC's. It will take a generic approach to describing how these systems work rather than examining the details of specific implementations. **Prerequisite:** CACS 204 Computer Systems Overview or equivalent.

Dave Bodnar, M.S.

Section 100: Wednesdays, July 18-August 8, 6-9 p.m. 4 sessions. University Computing Center 123. \$230.

**Network Administration
CAC 321**

Lecture and lab. The lecture portion provides information 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. In lab, students learn troubleshooting techniques and how to solve and prevent network problems.

Prerequisite: CACS 323 Network Operating Systems or equivalent.

Shayn Smith, Ph.D., CNE

Section 100: Mondays and Thursdays, June 4-14, 6-9 p.m. 4 sessions. Mondays in University Computing Center 123 and Thursdays in University Computing Center 127. \$230.

**Network Operating Systems
CAC 323**

This course deals with the UNIX and Windows NT server operating systems. The lecture portion of the course compares and contrasts the components, functionality, and architecture of the UNIX and Windows NT server operating systems as well as the underlying network operating system support. In the lab portion, students learn about installing and configuring the network operating systems and how to use them as fully functional network servers.

Prerequisite: CACS 303 Computer Operating Systems or equivalent. **Required text:** *Using Networks*, Derfler.

Marc Lafavor, B.S.

Section 100: Mondays and Thursdays, July 23-August 2, 6-9 p.m. 4 sessions. Mondays in University Computing Center 123 and Thursdays in University Computing Center 127. \$230.



(Networks continued)

Introduction to Windows NT 4.0 Administration CACs 304

A technical hands-on course focusing on concepts necessary for installing and running Windows NT Workstation and Server in a simple small office environment. Topics include planning and installation, file systems and disks, application issues, printing, backups and performance tuning and optimization. **Prerequisites:** CACS 303 **Computer Operating Systems** and CACS 323 **Network Operating Systems** or equivalent. **Required text:** *Inside Windows NT Server 4*, 2nd edition, Heywood.

Bob Schmidt, M.A.

Section 100: Tuesdays, July 10-31, 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). \$440.

Wide Area Networking Topics CACs 424

In this lecture-based course you will view the Internet as one large WAN. Learn the various packet-switched technologies that make it work, such as PPP, ATM, xDSL, as well as older circuit-switched technologies. Transmission methods will also be covered, such as fiber optics and microwaves. Gain an understanding of the advantages and disadvantages of each technology. Case studies of real-world WAN topologies and the equipment (routers and switches) used to implement them will be examined.

Paul Welding, B.S.

Section 100: Mondays and Thursday, June 18-25, 6-9 p.m. 3 sessions. University Computing Center 123. \$220.



Bob Meyers is a lab coordinator for the General Chemistry department at CU. Computers were still science fiction when Bob was in college, and he finds it a bit challenging to keep up with technology today. He's taking a Visual Basic class to improve his ability to manage custom database applications at work. Bob enjoys taking Continuing Education classes and finds them quite useful and practical. "I've taken a lot of classes at CU over the past 20 years, and I always have a good learning experience."

OPERATING SYSTEMS

Computer Operating Systems CACs 303

This course deals with the major network client workstations. The lecture portion of the course compares and contrasts the components, functionality, and architecture of the Windows, Macintosh, Linux and UNIX workstation operating systems. In the lab portion, students learn about installing and configuring the operating systems and how to maintain them in fully functional workstations. **Prerequisite:** CACS 204 **Computer Systems Overview** or equivalent. **Required text:** *Crossing Platforms: A Macintosh/Windows Phrasebook*, Engst and Pogue.

Marc Lafavor, B.S.

Section 100: Mondays and Thursdays, July 9-19, 6-9 p.m. 4 sessions. Mondays in University Computing Center 123. Thursdays in University Computing Center 127. \$230.

Hands-On UNIX CACs 312

Learn the basics of the UNIX operating system for programming, Internet connectivity, and other daily tasks. The course covers UNIX fundamentals such as the file and directory structure, essential commands, editors and shells. Advanced topics include customization of the user environment, basic shell programming and an overview of the different versions of UNIX available on the market today. **Prerequisite:** CACS 100 **Computer Literacy** or equivalent.

James Lupo, Ph.D.

Section 100: Wednesdays, July 11-August 8, 6-9 p.m. 5 sessions. University Management Systems 001. \$380.

Introduction to UNIX CACs 211

This is a course for anyone who needs to use UNIX, program in its environment, manage users, or obtain sufficient knowledge to evaluate it. In this lecture course, fundamentals are covered, including few advanced topics history, the importance of different versions, files, directories, permissions, essential commands, editors, the Bourne and C shells, I/O redirection, pipes, command substitution, environment variables, powerful features of the C shell and a look inside the UNIX kernel. **Prerequisite:** CACS 100 **Computer Literacy** or equivalent.

Jon Budoff, B.S.

Section 100: Tuesdays, June 19-August 7 (skip July 3), 6-9 p.m. 7 sessions. University Computing Center 123. \$410.

Internet academic credit courses are available through the Independent Learning program, pages 11-14.



THE INTERNET

**Internet Fundamentals
CACs 230**

Learn what today's information SuperHighway, the Internet, offers. Topics include an overview of its history and technology, access providers and ways to join the Internet. Basic applications such as electronic mail, USENET news, finding and accessing information and the World Wide Web will be covered. **Prerequisite:** CACS 100 Computer Literacy or equivalent.

Lorraine Revelle, B.A.

Section 101: Monday, June 4, 9 a.m.-4 p.m.
University Computing Center 127.

Jeff Schatz, B.A.

Section 102: Tuesday, July 10, 9 a.m.-4 p.m.
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).

All Sections: 1 session. \$170.

**Doing Business on the Internet
CACs 237**

"E-commerce": Learn the fundamentals for promoting and marketing your business on-line. Topics include conceptualizing, planning, organizing and implementing a web based "store-front" distributed on the Internet. Case studies will be reviewed that demonstrate various strategies for successful management of security, payment, search listings, and software concerns as applied to marketing your product or service on the Web. **Prerequisite:** CACS 230 Internet Fundamentals or equivalent.

Paul Welding, B.S.

Section 100: Mondays and Thursday,
June 4-11, 6-9 p.m. 3 sessions. Humanities
1B45. \$210.

**Internet Applications
CACs 331**

There is more to the Internet than web sites! In this class, you will access and search FTP sites, transfer files to a host computer using FTP and log on to a host computer with telnet. Learn more about your web browser: how to set preferences, download and install plug-ins, organize bookmarks and copy images. Also, sign up for free web space and build your own web page using free software. **Prerequisite:** CACS 230 Internet Fundamentals or equivalent.

Rachelle Johnson

Section 101: Tuesdays, June 5-19, 6-9 p.m.
3 sessions.

Chris Mattson, B.S.

Section 102: Saturdays, June 16 and 23,
9 a.m.-2:30 p.m. 2 sessions.

Ginny Figlar, M.A.

Section 103: Mondays, June 18-July 2,
6-9 p.m. 3 sessions.

All Sections: Humanities 1B45. \$210.

**Introduction to Hypertext
Mark-up Language (HTML):
Formatting, Links, Lists
and Tables
CACs 332**

Learn how to create web pages and web sites. Topics include formatting tags, essential head tags, lists, links, images and tables. Coding techniques and tips for web site design are also covered. **Prerequisites:** CAPC 203 Windows 95 Level I and CACS 331 Internet Applications or equivalent. Proficiency with PCs and the Windows 95 operating system is necessary. An HTML reference book is recommended.

Susan Walanski, B.A.

Section 101: Tuesdays, June 5-26, 6-9 p.m.
University Computing Center 127.

Rachelle Johnson

Section 102: Saturdays, June 9-30,
9 a.m.-12 p.m. University Management
Systems 001.

Section 103: Saturdays, June 9-30, 1-4 p.m.
University Management Systems 001.

Ginny Figlar, M.A.

Section 104: Mondays, July 9-30, 6-9 p.m.
University Computing Center 127.

All Sections: 4 sessions. \$255.

**Intermediate Hypertext Mark-up
Language (HTML): Meta Tags,
Referencing and Frames
CACs 432**

This course builds on the skills learned in CACS 332 Introduction to HTML. Learn to code more meta tags; absolute, relative and base references; and frames. **Prerequisite:** CACS 332 Introduction to Hypertext Mark-up Language (HTML) or equivalent. You must be proficient with PCs and the Windows 95 operating system and able to implement all the skills covered in the Introduction HTML course with minimal assistance. An HTML reference book is recommended.

Joyce E. Evans, B.A.

Section 101: Thursdays, June 7-21, 6-9 p.m.
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).

Rachelle Johnson

Section 102: Tuesdays, July 10-24, 6-9 p.m.
University Computing Center 127.

Section 103: Wednesdays, July 18-August 1,
6-9 p.m. Humanities 1B45.

Karis Vail Schmidt, B.A.

Section 104: Mondays, July 23-August 6,
6-9 p.m. Humanities 1B45.

All Sections: 3 sessions. \$215.

(Internet continued)

Advanced Hypertext Mark-up Language (HTML) CACCS 532

This course builds on the skills learned in the Introduction and Intermediate HTML courses. Examine the "big picture" of web site design, creation and advertising. Learn to code forms, styles and style sheets.

Prerequisite: CACS 432 **Intermediate Hypertext Mark-up Language (HTML)** or equivalent. You must be proficient with PCs and the Windows operating system and able to implement all skills covered in the Introduction and Intermediate HTML courses to successfully complete this course. An HTML reference book is recommended.

Beth Sigren, B.S.

Section 101: Tuesdays, June 5-26, 6-9 p.m.
University Management Systems 001.

Joyce E. Evans, B.A.

Section 102: Mondays, June 25-July 16,
6-9 p.m. 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).

Section 103: Wednesdays, July 11-August 1,
6-9 p.m. University Computing Center 127.

All Sections: 4 sessions. \$255.

Advanced Hypertext Mark-up Language (HTML) (4.0) Update CACCS 533

Learn about the new version of HTML: HTML 4.0. This class covers new and revised HTML tags, attributes, and values as specified by the W3C. This class builds on the skills learned in all levels of the HTML courses. **Prerequisite:** CACS 532 **Advanced Hypertext Mark-up Language (HTML)** or equivalent. Students must be proficient with PCs and the Windows 95 operating system and able to implement the skills covered in all levels of the HTML courses with minimal assistance.

Beth Sigren, B.S.

Section 100: Thursdays, July 26 and
August 2, 6-9 p.m. 2 sessions. Humanities
1B45. \$180.

Design Techniques for Web Sites CACCS 334

Step out of the technical aspects of web page creation. Analyze navigational models.

Discuss basic design principles and color theory, how they apply to web sites, and how they are affected by a site's target audience.

Learn how to optimize image compression.

Prerequisite: CACS 331 **Internet Applications** or equivalent.

Beth Sigren, B.S.

Section 101: Thursdays, June 14 and 21,
6-9 p.m. 2 sessions. Humanities 1B45.

Section 102: Thursdays, June 28 and July 5,
6-9 p.m. 2 sessions. Humanities 1B45.

Rachelle Johnson

Section 103: Wednesday, July 11, 9 a.m.-4
p.m. 1 session. University Computing Center
127.

Section 104: Tuesdays, July 31 and August 7,
6-9 p.m. 2 sessions. University Computing
Center 127.

All Sections: \$180.

Using Macromedia DreamWeaver 4 to Create Web Sites CACCS 434

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. If you haven't seen DreamWeaver in action, this class is a must. **Prerequisite:** CACS 432 **Intermediate HTML** or equivalent.

William Busch

Section 101: Saturdays, June 9-23, 1-5 p.m.
3 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).

Jeff Braunstein, M.S.

Section 102: Tuesdays and Thursdays,
July 9-19, 6-9 p.m. 4 sessions. Humanities
1B45.

Tim Meehan

Section 103: Tuesdays, July 17-August 7,
9 a.m.-12 p.m. 4 sessions. University
Computing Center 127.

All Sections: \$285.

Web Site Design with FrontPage 2000 CACCS 233

Learn to develop a web presence with Microsoft's popular Web Authoring and Management tool. This class will take you from beginning to end, while covering the basics (including hyperlinks, navigation, image maps, text and graphic use, lists and tables) and moving to more sophisticated techniques (including creating interactive forms, frames, discussion boards, rollover buttons and utilizing the many wizards that FrontPage offers). The course will also cover in depth the powerful management tools available for easily maintaining and managing your site. **Prerequisites:** CAPC 203 **Windows 95/CAPC 205 Windows 98 and CACS 230 Internet Fundamentals** or equivalent.

Karis Vail Schmidt, B.A.

Section 100: Thursdays, July 19-August 9,
9 a.m.-12 p.m. 4 sessions. University
Computing Center 127. \$280.

Motion Graphics Using Flash 5 CACCS 260

Learn how to create dynamic, interactive "flash" movies for web applications. Techniques that will be covered include drawing objects, creating symbols, creating motion, tweening and simple interactivity. Homework projects will be assigned and due at the beginning of class. **Prerequisite:** CAMC 293 **Multimedia Solutions** or equivalent. **Required text:** *Flash 5: Creative Web Animation*, Derek Franklin and Brooks Patton.

William Busch

Section 101: Saturdays, July 14-August 4,
9 a.m.-12 p.m.

Section 102: Saturdays, July 14-August 4,
1-4 p.m.

All Sections: 4 sessions. University
Computing Center 127. \$285.

Introduction to JavaScript
CACS 336

Learn the fundamentals of programming using JavaScript. Topics include fundamental programming concepts such as variables, functions, and objects covered in a hands-on step-by-step fashion using JavaScript. Class will focus on the language in terms of extending the functionality of a web page. Class will prepare you for the CACS 436 JavaScript Language course and assumes no previous high-level programming experience. **Prerequisite:** CACS 532 Advanced HTML or equivalent.

Susan Walanski, B.A.

Section 101: Wednesdays, June 6-27, 6-9 p.m. University Management Systems 001.

Section 102: Saturdays, June 9-30, 9 a.m.-12 p.m. June 9-23, 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) and June 30, University Computing Center 127.

Section 103: Saturdays, July 14-August 4, 9 a.m.-12 p.m. University Management Systems 001.

Section 104: Saturdays, July 14-August 4, 1-4 p.m. University Management Systems 001.

All Sections: 4 sessions. \$255.



Kathryn Coleman recently changed careers. She's worked in the health care industry for 25 years and decided to switch her focus from management to tech support. During the transition, Kathryn has been taking Continuing Education classes through the Computer Applications Program. "CU provides the kinds of classes I need. It's given me a good foundation in network issues." Kathryn is currently taking a class in **Visual Basic**. She says it will give her the skills she needs to use Access at work. When she finishes this class, Kathryn will be eligible for the Certificate in Network Administration.

JavaScript Language
CACS 436

This course will cover programming techniques such as controlling program flow, looping structures, defining and manipulating functions and the various uses of JavaScript's object properties and methods. However, this course is not intended to teach general programming concepts; therefore, students should be familiar with general programming concepts such as variables, statements, parameter passing and the idea of modularized code (i.e. functions/subroutines/methods). This hands-on course will have a lot of in-class exercises using JavaScript in practical applications such as verifying different types of form field data, browser detection, reading, writing and deleting cookies, creating new pages dynamically and writing user defined functions for pre-loading images.

Prerequisites: CACS 240 Introduction to Programming and CACS 336 Introduction to JavaScript or equivalent. **Recommended texts:** *JavaScript, The Definitive Guide* by David Flanagan or *JavaScript Bible* by Danny Goodman, Brendan Eich.

Joyce E. Evans, B.A.

Section 101: Saturdays, June 9-23, 9 a.m.-4 p.m. University Computing Center 127.

Section 102: Saturdays, July 14-28, 9 a.m.-4 p.m. Humanities 1B45.

All Sections: 3 sessions. \$300.


Web Site Design Project
CACS 600

Required capstone course for the Certificate in Web Site Design. Follow the web site design process from client interviews through design and prototyping to publishing. With minimal assistance, use the design process to demonstrate your complete understanding of web site design. This fast-paced class builds upon the skills learned in the courses required for the Certificate. Particular attention is given to page layout, site navigation, tables, forms, frames, and JavaScript scripts. Homework is regularly assigned and must be completed as directed for successful completion of this course and the Certificate. **Prerequisite:** Students must have satisfactorily completed all the required courses for the Web Site Design Certificate. CACS 533 Advanced HTML 4.0 Update is recommended.

Beth Sigren, B.S.

Section 100: Wednesdays, June 6-July 11 (skip July 4), 6-9 p.m. 5 sessions. Humanities 1B45. \$295.

PROGRAMMING

Introduction to Programming 
CACS 240

This is an excellent first course for students with minimal or no programming background who want to take Hands-On C++. 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 if statements, loops and modularized code and learn to write top-down elegant code. **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent. **Required text:** *Karel ++*, Pattis.

Charry Stover, M.S.

Section 100: Tuesdays, June 12 and 19, 9 a.m.-4 p.m. Wednesday and Thursday, June 13 and 14, 6-9 p.m. and Saturday, June 16, 9 a.m.-4 p.m. 5 sessions. University Computing Center 123. \$440.

*(Programming continued)***Introduction to Hands-On C++ CACS 241**

A gentle introduction to C++ programming for those who have some background in object-oriented structured programming. This partially self-paced course covers basic I/O, conditionals, loops and an introduction to functions and pointers. Those who are relatively new to programming should have some facility writing simple C++ code by the end of this class. Those with a strong programming background should have the coding of simple C++ programs "wired" and find the pursuit of the more arcane aspects of this language a simpler task. **Prerequisite:** CACS 240 **Introduction to Programming** or equivalent. **Required text:** *C++ How to Program*, Deitel & Deitel.

Charry Stover, M.S.

Section 100: Tuesday, June 26, 9 a.m.-4 p.m., Wednesday, June 27, 6-9 p.m., Thursday, June 28, 6-9 p.m., Saturday, June 30, 9 a.m.-4 p.m., and Monday, July 2, 9 a.m.-4 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). \$440.

Intermediate Hands-On C++ CACS 341

This course will cover pointers, arrays, strings, structures and file handling. It is hands-on and partially self-paced. Students should be able to write a C program with functions before taking this class. **Prerequisite:** CACS 241 **Introduction to Hands-On C++** or equivalent. **Required text:** *C++ How to Program*, Deitel & Deitel.

Susan Ramirez, B.S.

Section 100: Saturdays, July 7-21, 9 a.m.-4 p.m. 3 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). \$440.

Introduction to Application Programming CACS 242

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 Turbo C++. No programming experience is required but recommended. **Prerequisite:** CAPC 203 **Windows 95 Level I** or equivalent. **Recommended text:** *Problem Solving With C++*, Savitch.

Tom Harrold, Ed.D.

Section 100: Mondays and Thursdays, June 4-28, 6-9 p.m. 8 sessions. University Management Systems 001. \$440.

Introduction to Hands-On Visual Basic Programming CACS 245

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:** CAPC 203 **Windows 95 Level I** or a working knowledge of Windows.

David Nelson, B.S.

Section 100: Mondays, June 4-July 2, 6-9 p.m. 5 sessions. University Computing Center 127. \$400.

Intermediate Hands-On Visual Basic Programming CACS 350

Explore topics designed to expose an intermediate programmer to a wide range of Visual Basic features. All major elements of the language are covered and concepts of an object-oriented, event-driven application are introduced. Implement a graphical interface that includes pull down and pop up menus; use a wide range of the Visual Basic language elements; code effective event procedures; interact with mouse events; and use a variety of standard and custom Visual Basic controls. Understand the range of applications that are possible. **Prerequisite:** CACS 245 **Introduction to Hands-On Visual Basic Programming** or equivalent.

Steve Kaminiski, M.S.


Section 100: Mondays and Wednesday, July 30-August 6, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127. \$415.

Introduction to Object-Oriented Programming in C++ CACS 244

C++ is an extension of the C language that supports object-oriented (O-O) programming. This lecture-based course will focus on the essential concepts underlying O-O programming (data abstraction, inheritance, polymorphism) and will show how these are supported in C++ (classes and objects, member functions, virtual functions). Features of C++ that are not directly related to O-O programming (constants, function overloading, default arguments and inline functions) will also be covered. **Prerequisite: Proficiency in C Programming is required.** Programmers should be comfortable with structures, pointers, arrays, dynamic memory allocations, string handling, and the C preprocessor. Familiarity with object-oriented programming is not a prerequisite. **Recommended text:** *The C++ Programming Language*, 3rd Edition, Stroustrup.

Course not offered this term.



Intermediate/Advanced C++ Programming 
CACS 344


This lecture-based course continues the treatment of C++ and object-oriented programming. It covers features that are needed in production programming: static members, abstract base classes, protected access, friends and arrays of objects. Another aspect of production C++ programming is the process by which programs are built: header files, type-safe linkage and linking with C code. More specialized material will then be covered: operator overloading and references, and initialization versus assignment. The second half of the course covers multiple inheritance, templates and exceptions in detail, and introduces the Standard Template Library (STL). The subtle question of which kind of problems really need multiple inheritance, and the language complexities of virtual base classes will be addressed. Templates (generic types) are more straightforward, but require skill for their effective use. Exception handling policies and mechanisms, and the STL concept of "generic programming" (iterators, collections and algorithms) will be covered. **Prerequisite:** CACS 244 Introduction to Object-Oriented Programming in C++ or equivalent. **Recommended text:** *The C++ Programming Language*, 3rd Edition, Stroustrup.

Course not offered this term.

C++ Gotchas 
CACS 444

Production C++ programming is complicated by numerous features of the language that behave or interact in unexpected ways - "the Gotchas". Gotchas appear in all parts of the language. They affect the correctness, efficiency and portability of C++ software and may cost programmers additional development time to track down obscure bugs. A modest investment in understanding the Gotchas will repay itself many times over. This one-day lecture class presents a collection of over 50 Gotchas (and techniques for avoiding them) from different parts of the language, including constructors and destructors, function and operator overloading, scope, access control, arrays, const, references, inheritance and virtual functions, type-safe linkage, operators new and delete, initialization, multiple inheritance, virtual base classes and templates. **Prerequisite:** CACS 344 Intermediate/Advanced C++ Programming or equivalent.


Course not offered this term.

Object-Oriented Design Patterns 
CACS 345

Designers of object-oriented software have compiled many common architectural solutions to common problems, known as "design patterns". A pattern captures a recurring micro-architecture described in terms of how objects interact to perform a computation. Learning these patterns helps programmers evaluate, communicate, review and implement software designs more effectively. The patterns form a catalog of reusable architectural mechanisms (not a body of reusable source code). This one-day lecture class will explain the design pattern concepts, terminology and benefits and will present a number of fundamental patterns. **Prerequisite:** familiarity programming with objects or an Introduction to Object-Oriented Programming class such as CACS 244 Introduction to Object-Oriented Programming in C++ or CACS 247 Introduction to Object-Oriented Programming Using Java. **Recommended text:** *Object-Oriented Design Patterns*, Gamma, et al.

George Watson


Section 100: Saturday, June 30, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$200.

Object-Oriented Analysis and Design 
CACS 445

This workshop combines lecture and student participation to give you a firm grounding in the fundamental precepts of object-oriented analysis and design. This course will be useful for anyone wondering "How to find the Objects". Upon completion, you will have an excellent foundation to get the most out of C++ and Java or other object-oriented languages. Class size limited to 15 students. **Prerequisite:** CACS 244 Introduction to Object-Oriented Programming in C++ or CACS 247 Introduction to Object-Oriented Programming Using Java or equivalent. Students should be comfortable programming with objects.

Paul Jensen, M.S.

Section 100: Friday and Saturday, June 8 and 9, 9 a.m.-5 p.m. 2 sessions. University Computing Center 123. \$485.

Introduction to Object-Oriented Programming Using Java 
CACS 247

This 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 (classes and objects, methods, dynamic method binding). We study the java.util package's data structures and collection classes. We also introduce GUI and applet programming. The format is lecture with lab assignments to be completed between classes. **Prerequisite:** CACS 342 Intermediate Application Programming or intermediate level experience with any procedural programming language. Basic programming concepts will not be covered. **Recommended text:** *Just Java*, Peter van der Linden.

Carol J. Meier, M.S.

Section 100: Mondays and Wednesdays, June 4-25, 6-9 p.m. 7 sessions. Humanities 1B80. \$490.



(Programming continued)

Java for Object-Oriented Experienced Programmers

CACS 347

This in-depth lecture-based course of the Java programming language begins with an overview of the Java language, then rapidly covers the basics and progresses to inheritance, packages and interfaces and exceptions. Details of the type system, compilation model and the dynamic character of the execution model are emphasized. Students will acquire production Java programming skills. Use of standard Java library packages is illustrated throughout the course. Programming exercises are provided for pursuit between classes. **Prerequisite:** CACS 247 **Introduction to Object-Oriented Programming Using Java** or experience with object-oriented programming, including inheritance and polymorphism is required. Those with no object-oriented programming experience should start with CACS 247. **Recommended text:** *The Java Programming Language*, Arnold & Gosling.

Dave Rodenbaugh, B.A.

Section 100: Mondays and Wednesdays, July 9–August 1, 6–9 p.m. 8 sessions. Humanities 135. \$495.

Network Embedded Java Programming

CACS 450

This course provides a hands-on introduction to programming network-enabled embedded computers in Java. The course will focus on Dallas Semiconductor's TINI board, ibutton.com Outline: Embedded programming principles, the TINI platform (hardware/firmware/software), provisioning, interfacing, programming and deploying a TINI application. See profcon.com for further details, particularly about the hardware that students must acquire prior to class.

Prerequisite: Java programming at the level of CACS 447 **Advanced Java Programming Language Topics** and CACS 448 **Advanced Java Library Topics** or equivalent.

George Watson

Section 100: Saturdays, June 16 and 23, 9 a.m.–2:30 p.m. 2 sessions. Humanities 1B80. \$415.



Enterprise Java Beans One-Day Overview

CACS 451

Beans, beans, the magical fruit... This one-day overview lecture course will introduce you to the world of Enterprise Java Beans (EJB), covering topics such as what is EJB and how does it fit into the J2EE (Java2 Enterprise Edition) world, overviews of supporting technologies such as JNDI (Java Naming & Directory Interface), JDBC (Java Database Connectivity), and RMI (Remote Method Invocation), entity versus session beans, security, transaction handling, best practices, portability and performance considerations. We will also look at the state of the current specification as well as how the various vendors are supporting this spec. At the end of this course, you should be able to decide whether EJB will meet your upcoming needs for remote data projects or web-based applications. **Prerequisite:** CACS 347-**Java for Object-Oriented Experienced Programmers** or equivalent. CACS 447 **Advanced Java Programming Language Topics** and CACS 448 **Advanced Java Library Topics** are highly recommended, but not required. **Recommended text:** *Enterprise Java Beans*, 2nd Edition, Richard Monson-Haefel (O'Reilly).

David Rodenbaugh

Section 100: Saturday, July 21, 9 a.m.–4 p.m. 1 session. Humanities 135. \$200.

Java Servlets

CACS 248

Servlets are a Java-based tool for communicating with web browsers. They are faster and more secure than CGI, and more portable and stable than many of the competing technologies. In this one-day lecture course the following will be covered: What a servlet is; HTTP/HTML and their relationship to servlets; the servlet life cycle; multimedia content; session tracking and logging; security; database connectivity and JDBC; communicating with applets; complementary technologies such as RMI, EJB, Java Server Pages (JSP); and competing technologies such as COM/DCOM/ActiveX and Active Server Pages (ASP). **Prerequisite:** CACS 247 **Introduction to Object-Oriented Programming Using Java** or equivalent. Some experience with HTML and/or JavaScript will also be helpful, but is not required.

Greg Holling, B.S.

Section 100: Saturday, July 14, 9 a.m.–4 p.m. 1 session. University Computing Center 123. \$200.

Introduction to Perl for Programmers

CACS 250

Perl has become the standard for CGI (Common Gateway Interface) programming on the Web. However, its use goes beyond CGI and is indispensable to systems administrators, programmers, and computer users alike. Statements, variables and arrays, operators, I/O, control structures, tests and conditions, regular expressions and the basics of CGI will be covered. This course will not cover modules and objects. It is not intended to teach general programming concepts; therefore, students should know another programming language (i.e. C, C++, Cobol, or UNIX shell scripting). **Prerequisite:** CACS 240 **Introduction to Programming** or equivalent. **Recommended text:** *Perl for Programmers*, 3rd Edition, Wall, Christiansen and Orwant (O'Reilly).

Joyce E. Evans, B.A.

Section 100: Tuesdays, July 3–31, 6–9 p.m. 5 sessions. University Management Systems 001. \$440.

Extensible Mark-up Language (XML)

CACS 330

Extensible Mark-up Language (XML) is a W3C standard for encoding and self-describing data. It is designed to ease the interchange of diverse types of data across a variety of platforms and applications, including the WWW. This lecture-based course presents a detailed introduction to XML and its related alphabet soup: DTD (for specifying document types), XSL (for stylesheets), Xlink (for links) and Xpointer (for pointers), DOM (for object tree construction) and SAX (for event-based parsing). The presentation will be technical, suitable for application programmers.

Prerequisite: Knowledge of programming, preferably in Java, for example, CACS 247 **Introduction to Object-Oriented Programming Using Java** or equivalent. Detailed knowledge of SGML and HTML is not required.

George Watson

Section 100: Mondays, July 9–30, 6–9 p.m. 4 sessions. Humanities 180. \$415.

(All courses on the PC and Macintosh platforms will be listed together in this section.)

**Windows 95 Level I
CAPC 203**

If you are entirely new to the Windows environment, this class will help you explore the many features of this friendly user interface. Learn how to locate, access and organize files, associate files with programs, and open, close and switch between applications. Other features examined include multitasking, properties, plug and play and multimedia. **Prerequisite: CACS 100 Computer Literacy** or equivalent.

Chris Mattson, B.S.

Section 100: Thursday, June 7, 9 a.m.-4 p.m. 1 session. University Computing Center 127. \$165.

**Windows 98 Level I
CAPC 205**

If you are entirely new to Windows or have upgraded from Windows 95 to Windows 98, this class will compare enhancements that make Windows 98 a stronger operating environment. Learn how to locate, access and organize files, associate files with programs and open, close and switch between applications. Other features examined include multitasking, properties, and what's new in 98. **Prerequisite: CACS 100 Computer Literacy** or equivalent.

Lisa Kelly, B.A.

Section 100: Monday, July 9, 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). \$165.

OFFICE PACKAGES

Word Processing

**Word 97 (8.0) Level I
CAPC 213**

Learn to create a simple document. Printing, selecting, moving, copying and deleting text, changing fonts and point size and the bold, italics and underline features will be covered. Other topics include inserting special characters, creating bulleted and numbered paragraphs, changing margins, setting tabs, using spell check and the help system. Explore the integrated features including extended filenames, desktop shortcuts and enhanced auto correct. **Prerequisite: CAPC 203 Windows 95 Level I** or equivalent.

Lisa Kelly, B.A.

Section 100: Tuesdays, July 17 and 24, 9 a.m.-2:30 p.m. 2 sessions. University Management Systems 001. \$200.

SPREADSHEETS

**Excel 97 (8.0) Level I
CAPC 234**

Learn basic spreadsheet design and construction, file management, formulas, functions, worksheet editing, formatting and printing. Explore the integrated features of this version including extended filenames, easier number formatting, and enhanced drag and drop. **Prerequisite: CAPC 203 Windows 95 Level I** or equivalent.

Jeff Schatz, B.A.

Section 100: Monday, July 16, 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). \$165.

**Excel 2000 (9.0) Level I
CAPC 235**

Learn basic spreadsheet design and construction, file management, formulas, functions, worksheet editing, formatting and printing. Explore the integrated features of this version including extended filenames, easier number formatting, and enhanced drag and drop. **Prerequisite: CAPC 203 Windows 95 Level I** or equivalent.

Chris Mattson, B.S.

Section 100: Wednesday, July 11, 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). \$165.

**Excel 97 (8.0) Level II
CAPC 334**

Use the search and replace function, the date function, hiding columns and protecting cells using absolute referencing and ranges. Explore the wealth of graphic features! Learn about integrated features such as desktop shortcuts, linking and templates for data tracking, expense tracking and financial planning. **Prerequisite: CAPC 234 Excel 97 Level I** or equivalent.

Lisa Kelly, B.A.

Section 100: Monday, July 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). \$165.

**Excel 2000 (9.0) Level II
CAPC 335**

Use the search and replace function, the date function, hiding columns and protecting cells using absolute referencing and ranges. Explore the wealth of graphic features! Learn about integrated features such as desktop shortcuts, linking and templates for data tracking, expense tracking and financial planning. **Prerequisite: CAPC 235 Excel 2000 Level I** or equivalent.

Chris Mattson, B.S.

Section 100: Wednesday, July 18, 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). \$165.

DATABASES

**Access 97 (8.0) Level I
CAPC 255**

Create and edit databases, manipulate data elements and create summary reports in a few easy-to-learn steps. Build on the principles of good data management and design to enter, organize, access and report virtually unlimited amounts of information. Explore the tips and tricks along with integrated features including object naming, desktop shortcuts, intelligent tables, Queries and improved form and report wizards. **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent.

Chris Mattson, B.S.

Section 100: Thursdays, June 14 and 21, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127. \$230.

**Access 2000 (9.0) Level I
CAPC 256**

Create and edit databases, manipulate data elements and create summary reports in a few easy-to-learn steps. Build on the principles of good data management and design to enter, organize, access and report virtually unlimited amounts of information. Explore the tips and tricks along with integrated features including object naming, desktop shortcuts, intelligent tables, Queries and improved form and report wizards. **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent.

Chris Mattson, B.S.

Section 100: Thursdays, July 12 and 19, 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). \$230.

**Access 97 (8.0) Level II
CAPC 355**

Use your basic skills and concepts to begin to explore more advanced features of Access, including action queries and table relationship types, security and rules. The course will introduce the student to the concepts of application development including drop down list, sub-form, command buttons, macros, properties and calculated form and report controls.

Prerequisite: CAPC 255 Access 97 Level I or equivalent.

Chris Mattson, B.S.

Section 100: Thursday, June 28, 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). \$180.

**Access 2000 (9.0) Level II
CAPC 356**

Use your basic skills and concepts to begin to explore more advanced features of Access, including action queries and table relationship types, security and rules. The course will introduce the student to the concepts of application development including drop down list, sub-form, command buttons, macros, properties and calculated form and report controls. **Prerequisite:** CAPC 256 Access 2000 Level I or equivalent.

Chris Mattson, B.S.

Section 100: Thursday, July 26, 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). \$180.

**Database Design Concepts
CAPC 357**

Learn insights into the processes of planning a database. The class introduces the concepts of "Normalization" and the first three normal forms. Emphasis is placed on the design and use of a flat, unnormalized table converted to related tables of data into a balanced system that can be used for data input and maintenance. Access for Windows will be the application software for lab exercises.

Prerequisites: CAPC 255 Access 97 Level I or equivalent and a good working knowledge of the Windows 95 interface. A basic understanding of Excel for Windows is recommended.

Chris Mattson, B.S.

Section 100: Saturdays, July 28 and August 4, 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). \$230.

**Relational Database Concepts
and SQL Programming
CAPC 358**

This course provides an introduction to relational databases and the Structured Query Language (SQL). These topics will be explored using a simulated college registration database. Students in the course will assume the role of data analysts asked to provide college administrators with management information. Considerable attention will be placed on the construction, testing, debugging, and simplification of SQL programs. The course also examines 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. Important notes: 1) This course emphasizes database use rather than database administration; 2) The course utilizes Oracle SQL and SQL *Plus.

Prerequisite: CAPC 255 Access 97 Level I or previous experience with databases.

Douglas Smith, B.S.

Section 100: Mondays and Thursdays, July 2-30, 6-8 p.m. 9 sessions. University Management Systems 001. \$300.

COMPUTER GRAPHICS

Windows Computer Art
CAPC 280

This course is an overview of the various Windows based graphics programs. This course will cover drawing programs in Windows and Microsoft Works. It will include an overview of illustration applications such as Adobe Illustrator and CorelDRAW! **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent.

Jerry Reynolds, M.S.E.E.

Section 100: Saturday, June 9, 9 a.m.-4 p.m. 1 session. Humanities 1B45. \$175.

Macintosh Computer Art
CAMC 280

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. **Prerequisite:** Must have a working knowledge of the Macintosh system.

Barry Ratliff, M.F.A.

Section 100: Wednesdays, June 6 and 13, 6-9 p.m. 2 sessions. Humanities 1B35. \$175.

Photography courses are available through the Personal Enrichment program, page 21.

Photoshop for Windows 98 (6.0)
Level I
CAPC 282

Learn to use the premier photographic editing application. Learn basic scanning techniques and how best to capture your photos. The basic skills of photo editing are taught in this course. Special attention will be given to web site requirements. **Prerequisite:** CAPC 280 Windows Computer Art or equivalent.

Jerry Reynolds, M.S.E.E.

Section 101: Wednesdays, June 6 and 13, 9 a.m.-4 p.m. University Computing Center 127.

Section 102: Mondays, June 18 and 25, 9 a.m.-4 p.m. University Computing Center 127.

Section 103: Tuesdays, July 24 and 31, 9 a.m.-4 p.m. 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).

All Sections: 2 sessions. \$230.

Photoshop for Windows 98 (6.0)
Level II
CAPC 382

Learn advanced photo editing techniques. Sharpen your skills on scanning and image editing. Edit your photos and drawings to achieve professional quality work. Learn prepress and production techniques. Learn requirements for web site applications. **Prerequisite:** CAPC 282 Photoshop for Windows 98 Level I or equivalent.

Jerry Reynolds, M.S.E.E.

Section 100: Wednesdays, July 18 and 25, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127. \$230.

Photoshop for Macintosh (6.0)
Level I
CAMC 282

Learn to use "standard photographic manipulation" of electronic images and how to create special effects using filters, paint tools, masking and image overlay. In addition, investigate output options such as color proofs and separations. **Prerequisite:** CAMC 280 Macintosh Computer Art or equivalent. **Recommended text:** Adobe Photoshop 5.0 Classroom in a Book.

Tim Meehan

Section 100: Wednesdays, June 20-July 18 (skip July 4), 6-9 p.m. 4 sessions. Humanities 1B35. \$230.

Photoshop for Macintosh (6.0)
Level II
CAMC 382

Expand your knowledge of this application by gaining a greater understanding of its use from a production point of view. Learn pre-press techniques and quality control that can help avoid costly mistakes and time consuming duplication. **Prerequisite:** CAMC 282 Photoshop for Macintosh Level I or equivalent. **Recommended text:** Official Adobe Photoshop 5.0 Studio Techniques, Willmore.

Tim Meehan

Section 100: Saturdays, July 28 and August 4, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$230.



Dave Mesnard works as an engineer for a manufacturer of flow instruments. He's taking Visual Basic because it's a popular programming language in his field, and he will use it at work to automate a calibration system. Dave chose Continuing Education at CU because "it's the easiest and most economical way to get the training I need." Dave is a CU alumnus, so he knows he can expect to get high-caliber teachers and relevant training.

COMPUTER APPLICATIONS

(Computer Graphics continued)

Illustrator for Windows 98 (8.0) Level I CAPC 283

Create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Work can be printed as proofs or separations, or uploaded for web applications. Learn how to take photos from Adobe Photoshop and integrate them into illustrations using Adobe Illustrator.

Prerequisite: CAPC 280 Windows Computer Art or equivalent.

Jerry Reynolds, M.S.E.E.

Section 100: Wednesdays, June 20 and 27, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127. \$230.

Illustrator for Macintosh (8.0) Level I CAMC 283

Create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Work can be printed as proofs or separations on paper or film, exported as EPS documents to page layout programs or taken directly into Adobe Photoshop. **Prerequisite:** CAMC 280 Macintosh Computer Art or equivalent.

Recommended text: *Adobe Illustrator for Macintosh Classroom in a Book*, Adobe Press.

Rick Hoyt, B.S.

Section 100: Saturdays, July 14 and 21, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$230.

MULTIMEDIA

These courses are taught on the Macintosh; however, the applications are consistent on both the PC and Macintosh platforms.

Also see Using Macromedia DreamWeaver to Create Web Sites CACS 434 and Motion Graphics Using Flash CACS 260 on page 34.

Macromedia Director (6) CAMC 291

Learn the production of interactive multimedia presentations, including animation, still graphics, voice and sound, text and video. A host of other graphics and sound software will be used. Emphasis will be on high quality presentations and finished productions that will run on both Macintosh and PC platforms.

Prerequisite: CAMC 280 Basic Macintosh Computer Art, CAPC 280 Windows Computer Art, or equivalent. You must have some proficiency in using a Macintosh as this course will be taught in a Macintosh lab.

Instructor: TBA

Section 100: Saturdays, June 16 and 23, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$260.

Multimedia Solutions CAMC 293

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 experience with graphic animation authoring software. **Prerequisite:** CAMC 280 Macintosh Computer Art, CAPC 280 Windows Computer Art or equivalent. **Required text:** *Multimedia: Making it Work*, Tay Vaughan. You must have some proficiency in using a Macintosh as this course will be taught in a Macintosh lab.

William Busch

Section 101: Mondays, June 4-25, 6-9 p.m.

Section 102: Thursdays, June 7-28, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B35. \$230.

COMPUTER AIDED DESIGN

AutoCAD 2000 Level I CAPC 261

Focus on the 2D drafting features of AutoCAD with an emphasis on setting up new drawings including units, limits, scaling, layers, basic drawing construction and editing techniques and the production of hardcopy. You will also learn how to use template drawings and blocks to complete new projects with much less effort! **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent. Some understanding of drafting concepts/techniques is helpful. **Required text:** *AutoCAD 2000, No Experience Required*, David Frey.

Michael George, BEnod BArch

Section 100: Mondays and Wednesdays, June 4-20, 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). \$390.

AutoCAD 2000 Level II CAPC 361

Topics include semiautomatic dimensioning, dimensioning variables, isoplanar grids, prototype drawings, highly useful but less known commands, compatibility with other software, external references, symbol libraries, cross hatching, attributes, and advanced file management. **Prerequisite:** CAPC 261 AutoCAD 2000 Level I or equivalent. **Required text:** *AutoCAD 2000, No Experience Required*, David Frey.

Michael George, BEnod BArch

Section 100: Mondays and Wednesdays, July 23-August 8, 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$390.

REAL ESTATE AND APPRAISAL PROGRAM

THE REAL ESTATE AND APPRAISAL PROGRAM (REAP) *provides statewide professional development courses for individuals planning to enter the real estate and appraisal professions, as well as continuing education for those already working in these specialties. REAP has the most comprehensive curriculum of pre-licensing and license renewal courses in the state of Colorado.*

- Fully accredited curriculum of over 40 courses including all of the required pre-license and license renewal courses for the Colorado real estate and appraisal professions
- Top-notch faculty who work in the profession and who practice what they teach
- Early registration ("early bird") discounts which save you between 5-20% off the regular course fee
- "No fear" registration policy which guarantees a full refund if you are unable to attend the course you signed up for

NEW REAL ESTATE LICENSES

The three levels of real estate licensees are **associate broker, independent broker,*** and **employing broker.*** Colorado real estate license law requires that an **associate broker** candidate successfully complete the six courses described below (168 classroom hours), pass the real estate broker's examination, and submit the appropriate licensing application to the Colorado Real Estate Commission.

For more information about these requirements, the state exam, and/or the application process, call the Colorado Real Estate Commission at 303-894-2166.

Real Estate Law and Practice NCRE 007

Designed to teach you the practice of real estate and prepare you for the uniform portion of the real estate broker's examination, this comprehensive survey of the real estate field is also useful to anyone who desires a basic knowledge of real estate. Topics include real property interests, government controls, deeds, contracts, finance and appraisal, as well as fundamental concepts and vocabulary. 48 hours

Colorado Contracts and Regulations NCRE 020

This practical course introduces you to Colorado's license law, regulations, and standard contracts, and prepares you for the state portion of the real estate broker's examination. We will analyze the standard listing contract, sales contracts, the extension agreement, and the counterproposal. Our approach emphasizes thoroughly understanding each clause of a contract and properly completing each type of agreement. 48 hours

Record Keeping and Trust Accounts NCRE 022

In this one-day course you will learn the proper record keeping procedures required by the Real Estate Commission to maintain and account for funds belonging to others. Topics include legal requirements, special areas of concern, and termination of the brokerage relationship. 8 hours

Real Estate Closings NCRE 029

You will learn to properly close a real estate transaction, including understanding your responsibilities as a broker, accounting for all funds received and disbursed, and becoming familiar with all related legal documents. You will be introduced to the 6-column worksheet and you will work through at least eight sample closings. 24 hours

Practical Applications NCRE 032

After learning about real estate principles, regulations, policies, and procedures, this is the course where you learn the realities of working in the profession. It gives you "how to" information on such topics as entering the field, developing your market, establishing a brokerage relationship, showing a property, preparing and presenting an offer, and closing a transaction. 32 hours

Current Legal Issues NCRE 034

In this one-day course, you will participate in a workshop where you will be applying selected, current real estate statutes and regulations, and discussing important legal issues, developments, and practices. 8-hours

Exam Prep NCRE 099

This two-day course will prepare new and current licensees to successfully pass the Colorado portion of the state exam. The state exam *is required* in obtaining or upgrading a real estate license and may be used *in lieu of* continuing education credits for license renewal. This course *will not provide* continuing education credits for license renewal.

(continued on next page)

* The Real Estate and Appraisal Program also offers the courses required to upgrade your license to the **independent broker** or **employing broker** levels and offers continuing education courses toward license renewal.

NEW APPRAISAL LICENSES

Colorado has four classes of appraisers: **Registered, Licensed***, **Certified Residential*** and **Certified General***. A Registered Appraiser is an apprentice-level appraiser who may do mortgage work under the direct supervision of a licensed or certified appraiser (who must approve and sign the work). Candidates must successfully complete at least 75 hours of appraisal education and training, including 15 hours of ethics and standards of practice (the three courses described below), pass the Level A licensing exam, and submit a licensing application.

Please contact the Colorado Board of Real Estate Appraisers at 303-894-2166 for additional information and clarification.

Registered Appraiser: Basic Appraisal Principles and Procedures NCRE 200

This course is the first of our three-course series designed to meet the basic educational requirements for the Registered Appraiser. It covers appraisal fundamentals and prepares the applicant for the state exam. 48 hours

Standards and Ethics NCRE 202

This course is designed to meet the 15-hour requirement of standards and ethics for the state and federal law, and is the second of our three-course Registered Appraiser series. Using the case method, students will study the 10 Uniform Standards of Professional Appraisal Practice as promulgated by the Appraisal Foundation. 16 hours

Basic Appraisal Applications: Residential Case Study NCRE 204

This is the third of our three courses leading to the Registered Appraiser license. It requires you to work through the complete appraisal process for a residential property that is currently on the market, and includes a field trip to the property you will be appraising. Topics to be covered (and practiced) include, but are not limited to, inspection techniques, measuring, sales confirmations, comparable analysis, using the three approaches to value, and preparing narrative addenda. 32 hours

* The Real Estate and Appraisal Program also offers all of the required courses to upgrade to the **Licensed, Certified Residential** and **Certified General** license levels and offers continuing education courses toward license renewal.



For additional information, course dates, locations, registration,

Request a Real Estate and Appraisal catalog:

Metro Denver/Boulder	303-492-5148
TTY	303-492-8905
National toll-free	800-331-2801
FAX	303-492-3962

Or visit the web site:

www.colorado.edu/conted/RealEstate/

WELCOME

SPECIAL PROGRAMS

INTERNATIONAL ENGLISH CENTER

In addition to its intensive, full-time program for international students, the International English Center (IEC) provides evening classes in English as a second language for community residents or interested visitors from other countries. Meeting on Mondays and Wednesdays at a cost of \$350 (text included) for seven weeks, the classes are offered at three different proficiency levels – beginning, intermediate and advanced. Courses in practical writing and pronunciation are offered on Tuesdays and Thursdays for \$350 for seven weeks. For registration information, visit the IEC at 1030 13th Street or call 303-492-5547.

Beginning Level (NCFL 900) MW 6:30-8:30. For students who speak in simple sentences, understand some (not necessarily all) of what is said, and are familiar with the present tense (but may have some difficulty with past and future).

Intermediate Level (NCFL 910) MW 6:30-8:30. For students who have more than a basic vocabulary, understand much of what is said, and can use most verb tenses effectively. This class is also for students who read a variety of materials with some difficulty and need guidance in writing.

Advanced Level (NCFL 920) MW 6:30-8:30. 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.

Effective Pronunciation (NCFL 950) TR 6:30-8:30. This course is designed for students who wish to improve their comprehensibility. Students will practice pronunciation using a variety of communicative techniques.

Practical Writing Skills (NCFL 960) TR 6:30-8:30. For students who need help with more advance written expression, grammar and mechanics. In addition, this course provides instruction on informal letters, business letters, application forms, and other everyday writing needs, and cultivates a better understanding of formal and informal writing styles and conventions. Note: The student will receive individual assessment of writing skills and receive attention with individual needs.



web: www.colorado.edu/iec
email: ieccu@colorado.edu

CENTER FOR BUSINESS EDUCATION

The Center for Business Education (CBE) at the University of Colorado at Boulder is a joint venture between the College of Business and the Division of Continuing Education. The Center extends the resources of CU's College of Business to professional communities through executive and business education programs. Programs combine the College's best faculty and most relevant curricula with innovative and flexible class formats.

The CBE is charged with developing and delivering noncredit courses, seminars, tutorials, and workshops in the field of business administration to local, regional, national, and international constituencies. The Center for Business Education is a self-funded center within the University of Colorado at Boulder.

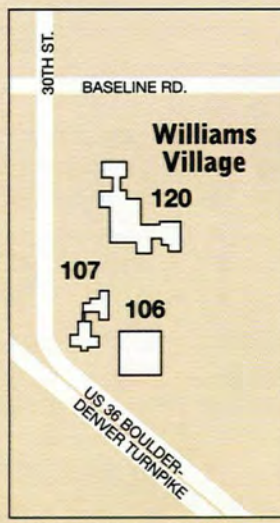
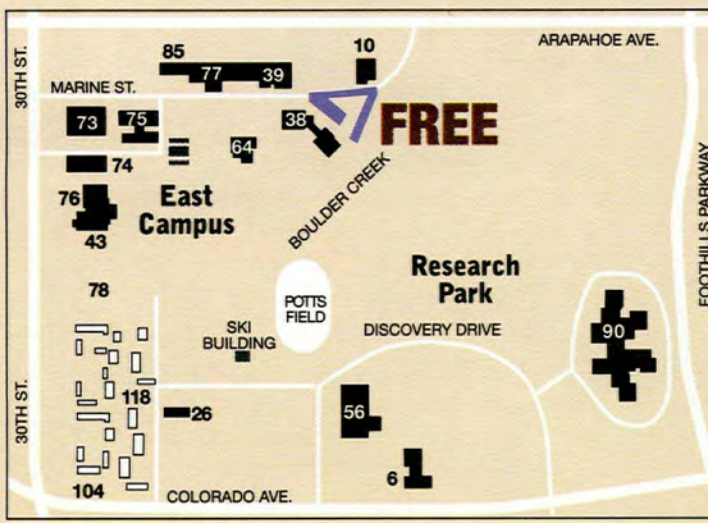
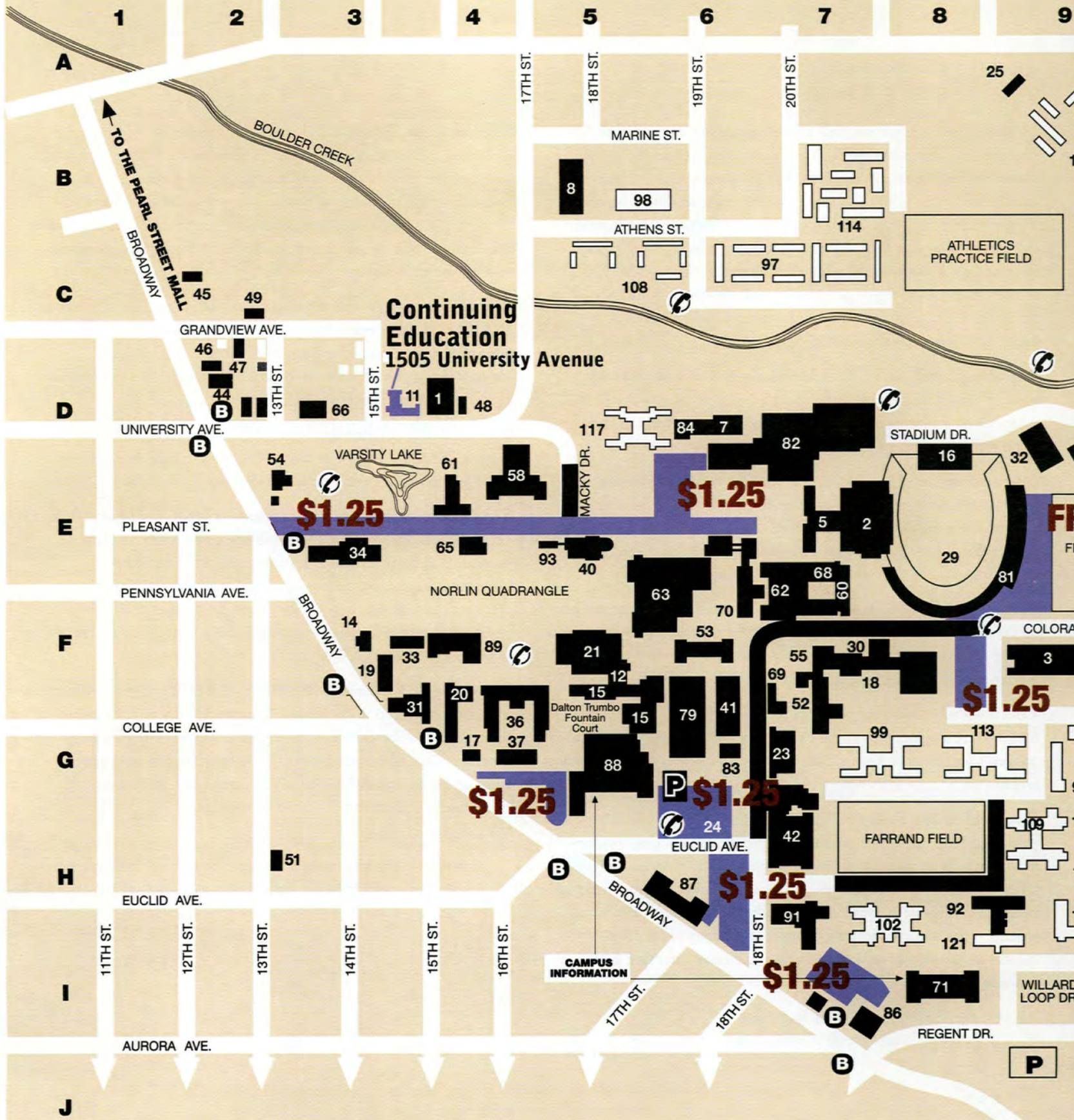
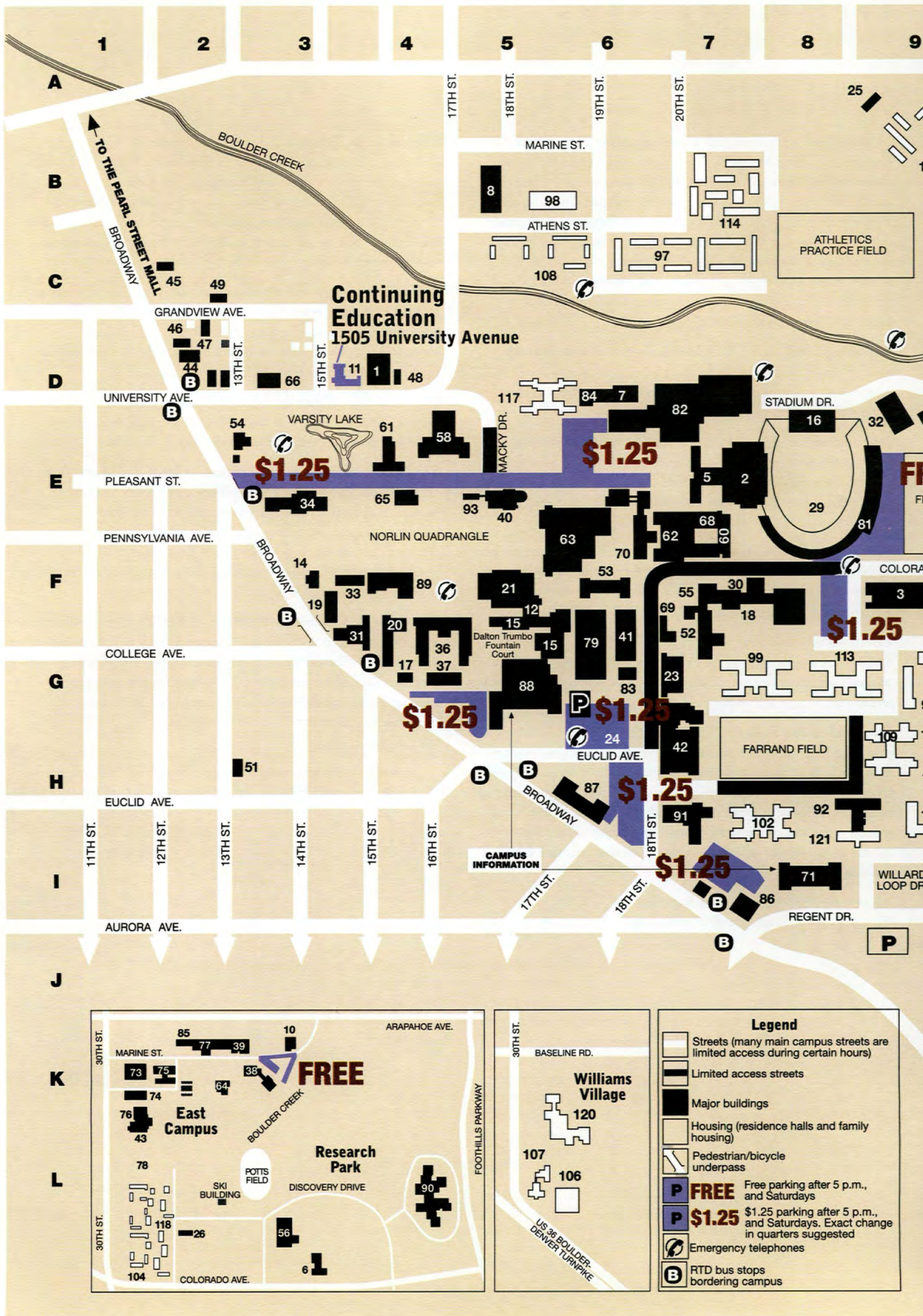
The CBE has been redesigning the business curriculum to best serve current and future needs. In that effort, we launched two programs in 2000 and more programs are in development.

The **CU Business Intensive Certificate (CUBIC)** program offers non-business undergraduate students the opportunity to learn fundamental business principles and practices in an intensive, interactive format. Students study Marketing, Management, Accounting, Finance, E-commerce, and Economics and upon completion earn a Certificate in Applied Business. Visit the web site at bus.colorado.edu/CUBIC

The **Colorado Executive in Residence (CEDIR)** program offers busy high level managers and executives an opportunity to refresh and renew their business skills at an intensive two-week residential program. Participants return to CU-Boulder for two weeks each summer for a total of three summers, earning a Certificate of Executive Management. Visit the web site at bus.colorado.edu/CEDIR



For more information on upcoming CBE programs, visit the web site at bus.colorado.edu/CBE or call 303-735-1246.





University Buildings

1. Armory (D-4)
2. Balch Fieldhouse (E-7)
3. Benson Earth Sciences Building (F-9)
4. Business (H-10)
5. Carlson Gymnasium (E-7)
6. Center for Astrophysics and Space Astronomy (L-4)
7. Clare Small Arts and Sciences (D-6)
8. College Inn Conference Center (B-5)
9. Communication Disorders and Speech Science (I-11)
10. Computing Center (J-3)
11. Continuing Education (D-2)
12. Cooperative Institute for Research in Environmental Sciences (CIRES) (F-5)
13. Coors Events/Conference Center (I-12)
14. Cottage No. 1 (F-3)
15. Cristol Chemistry (G-5)
16. Dal Ward Athletic Center (D-8)
17. Denison Laboratory (G-4)
- * 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)
19. Economics (F-3)
20. Education (G-4)
21. Ekeley Sciences (F-5)
22. Engineering Center (F/G-10/11)
23. Environmental Design (G-7)
24. Euclid Avenue Autopark (G-6)
25. Family Housing Children's Center- Main Offices (A-9)
26. Family Housing Children's Center- Colorado Court (L-2)
27. Fiske Planetarium and Science Center (J-10)
28. Fleming Law (K-10)
29. Folsom Stadium (E-8)
30. Gamow Tower (F-7)
31. Geology (G-3)
32. Grounds and Service Center (D-9)
33. Guggenheim Geography (F-3)
34. Hale Science (E-3)
35. Health Physics Laboratory (D-9)
36. Hellems Arts and Sciences/Mary Rippon Theatre (G-4)
37. Henderson Museum, University of Colorado Museum of Natural History (G-4)
38. Housing System Maintenance Center (K-3)
39. Housing System Service Center (J-3)
40. Humanities Building (E-5)
41. Hunter Science (F-6)
42. Imig Music (H-7)
43. Institute for Behavioral Genetics (K-1)
44. Institute of Behavioral Science (IBS) No. 1 (D-2)
45. IBS No. 2 (C-2)
46. IBS No. 3 (D-2)
47. IBS No. 4 (D-2)
48. IBS No. 5 (D-4)
49. IBS No. 6 (C-2)
50. Integrated Teaching and Learning Laboratory. See Engineering Center (G-11)
51. International English Center (G-2)
52. Joint Institute for Laboratory Astrophysics (G-7)
53. Ketchum Arts and Sciences (F-6)
54. Koening Alumni Center (E-2)
55. Laboratory for Atmospheric and Space Physics (LASP) (F-7)
56. LASP Space Technology Center (L-3)
57. Lesser House (F-11)
- * Life Sciences Laboratories Complex (E-7). See Muenzinger Psychology, Porter Biosciences, and Ramaley Biology.
58. Macky Auditorium (D-4)
59. Mathematics Building (F-10)
60. MCDB expansion (E-7)
61. McKenna Languages (E-4)
62. Muenzinger Psychology (E-7)
63. Norlin Library (E-6)
64. Nuclear Physics Laboratory (K-2)
65. Old Main (E-4)
66. Page Foundation Center (D-3)
67. Police and Parking Services (G-12)
68. Porter Biosciences (E-7)
69. Power House (F-6)
70. Ramaley Biology (E-6)
71. Regent Administrative Center (I-8)
72. Regent Drive Autopark (G-12)
73. Research Laboratory No. 1 (J-1)
74. Research Laboratory No. 2-WICHE (J-1)
75. Research Laboratory No. 3 (J-2)
76. Research Laboratory No. 4 (K-1)
77. Research Laboratory No. 6 (Marine Street Science Center) (K-2)
78. Research Park Greenhouse (K-1)
79. Sibell Wolle Fine Arts (G-6)
80. Sommers-Bausch Observatory (I-11)
81. Stadium Offices (E-8)
82. Student Recreation Center (D-6/7)
83. Telecommunications Building (G-6)
84. Temporary Building No. 1 (D-6)
85. Transportation Center (J-2)
86. University Administrative Center and Annex (I-7)
87. University Club (H-6)
- * University of Colorado Museum of Natural History. See Henderson Building (#37; G-4)
88. University Memorial Center (UMC) (G-5)
89. University Theatre (including Charlotte York Irey Studios) (F-4)
90. US West Research Park (L-4)
91. Wardenburg Student Health Center (H-7)
92. Willard Administrative Center-North Wing (H-8)
93. Woodbury Arts and Sciences (E-5)

University Housing

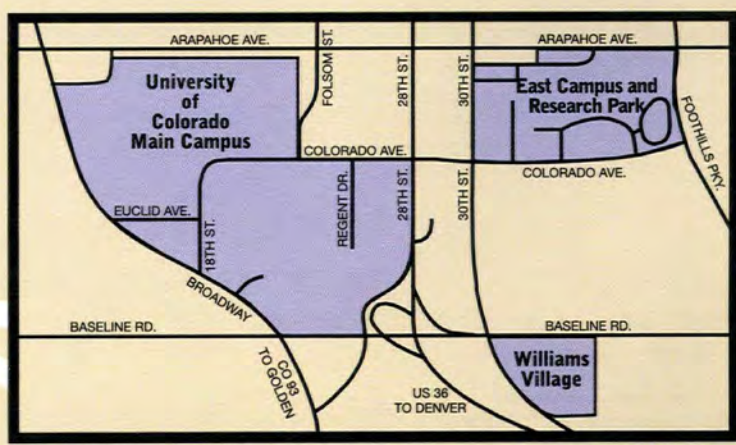
94. Aden Hall (G-9)
95. Andrews Hall-Kittredge Complex (J-11)
96. Arnett Hall-Kittredge Complex (J-12)
97. Athens Court (B/C-6/7)
98. Athens North Court (B-6)
99. Baker Hall (G-7)
100. Brackett Hall (G-9)
101. Buckingham Hall-Kittredge Complex (K-12)
102. Cheyenne Arapaho Hall (H-7)
103. Cockerell Hall (G-10)
104. Colorado Court (L-1)
105. Crosman Hall (G-10)
106. Darley Commons- Williams Village (L-6)
107. Darley Towers-Williams Village (K-5)
108. Faculty-Staff Court (C-5/6)
109. Farrand Hall (H-9)
110. Hallett Hall (H-9)
111. Kittredge Commons- Kittredge Complex (J-10)
- * Kittredge Complex. See Kittredge Commons, and Andrews, Arnett, Buckingham, Kittredge West, and Smith Halls.
112. Kittredge West Hall- Kittredge Complex (J-10)
113. Libby Hall (G-8)
114. Marine Court (B-7)
115. Newton Court (B/C-9/10)
116. Reed Hall (H-10)
117. Sewell Hall (D-5)
118. Smiley Court (L-1)
119. Smith Hall-Kittredge Complex (K-11)
120. Stearns Towers- Williams Village (K-6)
121. Willard Hall-South Wing (H-8)
- * Williams Village. See Darley Commons, Darley Towers, And Stearns Towers.

During any special event, Continuing Education students shall present their registration receipt to obtain parking at no extra charge (Parking Regulation III-D-6a).

Continuing Education students may also purchase parking permits from Parking Services for an additional fee.

University meters are enforced between 7:00 a.m. and 5:00 p.m. seven days a week, including Saturdays and Sundays.

Based on map produced by Student Affairs Communications.



BEGINNING MAY 7, YOU CAN...

1. **Register by Mail.** A postage-paid envelope is located in this catalog. Registration forms are on page 49 for evening credit and page 51 for personal enrichment and computer courses.
2. **Fax Your Registration.** Fast and easy. Day or night to 303-492-3962. Send page 49 for evening credit courses and page 51 for personal enrichment and computer courses.
3. **In Person.** Come to the Continuing Education Office, 1505 University Avenue, between 7:30 a.m. and 5:30 p.m. Monday through Thursday (7:30 a.m. to 5 p.m. Fridays).
4. **By Phone for Personal Enrichment and Computer Courses using Visa, MasterCard, and Discover.** Complete the registration form (page 51) and have your credit card information handy. Then call 303-492-5148 or 800-331-2801 (TTY 303-492-8205).
5. **Use CU Connect or PLUS for Boulder Evening and Independent Learning Courses.** See page 9 for more information.

Costs vary. Tuition is listed at the end of each course description. Student residency does not affect tuition cost for Personal Enrichment or Computer Applications. You may pay by Visa, MasterCard, Discover, cash or check.

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

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

Professional Development Programs

For working professionals to build and enhance business skills.

Center for Business Education

Real Estate and Appraisal Program

International English Center

Where Are Courses Given?

Course locations are given 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 evenings and weekends. The Campus Map gives both building and parking lot locations. To skip parking altogether, take the RTD bus to campus.

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 which includes requesting transcripts over the phone. 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 basement of the University Memorial Center on campus. Call 303-492-6411 or visit their web site at cubooks.colorado.edu. Call us at 303-492-5148 or 800-331-2801 (TTY 303-492-8905) if you need any help or additional information.



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

C R E D I T R E G I S T R A T I O N F O R M



**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:
 American Indian or Alaskan Native
 Asian or Pacific Islander
 Black
 Caucasian/White
 Hispanic
 I do not wish to provide this information

RESIDENCY:
 Colorado
 Other State
 Abbr. _____

MILITARY SERVICE:
 Non-veteran
 Veteran
 Active Duty
 Dates _____ to _____

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:

1. 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 _____
2. 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
3. Are you currently on suspension from any Campus/School of CU? No Yes School _____
4. Do you owe a debt to any University of Colorado campus? No Yes
5. Do you have a college degree? No Yes Highest Degree _____ Date Awarded _____
 College Name/City/State _____
6. Have you ever been convicted of a felony? (other than traffic violation) 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

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

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	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 ____/____/____
Dates stationed in Colorado (mo./day/yr.)	____/____/____ to ____/____/____	____/____/____ to ____/____/____
Date of your marriage, if applicable (mo./day/yr.)	____/____/____ to _____	_____ to _____
Date current Colorado driver's license, if applicable (mo./day/yr.)	____/____/____ to _____	____/____/____ to _____
Issue date of previous Colorado 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 ____/____/____
Are your parents separated or divorced?	Yes _____ No _____	_____

I hereby certify that to the best of my knowledge the information furnished on this application is true and complete without evasion or misrepresentation. I understand that if found to be otherwise, it is sufficient cause for rejection or dismissal.

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.

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

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The Department of Equal Opportunity is responsible for educational and employment opportunity, implementation of affirmative action programs, and coordination of Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1973, the Vietnam Era Veteran's Readjustment Act of 1974, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990. For further information about these provisions, or about issues of equity, discrimination, or fairness, write Garnett K. Tatum, Director, Department of Equal Opportunity, Willard Hall 209, University of Colorado at Boulder, 144 UCB, Boulder, CO 80309-0144 or call 303-492-6706.

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

**REGISTRATION FOR CERTIFICATE
AND NONCREDIT COURSES**

PLEASE PRINT

S.S. No. # _____
For identification purposes. If you wish to claim continuing education tax credits, your social security number must be provided.

Former Student Number _____

Birthdate _____
Month/Day/Year

Last First Middle Initial Maiden Name

Mailing Address _____ Home Telephone _____

City _____ State _____ Zip _____

Business Name _____

Business Address _____ Office Telephone _____

City _____ State _____ Zip _____

E-mail address _____

Sex Male Female

Have you ever enrolled for credit or noncredit course(s) at any campus of the University of Colorado? No Yes

Campus _____

Term _____

Year _____ of most recent attendance.

Have you ever been convicted of a felony (other than a traffic violation)? No Yes (attach statement)

- ETHNICITY:**
- American Indian or Alaskan Native
 - Asian or Pacific Islander
 - Black
 - Caucasian/White
 - Hispanic
 - I do not wish to provide this information

Course No.	Section No.	Course Title	Tuition
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Attach additional sheet if needed _____ Total Enclosed _____

Please register me for the course(s) listed above.

Signature _____ Date _____

TUITION PAYMENT

Please send a check, payable to University of Colorado, to:
Division of Continuing Education
178 UCB
University of Colorado at Boulder
Boulder, CO 80309-0178

Charge: VISA MasterCard Discover (check one)

_____/_____/_____

Expiration Date ____/____/____

Print Cardholder's name, as it appears on the charge card.

If using MasterCard, VISA, Discover enclose the following 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, as of the date of the first day of class.
- I am a non-immigrant alien lawfully admitted in the U.S.

Note that credit card enrollments can be made by phone (see Registration Information).

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Colorado

University of Colorado at Boulder

Division of Continuing Education

1505 University Avenue

University of Colorado at Boulder

178 UCB

Boulder, Colorado 80309-0178

www.colorado.edu/conted

Instruction offered as part of the Statewide Extended Studies Program



Continuing EDUCATION

The CU Division of Continuing Education works in close partnership with the Boulder campus to provide flexible, creative and practical solutions for a broad range of learners in the extended community we serve.

LEARN ... GROW ... BECOME