

# CONTINUING EDUCATION CONTRIVING SOLUTIONS

FALL 2000  
CONTINUING EDUCATION  
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*A. Hunter*

# THE NEW AND NEW AND NOTEWORTHY

**CATALOG TIPS.** For your convenience, we have reorganized the catalog to improve flow and make things easier to find. For example, all credit courses are now grouped together in the front of the catalog. We think you'll find these adjustments helpful. See pages 5 and 6 for information on for-credit registration using CU Connect or the Web.

**NEW COMPUTER LABS.** Starting this fall, we have two new computer labs equipped with state-of-the-art computers and software and the latest technological toys and tools. One new lab is located in our offices at 1505 University Avenue and the other is in the Humanities Building. These supplement the capacity provided by the University Computing Center (UCC) and the University Management Systems (UMS) locations.

**NEW COMPUTER COURSES.** Interest in web-based courses just grows and grows. This semester we're introducing three new courses: Motion Graphics using Flash, Developing Web Applications in Java and Perl for Programmers. (Perl has become the standard for Common Gateway Interface (CGI) programming on the web.) In addition, we're adding Photoshop for Windows 98 (5.5) Level III and Illustrator for Windows 98 (8.0) Level II. For details, turn to page 41.

**NEW ENRICHMENT CLASSES.** Two great opportunities for creatives begin this fall. Commercial and Digital Photo Workshop is a practical how-to for people interested in commercial photography. And Basic Sculpture (for students of all levels) gives students a chance to express themselves in clay, stone, plaster, metal and wood. See page 29 for details.

**BOULDER EVENING EXPANDS FALL OFFERINGS.** Starting this semester, two core courses from the Business curriculum will be offered through the Evening Credit program. These are BCOR 2010 Business Statistics and BCOR 2000 Accounting and Financial Analysis 1. (Turn to page 10 for full course descriptions.) In addition, Boulder Evening is rolling out a number of new courses this fall, including: Screenwriting Workshop, Developmental Psychology, Civil War and Reconstruction, Intro to Western Philosophy, Principles of Ecology, Exploring a Non-Western Culture: Regional Cultures of Africa, Survey of Western Political Thought, and Seminar in the American West. Course descriptions begin on page 10.

**Scholarships available.** Scholarship funds are available for Continuing Education courses. For more information, call 303-492-5148.

**Web site.** Our online presence has been expanded and updated with new courses, additional class sections and locations and lots of helpful information. Drop in and see: [www.colorado.edu/conted](http://www.colorado.edu/conted)



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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.



**FIVE WAYS TO  
BEGINNING  
SEE PAGE 68  
AUGUST 7  
REGISTER**

A photograph of a woman with long, wavy brown hair, smiling and sitting in a grassy field. She is wearing a grey cardigan over a dark red top and blue jeans. To her right, a black dog is sitting, looking towards the camera. The background features a range of dark, rugged mountains under a clear sky. The entire image is framed by a thick purple border.

Susanna Cavalletti Podboy teaches Drawing (FINE 1012-3) for the Evening Credit program. It's a core requirement Fine Arts majors must complete before tackling upper division studio work, and Susanna's objective is to make sure they get what they need. In addition, the course will appeal to anyone who is looking for a rigorous introduction to drawing technique and composition (how to draw and what to draw) balanced with study of the best work of artists through the ages. Susanna is a professional artist with a strong background in Art History. She has been teaching Art History for Continuing Education for several years and says she has had some great students, several of whom have gone on to graduate study in the field. Susanna earned her BFA and MFA in Fine Arts from CU-Boulder with an emphasis in print making. Her subsequent work in Alaska as a print maker was an experience "that taught me discipline and how to manage a studio." Her own work as an artist currently involves large format representational landscapes painted in oils. A fifth generation Coloradan on her mother's side, she paints the western landscape that is "very much a part of my persona." Her father comes from Tuscany, and the family tree is dotted with painters and print makers on both sides. So Susanna's love of art is deeply rooted and keenly felt. In her free time she enjoys skiing and riding and rambling with Leo, her four-footed hiking buddy.

## BOULDER EVENING COURSES: CONTINUING SOLUTIONS FOR YOUR BUSY LIFE.

**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 going back to school
- ❖ 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 303-492-5145 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.

**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. Non-residents of Colorado are assessed tuition based on the number of semester hours for which they register. Non-residents 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, non-resident rate. The Division will charge our in-state rate for Boulder Evening when a non-resident, degree student pays for 4 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, Environmental Design building, Room 2, 303-492-4518.

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. Scholarship awards range up to \$280. September 5 is the application deadline for the Fall 2000 semester and November 17 for Spring 2001 semester. Applications are available at the Division or can be found on the web at [www.colorado.edu/cewww/scholarinfo.html](http://www.colorado.edu/cewww/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, Environmental Design building, Room 2, 303-492-7322.

**TO ENROLL:** We encourage you to register in advance of the first class by CU Connect, the web, 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).

**BOULDER EVENING ACADEMIC CALENDAR FALL 2000**

<b>AUGUST 7</b>	Boulder Evening registration through CU Connect or the web begins 7 a.m. - midnight. Registration is also available by mail, fax, or in person at the Division of Continuing Education, 1505 University, 8 a.m.-5 p.m. Monday through Friday.
<b>AUGUST 31</b>	Full Term classes begin. Faculty/Staff registration for Full Term. 50% discount. Proof of appointment required.
<b>SEPTEMBER 4</b>	Labor Day Holiday. University closed
<b>SEPTEMBER 5</b>	Deadline to apply for Nontraditional Student Scholarship. Session I classes begin. Faculty/Staff registration for Session I. 50% discount. Proof of appointment required.
<b>SEPTEMBER 8</b>	Deadline to petition for in-state classification for Session I classes.
<b>SEPTEMBER 12</b>	5 p.m. deadline to register for Session I classes, add your name to a wait list, request pass/fail status or drop with a 100% refund. Withdrawals from Session I classes after this date will appear as a "W" on student's academic record and must be received in writing.
<b>SEPTEMBER 13</b>	Instructor's signature required to drop Session I classes.*
<b>SEPTEMBER 15</b>	Deadline to petition for in-state classification for Full Term classes.
<b>SEPTEMBER 19</b>	5 p.m. deadline to register for Full Term classes, add your name to a wait list, request pass/fail status, or drop with a 100% refund. Withdrawals from Full Term classes after this date will appear as a "W" on student's academic record and must be received in writing.
<b>SEPTEMBER 20</b>	Instructor's signature required to drop Full Term classes.*
<b>SEPTEMBER 27</b>	Petition required to drop Session I classes.
<b>OCTOBER 5-6</b>	Fall Break. NO CLASSES
<b>OCTOBER 18</b>	Petition required to drop Full Term classes.
<b>OCTOBER 23-24</b>	Session I classes end
<b>OCTOBER 25</b>	Session II classes begin. Faculty/Staff registration for Session II. 50% discount. Proof of appointment required.
<b>OCTOBER 30</b>	Deadline to petition for in-state classification for Session II classes.
<b>NOVEMBER 1</b>	5 p.m. deadline to register for Session II classes, add your name to a wait list, request pass/fail status, or drop with a 100% refund. Withdrawals after this date will appear as a "W" on student's academic record and must be received in writing.
<b>NOVEMBER 2</b>	Instructor's signature required to drop Session II classes.*
<b>NOVEMBER 16</b>	Petition required to drop Session II classes.
<b>NOVEMBER 23-24</b>	Thanksgiving Holiday. NO CLASSES.
<b>DECEMBER 5-21</b>	Full Term classes end.
<b>DECEMBER 11-14</b>	Session II classes end.

\*This signature indicates you were doing passing work when you dropped the course.

**REFUND SCHEDULE FOR BOULDER EVENING CLASSES**

<b>FULL TERM</b>	<b>SESSION I</b>	<b>SESSION II</b>
100% through 5 p.m. Sept. 19*	100% through 5 p.m. Sept. 12*	100% through 5 p.m. Nov. 1*
60% Sept. 20 through 5 p.m. Oct. 3	60% Sept. 13 through 5 p.m. Sept. 19	60% Nov. 2 through 5 p.m. Nov. 8
40% Oct. 4 through 5 p.m. Oct. 17	40% Sept. 20 through 5 p.m. Sept. 26	40% Nov. 9 through 5 p.m. Nov. 15
NONE THEREAFTER	NONE THEREAFTER	NONE THEREAFTER

\*All requests received after this date must be in writing.

# REGISTER USING CU CONNECT OR THE WEB

**IN ADDITION TO REGISTERING** by mail, fax (303-492-3962), or in person (1505 University Avenue), Boulder Evening students are eligible to register using CU Connect (the telephone registration system) or the web. To be eligible to use either CU Connect or the web, students must have a current Continuing Education term record and have no academic or financial stops which could prevent them from registering. To set up a term record, return the registration form on page 69. 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 the web obligates you for any tuition charges as a result of adding any course.

CU Connect and the web 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.

## WEB REGISTRATION

Eligible Boulder Evening students can register on the web by accessing the CU home page at [www.colorado.edu](http://www.colorado.edu) and choosing Personal Lookup Services or going directly to [www.colorado.edu/plus](http://www.colorado.edu/plus) and selecting the "Registration" button. You will then need to enter your student ID number and personal identification number (PIN). Then choose Continuing Education and follow the instructions on the web page from there to add or drop and request pass/fail or no credit. You will need to enter the 5 digit course call numbers to register for courses and click on the "submit" button to process each course request. To verify your course selections, click

on the "Schedule" tab at the bottom of the page. When you're finished, be sure to exit web registration.

You can also conduct online course searches via web registration. The web registration course search tool allows you to search by subject, level, course number, core requirements, and by meeting time. The course search is updated on a real-time basis, so if you need a course you would like to sign up for, you immediately know whether there is still room in the course.

## CU CONNECT REGISTRATION

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 007
- ❖ 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 Waitlisted?
2 *	_____	# _____	_____	_____	_____
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 options**; or press 2 to **end** the call.



## CU CONNECT/WEB REGISTRATION INFORMATION-continued

### VERIFYING AND ADJUSTING YOUR SCHEDULE

Once you have registered, it is important that you verify your schedule either through CU Connect or the web. 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.

You can check your position on any course wait list either on the web at [www.colorado.edu/plus](http://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 course and a space becomes available, you will automatically be enrolled in the course and additional tuition and fees will be assessed. We, therefore, encourage you to check your wait list position often to avoid paying 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 the web. Credit card payments, using VISA, MasterCard or Discover, can be made on CU Connect only. 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 office at 1505 University Avenue.

### COURSE RESTRICTIONS

Some Boulder Evening 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 303-492-5145 and make an appointment with our academic advisor.

### GRADES

To access your grades through the web, log on to [www.colorado.edu/plus](http://www.colorado.edu/plus), 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 (007 for fall) followed by your student number and PIN. To determine the term code for previous semesters, the first two digits are the year and the last digit the semester (1=Spring, 4=Summer, 7=Fall).

### 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
- ❖ 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 the web. Please call our registration office at 303-492-5148 for more information on your stop.

If you have a Continuing Education term record for fall and no registration stop, please call 303-492-5148 between 8:30 a.m. and 5 p.m. Monday-Friday for further assistance. After hours, please call 303-492-5145 for a recorded message.





# BOULDER EVENING CREDIT CLASSES

## FULL TERM

### Courses On Mondays Courses begin September 11 and end December 11

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
ANTH 2010-3	300	90010	6:30-9:30 p.m.	Introduction to Physical Anthropology 1	natural science
ARAB 2110-3	300	90083	5:30-8:30 p.m.	Intermediate Arabic 1	foreign language
ASTR 1110-3	300	90013	7-10 p.m.	General Astronomy: The Solar System	natural science
ENGL 1191-3	300	90049	6-9 p.m.	Introduction to Creative Writing	none
FILM 4005-3	300	90052	6:30-9:30 p.m.	Screenwriting Workshop	none
HIST 4315-3	300	90059	6:30-9:30 p.m.	Civil War and Reconstruction	United States context
JOUR 4453-3	300	90047	7-10 p.m.	Advertising and Society	none
JOUR 5453-3	300	90048	7-10 p.m.	Advertising and Society	none
MGMT 3030-3	300	90063	6:30-9:30 p.m.	Critical Leadership Skills	none
PHIL 1010-3	300	90064	6:30-9:30 p.m.	Introduction to Western Philosophy: Ancient	historical context
PSYC 4684-3	300	90078	5:30-8:30 p.m.	Developmental Psychology	none
QRMS 1010-3	300	90079	6-9 p.m.	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills

### Courses On Mondays and Wednesdays Courses begin September 6 and end December 11

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
FINE 1212-3	300	90055	6:30-9:30 p.m.	Painting 1	none
MATH 1011-3	300	90061	5:30-7 p.m.	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills
SLHS 2325-4	300	90086	6-8 p.m.	American Sign Language 3	foreign language
SPAN 1010-5	302	90043	6:30-9 p.m.	Beginning Spanish 1	foreign language
UWRP 3020-3	301	90080	5:30-7 p.m.	Topics in Writing: Topics in <i>The New York Times</i>	written communication

### Courses On Mondays, Wednesdays, and Fridays Courses begin September 6 and end December 11

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
HEBR 1010-5	300	90056	11 a.m.-1 p.m.	Beginning Hebrew 1	foreign language

### Courses On Mondays and Thursdays Courses begin August 31 and end December 21

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
MATH 1300-5	300	90062	5:30-8:15 p.m.	Analytic Geometry and Calculus 1	quantitative reasoning and mathematical skills



# BOULDER EVENING CREDIT CLASSES

## FULL TERM-continued

### Courses On Tuesdays Courses begin September 5 and end December 5

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
COMM 2400-3	300	90016	6:30-9:30 p.m.	Communication and Society	contemporary societies
EMUS 3642-3	300	90085	6:30-9:30 p.m.	History of Jazz	none
ENGL 3000-3	300	90020	6-9 p.m.	Shakespeare for Nonmajors	literature and the arts
EPOB 1210-3	300	90021	6:30-9:30 p.m.	General Biology 1	natural science
EPOB 3020-3	300	90051	6-9 p.m.	Principles of Ecology	none
HIST 1010-3	300	90057	6-9 p.m.	Western Civilization 1: From Antiquity to the 16th Century	historical context
HIST 1015-3	300	90029	6:30-9:30 p.m.	History of the United States to 1865	United States context
PSCI 1101-3	300	90034	6-9 p.m.	The American Political System	contemporary societies or United States context
PSCI 2223-3	300	90035	6-9 p.m.	Introduction to International Relations	contemporary societies
PSYC 2606-3	300	90068	6:30-9:30 p.m.	Social Psychology	contemporary societies
RLST 2700-3	300	90037	6-9 p.m.	American Indian Religious Traditions	ideals and values or cultural and gender diversity
SPAN 2110-3	300	90044	6-9 p.m.	Second-Year Spanish 1	foreign language

### Courses On Tuesdays and Thursdays Courses begin September 5 and end December 14

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
ANTH 1150-3	300	90082	5:30-7 p.m.	Exploring a Non-Western Culture: Regional Cultures of Africa	cultural and gender diversity
BCOR 2000-4	300	90096	6-8 p.m.	Accounting and Financial Analysis 1	none
ECON 1078-3	300	90088	5:30-7 p.m.	Mathematical Tools for Economists 1	quantitative reasoning and mathematical skills
ECON 2010-4	300	90074	7:15-9:15 p.m.	Principles of Microeconomics	contemporary societies
EMUS 2772-3	300	90093	5:30-7 p.m.	World Musics	cultural and gender diversity
FINE 1012-3	300	90053	6:30-9:30 p.m.	Drawing 1	none
FINE 1171-3	300	90054	6:30-9:30 p.m.	Photography 1	none
SPAN 1010-5	301	90042	6:30-9 p.m.	Beginning Spanish 1	foreign language
UWRP 3020-3	302	90081	5:30-7 p.m.	Topics in Writing: Environmental Issues	written communication

### Courses On Wednesdays Courses begin September 6 and end December 6

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
BCOR 2010-3	300	90092	6-9 p.m.	Business Statistics	none
ENGL 1800-3	300	90090	6-9 p.m.	American Ethnic Literatures	cultural and gender diversity
ENGL 3060-3	300	90050	6-9 p.m.	Modern and Contemporary Literature	literature and the arts
FILM 3501-3	300	90022	7-10 p.m.	Film Production Management	none
HIST 3317-3	300	90058	6:30-9:30 p.m.	Seminar in the American West	critical thinking
PHIL 1600-3	300	90065	6:30-9:30 p.m.	Philosophy and Religion	ideals and values
PSYC 1001-3	300	90036	6:30-9:30 p.m.	General Psychology	none
SOCY 1016-3	300	90072	6-9 p.m.	Sex, Gender, and Society 1	cultural and gender diversity
THTR 1009-3	300	90045	6-9 p.m.	Introduction to Theatre	literature and the arts



**REGISTER BY MAIL USING THE POSTAGE PAID ENVELOPE**

# BOULDER EVENING CREDIT CLASSES

## Courses On Thursdays Courses begin September 7 and end December 14

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
COMM 1300-3	300	90015	6:30-9:30 p.m.	Public Speaking	none
ECON 2020-4	300	90084	6-9 p.m.	Principles of Macroeconomics	contemporary societies
FINE 1309-3	300	90024	6:30-9:30 p.m.	History of World Art I	literature and the arts
HIST 1113-3	300	90030	6:30-9:30 p.m.	The History of England to 1660	historical context
KAPH 3420-3	300	90033	6-9 p.m.	Nutrition, Health and Performance	natural science
PHIL 1200-3	300	90077	6:30-9:30 p.m.	Philosophy and Society	United States context or ideals and values
PSCI 2004-3	300	90066	6-9 p.m.	Survey of Western Political Thought	ideals and values
PSYC 4303-3	300	90069	6:30-9:30 p.m.	Abnormal Psychology	none
SOCY 4024-3	300	90041	6-9 p.m.	Juvenile Delinquency	contemporary societies

## SESSION I

### Courses On Mondays and Wednesdays Courses begin September 6 and end October 23

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
ENGL 1600-3	100	90019	6-9 p.m.	Masterpieces of American Literature	literature and the arts
ENGL 3000-3	100	90089	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
GEOG 1982-3	100	90027	6-9 p.m.	World Regional Geography	none
SOCY 1004-3	100	90039	6-9 p.m.	Deviance in U.S. Society	ideals and values

### Courses On Tuesdays and Thursdays Courses begin September 5 and end October 24

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
FILM 3563-3	100	90023	7-10 p.m.	Producing the Feature Film	none
GEOG 1001-4	100	90025	6-9 p.m.	Environmental Systems I - Climate and Vegetation	natural science
HIST 2100-3	100	90076	5:30-8:30 p.m.	Revolution in History: Russian Revolutions	historical context
JOUR 1002-3	100	90032	6-9 p.m.	Critical Thinking and Writing	none
SOCY 1015-3	100	90071	6-9 p.m.	U.S. Race and Ethnic Relations	United States context

## SESSION II

### Courses On Mondays and Wednesdays Courses begin October 25 and end December 11

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
COMM 2400-3	200	90017	6:30-9:30 p.m.	Communication and Society	contemporary societies
ENGL 1500-3	200	90018	6-9 p.m.	Masterpieces of British Literature	literature and the arts
GEOG 1992-3	200	90028	6-9 p.m.	Human Geographies	none
KAPH 3420-3	200	90060	6-9 p.m.	Nutrition, Health and Performance	natural science
PSCI 4734-3	200	90067	6-9 p.m.	Politics and Literature	critical thinking
SOCY 1006-3	200	90040	6:30-9:30 p.m.	The Social Construction of Sexuality	cultural and gender diversity

### Courses On Tuesdays and Thursdays Courses begin October 26 and end December 14

Course	Sec	Call #	Times	Course Title	Arts and Sciences Core
COMM 1300-3	200	90014	6-9 p.m.	Public Speaking	none
GEOG 1011-4	200	90026	6-9 p.m.	Environmental Systems 2 - Landscapes and Water	natural science
HIST 1025-3	200	90075	5:30-8:30 p.m.	History of the United States since 1865	United States context
JOUR 1001-3	200	90031	6-9 p.m.	Contemporary Mass Media	none
SOCY 1005-3	200	90070	6-9 p.m.	Social Conflict and Social Values	contemporary societies or ideals and values
SOCY 3151-3	200	90073	6-9 p.m.	Self in Modern Society	United States context or ideals and values

REGISTER IN PERSON 1505 UNIVERSITY AVENUE

**ANTHROPOLOGY****Exploring a Non-Western Culture:  
Regional Cultures of Africa  
ANTH 1150-3**

Explores a small number of cultures in a specific subregion of Africa from an integrated holistic viewpoint, emphasizing material adaptations, social patterns, ideas and values, and aesthetic achievements. Same as BLST 1150. Approved for arts and sciences core curriculum: cultural and gender diversity.

James Schechter, M.A.

Full Term - Section 300: Call No. 90082 Tuesdays and Thursdays, 5:30-7 p.m. Ramaley N1B23. \$360 (resident).

**Introduction to Physical Anthropology 1  
ANTH 2010-3**

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

Sue Woods, Ph.D.

Full Term - Section 300: Call No. 90010 Mondays, 6:30-9:30 p.m. Humanities 1B80. \$360 (resident).

**ARABIC****Intermediate Arabic 1  
ARAB 2110-3**

This course is the first semester of second year Arabic and covers advanced grammar and conversation. Prereq., ARAB 1020. Approved for arts and sciences core curriculum: foreign language.

Nadia Turk, Ph.D.

Full Term - Section 300: Call No. 90083 Mondays, 5:30-8:30 p.m. Chemistry 133. \$380 (resident).

**ASTRONOMY****General Astronomy: The Solar System  
ASTR 1110-3**

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

Joe Romig, Ph.D.

Full Term - Section 300: Call No. 90013 Mondays, 7-10 p.m. Hale 270. \$360 (resident).

**BIOLOGY****General Biology 1  
EPOB 1210-3**

Introduces molecular, cellular, genetic, and evolutionary biology. Emphasizes fundamental principles, concepts, facts and questions. Recommended for science majors who are not EPOB majors.

Approved for arts and sciences core curriculum: natural science.

Anna Arft, Ph.D.

Full Term - Section 300: Call No. 90021 Tuesdays, 6:30-9:30 p.m. Hellems 201. \$360 (resident).

**Principles of Ecology  
EPOB 3020-3**

Explores principles relating to ecosystem structure and function, properties and interactions of populations, adaptations and environmental influences, and organization and development of terrestrial and aquatic ecosystems. Prereq., EPOB 1210 and 1220 or equivalent.

Alcinda Lewis, Ph.D.

Full Term - Section 300: Call No. 90051 Tuesdays, 6-9 p.m. Clare Small 208. \$360 (resident).

**BUSINESS CORE****Accounting and Financial Analysis 1  
BCOR 2000-4**

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

TBA

Full Term - Section 300: Call No. 90096 Tuesdays and Thursdays, 6-8 p.m. Engineering Center CR 200. \$480 (resident).

**Business Statistics  
BCOR 2010-3**

Covers descriptive statistics, basic probability theory, statistical inference, correlation and regression analysis, and time series analysis. Uses statistical features of commonly used business spreadsheet software. Students use this software to solve problems using real business data. This course is a core requirement for all Business majors. Prereq., MATH 1050, 1060, 1070, or calculus and BCOR 1000.

Keith Brigham, M.B.A.

Full Term - Section 300: Call No. 90092 Wednesdays, 6-9 p.m. Duane Physics G2B47. \$360 (resident).

**SURVIVAL TIPS**

**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.

**NON-RESIDENTS OF COLORADO** are assessed tuition based on the price per semester hour and the number of semester hours for which they register. Non-residents may register for up to three (3) semester hours at the non-resident reduced rate cited in the most recent program publication. Non-residents registering for four (4) or more semester hours of credit courses offered by the Division of Continuing Education, regardless of program, are assessed non-resident 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.



**COMMUNICATION****Public Speaking  
COMM 1300-3**

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

Joel Guenther, M.A.

Full Term - Section 300: Call No. 90015  
Thursdays, 6:30-9:30 p.m. Economics 117. \$360 (resident).

David Steiner, Ph.D.

Session II - Section 200: Call No. 90014 Tuesdays and Thursdays, 6-9 p.m. Clare Small 209. \$360 (resident).

**Communication and Society  
COMM 2400-3**

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

Joel Guenther, M.A.

Full Term - Section 300: Call No. 90016 Tuesdays, 6:30-9:30 p.m. Economics 117. \$360 (resident).

Session II - Section 200: Call No. 90017 Mondays and Wednesdays, 6:30-9:30 p.m. Hellems 237. \$360 (resident).

**ECONOMICS****Mathematical Tools for Economists 1  
ECON 1078-3**

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

William Mertens, M.A.

Full Term - Section 300: Call No. 90088 Tuesdays and Thursdays, 5:30-7 p.m. Hellems 241. \$360 (resident).

**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. Students may not receive credit for ECON 2010 and 2011 or 1000 or 1001.

Approved for arts and sciences core curriculum: contemporary societies.

Jonathan Hill, M.A.

Full Term - Section 300: Call No. 90074 Tuesdays and Thursdays, 7:15-9:15 p.m. Guggenheim 206. \$480 (resident).

**Principles of Macroeconomics  
ECON 2020-4**

Provides an overview of the economy, examining the flows of resources and outputs and the factors determining the levels of income and prices. Explores policy problems of inflation, unemployment, and economic growth. This section requires world-wide-web access for the on-line recitation. May be taken before ECON 2010.

Students may not receive credit for ECON 2020 and 2021 or 1000 or 1001. Approved for arts and sciences core curriculum: contemporary societies.

Rachael Small, M.A.

Full Term - Section 300: Call No. 90084  
Thursdays, 6-9 p.m. and  
weekly on-line recitation.  
Economics 119.  
\$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.

George Moore, Ph.D.

Full Term - Section 300: Call No. 90049 Mondays, 6-9 p.m. Hellems 259. \$360 (resident).

**Masterpieces of British Literature  
ENGL 1500-3**

Introduces students to a range of major works of British literature, including at least one play by Shakespeare, a pre-twentieth-century English novel, and works by Chaucer and/or Milton. Approved for arts and sciences core curriculum: literature and the arts.

Patricia Thompson, M.A.

Session II - Section 200: Call No. 90018 Mondays and Wednesdays, 6-9 p.m. Clare Small 208. \$360 (resident).



Heather Sills is a fulltime student enrolled in a distance learning program. She decided to take Betsy Forrest's Geography class in order to have a little campus contact and because "I just wanted to know geography better."

**ENGLISH-cont.****Masterpieces of American Literature  
ENGL 1600-3**

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

Patricia Thompson, M.A.

Session I - Section 100: Call No. 90019 Mondays and Wednesdays, 6-9 p.m. Clare Small 208. \$360 (resident).

**American Ethnic Literatures  
ENGL 1800-3**

Introduces significant fiction by ethnic Americans. Explores both the literary and the cultural elements that distinguish work by these writers. Emphasizes materials from Native American, African American, and Chicano traditions. Same as ETHN 1800. Approved for arts and sciences core curriculum: cultural and gender diversity.

Joel Daehnke, Ph.D.

Full Term - Section 300: Call No. 90090 Wednesdays, 6-9 p.m. Economics 117. \$360 (resident).

**Shakespeare for Nonmajors  
ENGL 3000-3**

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

George Moore, Ph.D.

Full Term - Section 300: Call No. 90020 Tuesdays, 6-9 p.m. Hellems 237. \$360 (resident).

Pamela Hadas, Ph.D.

Session I - Section 100: Call No. 90089 Mondays and Wednesdays, 5:30-8:30 p.m. Economics 13. \$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.

Full Term - Section 300: Call No. 90050 Wednesdays, 6-9 p.m. Hellems 229. \$360 (resident).

**FILM STUDIES****Producing the Feature Film  
FILM 3563-3**

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

Frank Iannella, M.A.

Session I - Section 100: Call No. 90023 Tuesdays and Thursdays, 7-10 p.m. Guggenheim 205. \$360 (resident).

**Film Production Management  
FILM 3501-3**

This course familiarizes students with the principles of film management techniques as well as problem-solving methodologies developed specifically for the film industry. Emphasis will be placed on the technique of production boarding as the central tool in production management as well as budget and contracts information. The course is designed for students interested in media production as a career. FILM 3501 or 3563 may be used for partial fulfillment of major requirements.

Frank Iannella, M.A.

Full Term - Section 300: Call No. 90022 Wednesdays, 7-10 p.m. Guggenheim 206. \$360 (resident).

**Screenwriting Workshop  
FILM 4005-3**

Offers a creative workshop in which students write and rewrite several short screenplays as well as a treatment for a feature-length script. Examples from produced scripts are closely analyzed, with careful attention to aesthetics, mechanics, and business practices. May be repeated for a total of 6 credit hours.

Frank Iannella, M.A.

Full Term - Section 300: Call No. 90052 Mondays, 6:30-9:30 p.m. Humanities 1B70. \$360 (resident).



Russell Bailey is taking Geography through the Evening Credit program. The course fulfills a requirement for him and he likes it.

**FINE ARTS****Drawing 1  
FINE 1012-3**

Introductory course including pictorial design, life drawing, still life, and landscape, using varied drawing techniques and media.

Recommended for BFA majors instead of FINE 1002. May not be repeated.

Susanna Podboy, M.F.A.

Full Term - Section 300: Call No. 90053 Tuesdays and Thursdays, 6:30-9:30 p.m. Fine Arts N298. \$370 (resident).

**Photography 1  
FINE 1171-3**

This course introduces techniques and concepts of photography as art and emphasizes photography as a means to formal and expressive ends. Students will master the technical aspects of black and white photography including the functions of the SLR camera, the enlarger, and the chemical process of developing and printing black and white negatives. Students must have full access to a working 35mm manual camera with a built in working light meter. For fine arts majors. May not be repeated.

Greg Massey, M.F.A.

Full Term - Section 300: Call No. 90054 Tuesdays and Thursdays, 6:30-9:30 p.m. Fine Arts N185. ~~\$370~~ (resident). 420

**Painting 1  
FINE 1212-3**

This course will study the craft as well as the art of traditional oil painting as a student in Rembrandt's workshop would have, from conception, through studies in ink and red chalk, to the final work of art. Through the analysis of the works of both old and contemporary masters, students will investigate the technical aspects of visual language - color harmony, color temperature, light flow and eye movement. Recommended for BFA majors instead of FINE 1202. May not be repeated.

Joshua Fallik

Full Term - Section 300: Call No. 90055 Mondays and Wednesdays, 6:30-9:30 p.m. Fine Arts N103. ~~\$420~~ (resident). 370

**History of World Art 1  
FINE 1309-3**

Surveys major art styles from the Paleolithic period through the Renaissance, including European, Asian, and the Pre-Columbian/Islamic World. Emphasizes comparison of Western and non-Western visual expressions as evidence of differing cultural orientations. Students may not receive credit for both FINE 1309 and FINE 1109. Approved for arts and sciences core curriculum: literature and the arts.

Sherri Silverman, Ph.D.

Full Term - Section 300: Call No. 90024 Thursdays, 6:30-9:30 p.m. Hale 230. \$360 (resident).

**GEOGRAPHY****Environmental Systems 1 - Climate and Vegetation  
GEOG 1001-4**

Introduces the atmospheric environment of the Earth: elements and controls of climate and their implications for hydrology, vegetation, and soils. Emphasizes distribution of physical features across the Earth's surface and interactions between humans and their environment, especially those leading to global change on the decade to century time scale. Approved for arts and sciences core curriculum: natural science.

Steve Welter, Ph.D.

Session I - Section 100: Call No. 90025 Tuesdays and Thursdays, 6-9 p.m. Benson Earth Sciences 185. \$480 (resident).

**Environmental Systems 2 - Landscapes and Water  
GEOG 1011-4**

Introduces landscapes and flowing water, emphasizing the formation and geographic distribution of mountains, volcanoes, valleys, and deserts, and their shaping by rivers and glaciers. Includes field trips. Approved for arts and sciences core curriculum: natural science.

Steve Welter, Ph.D.

Session II - Section 200: Call No. 90026 Tuesdays and Thursdays, 6-9 p.m. Benson Earth Sciences 185. \$480 (resident).

**World Regional Geography  
GEOG 1982-3**

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

Betsy Forrest, M.A.

Session I - Section 100: Call No. 90027 Mondays and Wednesdays, 6-9 p.m. Guggenheim 205. \$360 (resident).

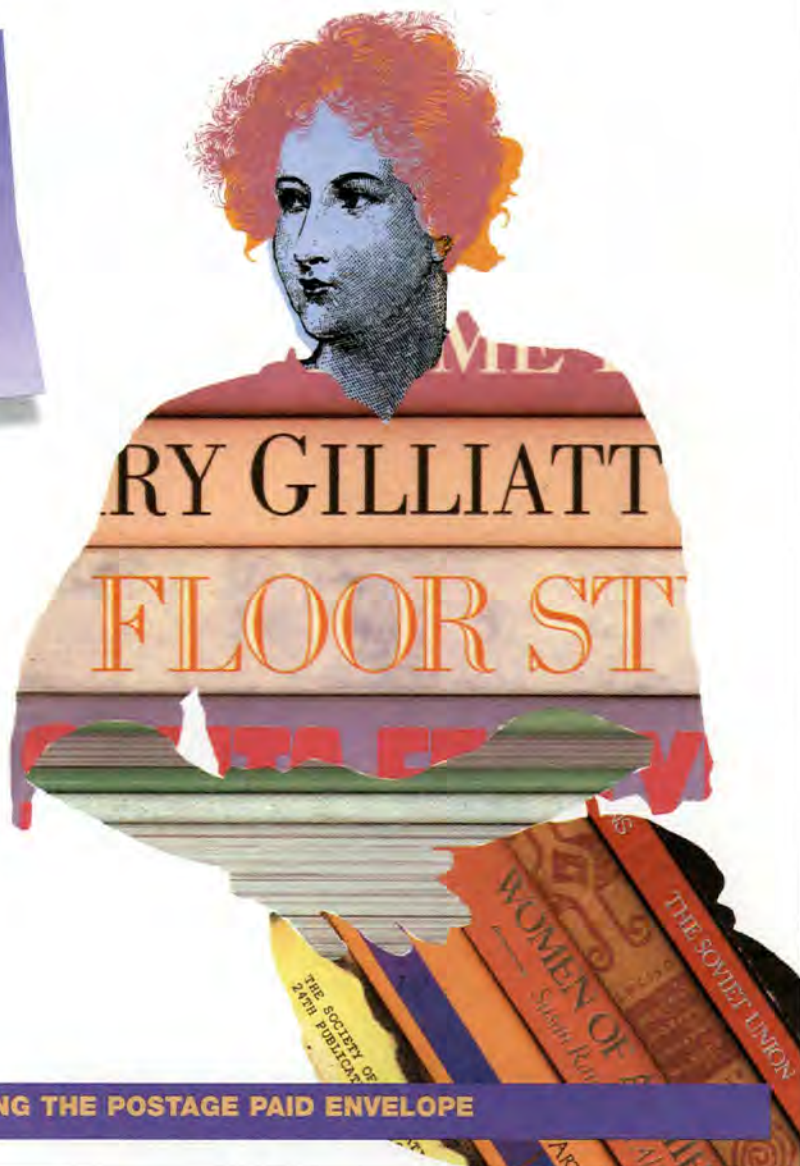
**Human Geographies  
GEOG 1992-3**

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

Betsy Forrest, M.A.

Session II - Section 200: Call No. 90028 Mondays and Wednesdays, 6-9 p.m. Guggenheim 205. \$360 (resident).

Additional fine arts courses are available through the Personal Enrichment program, pages 31-32.



**HEBREW****Beginning Hebrew 1  
HEBR 1010-5**

This is the introduction to Hebrew. This course will not be offered again until the Spring 2002 Semester. Approved for arts and sciences core curriculum: foreign language.

Uri Neil, J.D.

Full Term - Section 300: Call No. 90056 Mondays, Wednesdays, and Fridays, 11 a.m.-1 p.m. International English Center, 1030 13th St. \$600 (resident).

**HISTORY****Western Civilization 1:  
From Antiquity to the 16th Century  
HIST 1010-3**

Surveys the development of Western civilization from its beginnings in the ancient Near East through the Reformation of the 16th century.

Approved for arts and sciences core curriculum: historical context.

Phil Mitchell, Ph.D.

Full Term - Section 300: Call No. 90057 Tuesdays, 6-9 p.m. Economics 205. \$360 (resident).

**History of the United States to 1865  
HIST 1015-3**

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

Tony McGinnis, Ph.D.

Full Term - Section 300: Call No. 90029 Tuesdays, 6:30-9:30 p.m. Engineering Center CR 139. \$360 (resident).

**History of the United States since 1865  
HIST 1025-3**

Surveys social, economic, political, and cultural development of the United States from the close of the American Civil War to the present.

Approved for arts and sciences core curriculum: United States context.

Merle Funk, Ph.D.

Session II - Section 200: Call No. 90075 Tuesdays and Thursdays, 5:30-8:30 p.m. Hellems 267. \$360 (resident).

**The History of England to 1660  
HIST 1113-3**

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

Jean McGinnis, Ph.D.

Full Term - Section 300: Call No. 90030 Thursdays, 6:30-9:30 p.m. Engineering Center CR 150. \$360 (resident).

**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. Approved for arts and sciences core curriculum: historical context.

Merle Funk, Ph.D.

Session I - Section 100: Call No. 90076 Tuesdays and Thursdays, 5:30-8:30 p.m. Hellems 267. \$360 (resident).

**Seminar in the American West  
HIST 3317-3**

Examines the conflict between the popular perceptions of the American West and the reality of the region. In this course, students will develop critical thinking and writing skills as they discuss the "mythology" surrounding the West. Along with enhancing their knowledge and understanding of the region, students will explore the impact of the American West on the development of the nation. Approved for arts and sciences core curriculum: critical thinking.

James Fell, Ph.D.

Full Term - Section 300: Call No. 90058 Wednesdays, 6:30-9:30 p.m. Hellems 267. \$360 (resident).

**Civil War and Reconstruction  
HIST 4315-3**

Describes the forces at work in the antebellum period that led to sectional warfare; social, economic, and political changes effected by the war; the American agony of reconstruction; and the long-range results of that difficult era. Prereq., HIST 1015. Approved for arts and sciences core curriculum: United States context.

James Fell, Ph.D.

Full Term - Section 300: Call No. 90059 Mondays, 6:30-9:30 p.m. Hellems 267. \$360 (resident).





**JOURNALISM****Contemporary Mass Media  
JOUR 1001-3**

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

Jan Whitt, Ph.D.

Session II - Section 200: Call No. 90031 Tuesdays and Thursdays, 6-9 p.m. Hellems 193. \$360 (resident).

**Critical Thinking and Writing  
JOUR 1002-3**

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

Jan Whitt, Ph.D.

Session I - Section 100: Call No. 90032 Tuesdays and Thursdays, 6-9 p.m. Hellems 193. \$360 (resident).

**Advertising and Society  
JOUR 4453-3**

This course will examine the criticisms and contributions of advertising in society and the economy. Same as JOUR 5453.

Richard Goode-Allen, M.A.

Full Term - Section 300: Call No. 90047 Mondays, 7-10 p.m. Hellems 137. \$360 (resident).

**Advertising and Society  
JOUR 5453-3**

Same as JOUR 4453.

Richard Goode-Allen, M.A.

Full Term - Section 300: Call No. 90048 Mondays, 7-10 p.m. Hellems 137. \$360 (resident).

Betsy Forrest teaches World Regional Geography (GEOG 1982) and Human Geography (GEOG 1992) for the Evening Credit program. She says that class discussions are lively and inevitably touch on subjects that are powerful and sensitive—questions of religion and culture. This is her third year teaching for Continuing Education and she says, "I just love it. We get a nice mix of people in here and I really encourage students to say what they think." Betsy says that most students take Geography because they have to and, "what I want them to say at the end of the class is—geography's interesting and fun." Betsy is a CU grad student working on her PhD in Geography. She teaches both of these Geography courses in the Baker Hall Residential Program, and she teaches a Meteorology class, the Atmosphere Oceans Lab (ATOC 1070).

**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.

Full Term - Section 300: Call No. 90033 Thursdays, 6-9 p.m. Ekeley Science E1B20. \$360 (resident).

Luke Seaward, Ph.D.

Session II - Section 200: Call No. 90060 Mondays and Wednesdays, 6-9 p.m. Clare Small 207. \$360 (resident).

**MANAGEMENT****Critical Leadership Skills  
MGMT 3030-3**

Provides an opportunity to learn about and practice the skills required of all managers. These skills include leadership, negotiation, conducting performance appraisals, delegation, effective communication, interviewing and making hiring decisions, and managing employees with problem behaviors. Objectives of the course include developing self-awareness of strengths and weaknesses as a manager, gaining familiarity with theory-based skills, and developing proficiency in the use of these skills. Emphasizes experiential learning through group work, role-plays, and case analysis. Prereq., BCOR 2150.

Patrick Vann, Ph.D.

Full Term - Section 300: Call No. 90063 Mondays, 6:30-9:30 p.m. Economics 119. \$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 1000/1020. Prereq., one year of high school algebra or placement exam score for MATH 1000. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Bernard Gillett, M.A.

Full Term - Section 300: Call No. 90061 Mondays and Wednesdays, 5:30-7 p.m. Engineering Center CR 150. \$360 (resident).

**Analytic Geometry and Calculus 1****MATH 1300-5**

Topics include limits, derivatives of algebraic and trigonometric functions, applications of the derivative, integration, and applications of the definite integral. Students with credit in MATH 1080, 1090, and 1100 receive only 2 credit hours in MATH 1300. Students with credit in MATH 1300 may not receive credit in MATH 1081, 1310, or APPM 1350. For the Fall 2000 Semester, this course begins Thursday, August 31st and ends on Thursday, December 21st. Prereq., two years of high school algebra, one year of geometry, and 1/2 year of trigonometry or MATH 1000 through 1040. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Ira Becker, Ph.D.

Full Term - Section 300: Call No. 90062 Mondays and Thursdays, 5:30-8:15 p.m. Hale 260. \$600 (resident).

**MUSIC****World Musics****EMUS 2772-3**

Highlights music outside Western art tradition, using current ethnomusicological materials. This course will focus on Native American, African, Indian, Arabic and Indonesian musical cultures. Approved for arts and sciences core curriculum: cultural and gender diversity.

John Gray, Ph.D.

Full Term - Section 300: Call No. 90093 Tuesdays and Thursdays 5:30-7 p.m. Humanities 1B70. \$360 (resident).

**History of Jazz****EMUS 3642-3**

This course will explore the origins, development, and current trends of jazz music. Students will study significant artists and their music ranging from ragtime, blues, and swing through bebop, cool jazz, modal, and avant-garde.

John Davis, Ph.D.

Full Term - Section 300: Call No. 90085 Tuesdays, 6:30-9:30 p.m. Music C191. \$360 (resident).

Music lessons  
are available  
through the  
Applied Music  
Program,  
page 23.

**PHILOSOPHY****Introduction to Western Philosophy:  
Ancient****PHIL 1010-3**

Develops three related themes: the emergence in antiquity of a peculiarly scientific mode of thinking; the place of religious belief within this developing scientific world view; and the force of ethical speculation within the culture and political climates of ancient Greece and Rome. PHIL 1010 and 1020 may be taken in either order. Approved for arts and sciences core curriculum: historical context.

Jason Potter, Ph.D.

Full Term - Section 300: Call No. 90064 Mondays, 6:30-9:30 p.m. Ketchum 118. \$360 (resident).

**Philosophy and Society****PHIL 1200-3**

Introduces philosophical thought through critical analysis of our own society, its institutions, and principles. Approved for arts and sciences core curriculum: United States context or ideals and values.

Jason Potter, Ph.D.

Full Term - Section 300: Call No. 90077 Thursdays, 6:30-9:30 p.m. Muenzinger D439. \$360 (resident).

**Philosophy and Religion****PHIL 1600-3**

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

Lee Speer, M.A.

Full Term - Section 300: Call No. 90065 Wednesdays, 6:30-9:30 p.m. Hellems 241. \$360 (resident).

**POLITICAL SCIENCE****The American Political System****PSCI 1101-3**

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

Vincent McGuire, Ph.D.

Full Term - Section 300: Call No. 90034 Tuesdays, 6-9 p.m. Duane Physics G131. \$360 (resident).

**Survey of Western Political Thought****PSCI 2004-3**

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

Vincent McGuire, Ph.D.

Full Term - Section 300: Call No. 90066 Thursdays, 6-9 p.m. CDSS 230. \$360 (resident).



**Introduction to International Relations  
PSCI 2223-3**

Introduces the field of international relations, with general survey of the theories, histories, and problems of historical and contemporary relations among state and nonstate actors. Approved for arts and sciences core curriculum: contemporary societies.

J. Collins Ross, M.A.

Full Term - Section 300: Call No. 90035 Tuesdays, 6-9 p.m. Muenzinger E113. \$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.

Session II - Section 200: Call No. 90067 Mondays and Wednesdays, 6-9 p.m. Ketchum 303. \$360 (resident).

**PSYCHOLOGY****General Psychology  
PSYC 1001-3**

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

Michael Freedman, Ph.D.

Full Term - Section 300: Call No. 90036 Wednesdays, 6:30-9:30 p.m. Hellems 141. \$360 (resident).

**Social Psychology  
PSYC 2606-3**

Covers general psychological principles underlying social behavior. Analyzes major social psychological theories, methods, and topics, including attitudes, conformity, aggression, attraction, social perception, helping behavior, and group relations. Prereq., PSYC 1001. Similar to PSYC 4406; students may not receive credit for both 2606 and 4406. Approved for arts and sciences core curriculum: contemporary societies.

Patrick Vann, Ph.D.

Full Term - Section 300: Call No. 90068 Tuesdays, 6:30-9:30 p.m. Muenzinger E431. \$360 (resident).

**Abnormal Psychology  
PSYC 4303-3**

Examines borderline disorders as extreme variations of the normal personality. Focuses on major functional and organic disorders, theories of mental disorders, and methods of psychotherapy. Not open for credit to those who have credit for PSYC 3313 or 4313. Prereq., PSYC 1001.

Patrick Vann, Ph.D.

Full Term - Section 300: Call No. 90069 Thursdays, 6:30-9:30 p.m. Muenzinger E431. \$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.

Diane Martichuski, Ph.D.

Full Term - Section 300: Call No. 90078 Mondays, 5:30-8:30 p.m. Muenzinger E113. \$360 (resident).

**QUANTITATIVE REASONING  
AND MATHEMATICAL  
SKILLS****Quantitative Reasoning and  
Mathematical Skills  
QRMS 1010-3**

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

Full Term - Section 300: Call No. 90079 Mondays, 6-9 p.m. Engineering Center CR 105. \$360 (resident).

Matt Littlefield is a Biochem major from Vermont. He says that Evening Credit courses enable him to pick up credits he needs and still keep his day job.



**FIVE WAYS TO  
BEGINNING  
SEE PAGE 68  
AUGUST 7  
REGISTER**

**RELIGIOUS STUDIES****American Indian Religious Traditions  
RLST 2700-3**

Introduces religions of the peoples indigenous to the Americas. Concerns include ritual, mythology, and symbolism occurring throughout these many cultures in such areas as art, architecture, cosmology, shamanism, sustenance modes, trade, and history. Approved for arts and sciences core curriculum: ideals and values or cultural and gender diversity.

Denice Walker, M.A.

Full Term - Section 300: Call No. 90037 Tuesdays, 6-9 p.m. Economics 13. \$360 (resident).

**SOCIOLOGY****Deviance in U.S. Society  
SOCY 1004-3**

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

TBA

Session I - Section 100: Call No. 90039 Mondays and Wednesdays, 6-9 p.m. Clare Small 207. \$360 (resident).

**Social Conflict and Social Values  
SOCY 1005-3**

Explores origin, escalation, and resolution of social conflict. Focuses on major conflict theories, human values and social action, and use of simulation and negotiation exercises for learning conflict management skills. Approved for arts and sciences core curriculum: contemporary societies or ideals and values.

TBA

Session II - Section 200: Call No. 90070 Tuesdays and Thursdays, 6-9 p.m. Humanities 250. \$360 (resident).

**The Social Construction of Sexuality  
SOCY 1006-3**

Discusses current perspectives on the social determinants of sexuality. Emphasizes sociological critique, and analyzes the interfacing of societal, psychological, and cultural influences. Interactional perspective of human sexuality is presented. Same as WMST 1006. Approved for arts and sciences core curriculum: cultural and gender diversity.

TBA

Session II - Section 200: Call No. 90040 Mondays and Wednesdays, 6:30-9:30 p.m. Humanities 135. \$360 (resident).

**U.S. Race and Ethnic Relations  
SOCY 1015-3**

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

Duncan Rinehart, Ph.D.

Session I - Section 100: Call No. 90071 Tuesdays and Thursdays, 6-9 p.m. Muenzinger E123. \$360 (resident).

**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.

TBA

Full Term - Section 300: Call No. 90072 Wednesdays, 6-9 p.m. Hellems 199. \$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. Approved for arts and sciences core curriculum: United States context or ideals and values.

Duncan Rinehart, Ph.D.

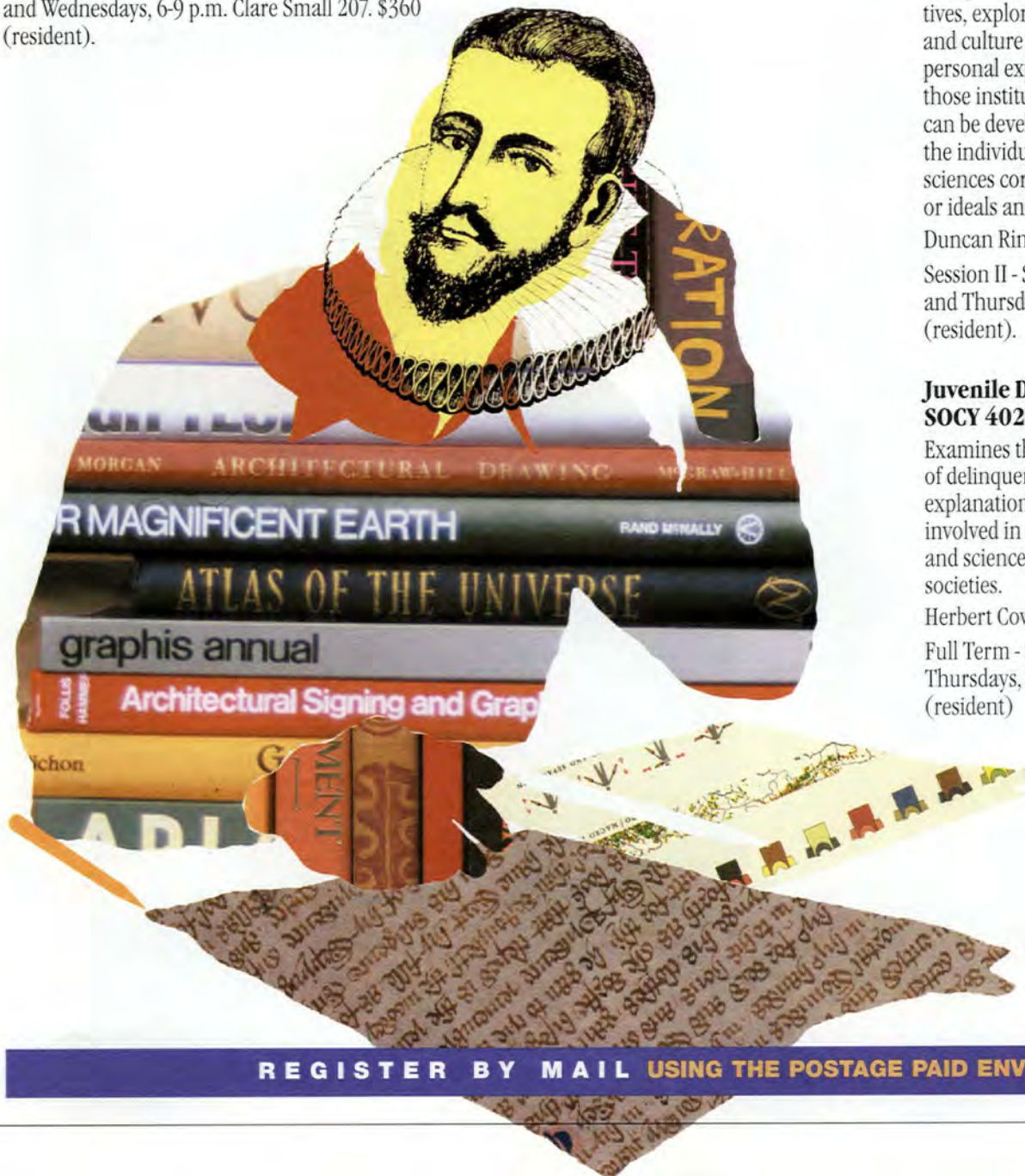
Session II - Section 200: Call No. 90073 Tuesdays and Thursdays, 6-9 p.m. Hellems 141. \$360 (resident).

**Juvenile Delinquency  
SOCY 4024-3**

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

Herbert Covey, Ph.D.

Full Term - Section 300: Call No. 90041 Thursdays, 6-9 p.m. Humanities 135. \$360 (resident)



REGISTER BY MAIL USING THE POSTAGE PAID ENVELOPE

**SPANISH****Beginning Spanish 1  
SPAN 1010-5**

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

Cassandra Gerber, M.A.

Full Term - Section 301: Call No. 90042 Tuesdays and Thursdays, 6:30-9 p.m. Ketchum 234. \$620 (resident).

Javier Garces, B.A.

Full Term - Section 302: Call No. 90043 Mondays and Wednesdays, 6:30-9 p.m. Helms 191. \$620 (resident).

**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.

Javier Garces, B.A.

Full Term - Section 300: Call No. 90044 Tuesdays, 6-9 p.m. Chemistry 131. \$380 (resident).

**SPEECH, LANGUAGE AND  
HEARING SCIENCES****American Sign Language 3  
SLHS 2325-4**

Continuation of SLHS 2314 and covers ASL literature, advanced grammatical structures, idiomatic expressions, and deaf culture. Prereq., SLHS 2315 or equivalent. Approved for arts and sciences core curriculum: foreign language.

TBA

Full Term - Section 300: Call No. 90086 Mondays and Wednesdays, 6-8 p.m. Muenzinger E123. \$500 (resident).

Conversational language courses are available through the Personal Enrichment program, pages 32-34.

**THEATRE****Introduction to Theatre  
THTR 1009-3**

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

David Steiner, Ph.D.

Full Term - Section 300: Call No. 90045 Wednesdays, 6-9 p.m. Humanities 1B80. \$360 (resident).

Lori Fox is finishing work on an AA degree and a degree in Addictions Counseling. Evening Credit classes are a good way to pick up the pace. She says, "I've always wanted to go to CU and Geography appealed to me—I love to travel."

**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.

Full Term - Section 301: Call No. 90080 Mondays and Wednesdays, 5:30-7 p.m. Clare Small 301. \$360 (resident).

**Environmental Issues**

Anne Bliss, Ph.D.

Full Term - Section 302: Call No. 90081 Tuesdays and Thursdays, 5:30-7 p.m. Clare Small 302. \$360 (resident).



## 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 entirely via the World Wide Web, with all communication with the instructor and among 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](http://www.Colorado.EDU/cewww).

### SECTION LEGEND

65x = print based correspondence course

64x = online, self-paced course

58x = online, term-based course

### ANTHROPOLOGY

ANTH 1030 3	.....Principles of Anthropology 1 Section 650	Tuition: \$270
ANTH 1040 3	.....Principles of Anthropology 2 Section 650	Tuition: \$270
ANTH 2010 3	.....Introduction to Physical Anthropology 1 Section 650	Tuition: \$270
ANTH 2020 3	.....Introduction to Physical Anthropology 2 Section 650	Tuition: \$270
ANTH 2070 3	.....Bones, Bodies, and Disease Section 640	Tuition: \$330
ANTH 2200 3	.....Introduction to Archaeology Section 650	Tuition: \$270

### COMMUNICATION

COMM 2400 3	.....Communication and Society Section 640	Tuition: \$330
COMM 2400 3	.....Communication and Society Section 650	Tuition: \$330
COMM 4600 3	.....Senior Seminar: Computer-Mediated Communication in Organizations Section 640	Tuition: \$330

### COMPUTER SCIENCE

CSCI 2830 1	.....Special Topics: Social, Ethical, and Professional Issues in Computer Science Section 650	Tuition: \$110
CSCI 2830 1	.....Special Topics: Social, Ethical, and Professional Issues in Computer Science Section 640	Tuition: \$110

### ECONOMICS

ECON 2010 4	.....Principles of Microeconomics Section 650	Tuition: \$440
ECON 2010 4	.....Principles of Microeconomics Section 640	Tuition: \$440
ECON 2020 4	.....Principles of Macroeconomics Section 650	Tuition: \$440
ECON 2020 4	.....Principles of Macroeconomics Section 640	Tuition: \$440
ECON 3403 3	.....International Economics and Policy Section 640	Tuition: \$330
ECON 4111 3	.....Money and Banking Systems Section 640	Tuition: \$330

### EDUCATION

EDUC 4161 3	.....Children's Literature Section 650	Tuition: \$270
EDUC 4322 3	.....Literature for Middle School and Secondary School Teachers Section 650	Tuition: \$270

**ENGLISH**

ENGL 1191 3	.....Introduction to Creative Writing Section 650	.....Tuition: \$270
ENGL 1260 3	.....Introduction to Women's Literature Section 650	.....Tuition: \$270
ENGL 1600 3	.....Masterpieces of American Literature Section 650	.....Tuition: \$270
ENGL 2021 3	.....Introduction to Poetry Workshop Section 650	.....Tuition: \$270
ENGL 3000 3	.....Shakespeare for Nonmajors Section 650	.....Tuition: \$330
ENGL 3051 3	.....Intermediate Fiction Workshop Section 640	.....Tuition: \$330
ENGL 3051 3	.....Intermediate Fiction Workshop Section 650	.....Tuition: \$330
ENGL 3060 3	.....Modern and Contemporary Literature Section 650	.....Tuition: \$270
ENGL 3081 3	.....Intermediate Nonfiction Workshop: Travel Journal Writing Section 650	.....Tuition: \$270
ENGL 3553 3	.....Chaucer: The Canterbury Tales Section 650	.....Tuition: \$270
ENGL 3563 3	.....Shakespeare 1 Section 650	.....Tuition: \$270
ENGL 3573 3	.....Shakespeare 2 Section 650	.....Tuition: \$270
ENGL 3655 3	.....American Literature to 1860 Section 650	.....Tuition: \$330
ENGL 3655 3	.....American Literature to 1860 Section 640	.....Tuition: \$330
ENGL 3665 3	.....American Literature after 1860 Section 650	.....Tuition: \$330
ENGL 3665 3	.....American Literature after 1860 Section 640	.....Tuition: \$330
ENGL 4100 3	.....The English Language Section 650	.....Tuition: \$270

**FINE ARTS**

FINE 1012 3	.....Basic Drawing (Multimedia) Section 650	.....Tuition: \$270
FINE 3636 3	.....Art for the Elementary Teacher Section 650	.....Tuition: \$270

**GEOGRAPHY**

GEOG 1001 4	.....Environmental Systems 1: Climate and Vegetation Section 650	.....Tuition: \$360
GEOG 1011 4	.....Environmental Systems 2: Landscapes and Water Section 650	.....Tuition: \$360
GEOG 1992 3	.....Human Geographies Section 640	.....Tuition: \$330

**GEOLOGY**

GEOG 1010 3	.....Introduction to Geology 1 Section 640	.....Tuition: \$330
GEOG 1010 3	.....Introduction to Geology 1 Section 650	.....Tuition: \$330
GEOG 1020 3	.....Introduction to Geology 2 Section 650	.....Tuition: \$270

**HISTORY**

HIST 1010 3	.....Western Civilization 1 - Antiquity to the 16th Century Section 650	.....Tuition: \$270
HIST 1015 3	.....History of the United States to 1865 Section 650	.....Tuition: \$270
HIST 1020 3	.....Western Civilization 2 - 16th Century to the Present Section 650	.....Tuition: \$270
HIST 1025 3	.....History of the United States since 1865 Section 650	.....Tuition: \$270
HIST 2117 3	.....History of Colorado Section 640	.....Tuition: \$330
HIST 2117 3	.....History of Colorado Section 650	.....Tuition: \$330
HIST 4217 3	.....The American West in the Nineteenth Century Section 650	.....Tuition: \$270
HIST 4227 3	.....The American West in the Twentieth Century Section 650	.....Tuition: \$270
HIST 4733 3	.....The Russian Revolution and the Soviet Regime Section 640	.....Tuition: \$330

**JOURNALISM**

JOUR 3771 3	.....Mass Communication History Section 640	.....Tuition: \$330
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**KINESIOLOGY AND APPLIED PHYSIOLOGY**

KAPH 3420 3 .....Nutrition, Health, and Performance Section 650 .....Tuition: \$270

**MATHEMATICS**

MATH 1011 3 .....Fundamentals and Techniques of College Algebra Section 650 .....Tuition: \$270

MATH 1021 2 .....Numerical and Analytical College Trigonometry Section 650 .....Tuition: \$180

MATH 1071 3 .....Finite Mathematics for Social Science and Business Section 650 .....Tuition: \$270

MATH 1081 3 .....Calculus for Social Science and Business Section 650 .....Tuition: \$270

MATH 1300 5 .....Analytic Geometry and Calculus 1 Section 650 .....Tuition: \$450

MATH 2300 5 .....Analytic Geometry and Calculus 2 Section 650 .....Tuition: \$450

**MUSIC**

EMUS 1081 3 .....Basic Music Theory Section 650 .....Tuition: \$270

**PHILOSOPHY**

PHIL 1000 3 .....Introduction to Philosophy Section 650 .....Tuition: \$270

PHIL 1100 3 .....Ethics Section 650 .....Tuition: \$270

PHIL 1600 3 .....Philosophy and Religion Section 650 .....Tuition: \$270

PHIL 4040 3 .....Twentieth-Century Philosophy Section 650 .....Tuition: \$270

**POLITICAL SCIENCE**

PSCI 1101 3 .....The American Political System Section 650 .....Tuition: \$270

PSCI 2223 3 .....Introduction to International Relations Section 650 .....Tuition: \$270

**PSYCHOLOGY**

PSYC 1001 3 .....General Psychology Section 650 .....Tuition: \$270

PSYC 2012 3 .....Biological Psychology 1 Section 650 .....Tuition: \$330

PSYC 2012 3 .....Biological Psychology 1 Section 640 .....Tuition: \$330

PSYC 2022 3 .....Biological Psychology 2 Section 650 .....Tuition: \$270

PSYC 2303 3 .....Psychology of Adjustment Section 650 .....Tuition: \$270

PSYC 2606 3 .....Social Psychology Section 650 .....Tuition: \$270

PSYC 3101 4 .....Statistics and Research Methods in Psychology Section 640 .....Tuition: \$440

PSYC 3101 4 .....Statistics and Research Methods in Psychology Section 650 .....Tuition: \$440

PSYC 4303 3 .....Abnormal Psychology Section 650 .....Tuition: \$270

PSYC 4456 3 .....Psychology of Personality Section 650 .....Tuition: \$270

PSYC 4511 3 .....History of Psychology Section 650 .....Tuition: \$270

PSYC 4684 3 .....Developmental Psychology Section 650 .....Tuition: \$270

**SOCIOLOGY**

SOCY 1001 3 .....Analyzing Society Section 650 .....Tuition: \$270

SOCY 1005 3 .....Social Conflict and Social Values Section 650 .....Tuition: \$270

SOCY 1016 3 .....Sex, Gender and Society 1 Section 650 .....Tuition: \$270

SOCY 4014 3 .....Criminology Section 640 .....Tuition: \$330

SOCY 4014 3 .....Criminology Section 650 .....Tuition: \$330

SOCY 4025 3 .....Conflict Management in Social Systems Section 640 .....Tuition: \$330

SOCY 4086 3 .....Family and Society Section 641 .....Tuition: \$330



**SPEECH, LANGUAGE AND HEARING SCIENCES**

SLHS 4035 3	.....The Linguistic Structure of ASL Section 580	.....Tuition: \$580
SLHS 5035 3	.....The Linguistic Structure of ASL Section 580	.....Tuition: \$580
SLHS 5045 3	.....Discourse Analysis of ASL Section 580	.....Tuition: \$580
SLHS 5055 3	.....Assessing 1st and 2nd Languages Section 580	.....Tuition: \$580

**UNIVERSITY WRITING PROGRAM**

UWRP 3020 3	.....Topics in Writing: <i>Catcher in the Rye</i> Section 580	.....Tuition: \$452
UWRP 3040 3	.....Writing on Business and Society Section 580	.....Tuition: \$452

**COMPUTER APPLICATIONS WEB-BASED COURSES**

**The Internet-Effective Use of Your Time  
CACs 130-31W ONLINE**

A 'brown-bag' series about the web, on the web. Topics include: Internet "Newbie" instruction on the Internet, Electronic Mail (including mail-borne virus protection), Searching for information on the Internet, Searching for and downloading files on the Internet, Anatomy of an HTML (Web) document, Personal Computer Popular Internet Software *Deja Vu* All Over Again - Revisiting Information on the 'Net, Come here Watson, I Need You - Audio and Video on the 'Net, Shopping on the Web - Are You Ready for Virtual Mall Mania?, Keeping Kids Safe on the 'Net. The course is conducted entirely online. Prerequisite: CACS 100 Computer Literacy or equivalent. Must have access to WWW ready computer.

Sid Eaton  
Section 31W: September 12-November 21  
Tuition: \$200

**Excel 97 (8.0) Level II-Math Track  
CAPC 335-31W Online**

The focus of this track is on calculating and checking results. A corollary track called the Features Track covers Outlining, Charting/Graphing, Data (base) Manipulation, Import/Export, and other features. Topics include: review of Excel basic features (Workbook and worksheet manipulation, editing, copying, and moving cells, absolute and relative references, basic formulae, and cell and cell content formatting); using Excel functions including math, financial, date/time, logical, and lookup; working with cell reference labels and names; working with tables and arrays; basic auditing/checking your results. Note: The first week of this course is a review. Individuals who sign up for this course are expected to be comfortable with their skill in the areas covered in the review. The course is conducted entirely online. Prerequisite: CAPC 234 Excel 97 (8.0) Level I or equivalent. Must have access to WWW ready computer.

Sid Eaton  
Section 31W: September 12-October 17  
Tuition: \$200

**Excel 97 (8.0) Level II-Features Track  
CAPC 336-31W Online**

The focus of this track is on Outlining, Charting/Graphing, Data (base) Manipulation, Import/Export, and other features. A corollary track called the Math Track covers calculating and checking results. Topics include: review of Excel basic features (Workbook and worksheet manipulation, editing, copying, and moving cells, absolute and relative references, basic formulae, and cell and cell content formatting); charting and graphing results; summarizing and outlining information; building, sorting, and extracting information from spreadsheet databases; importing and exporting information. Note: The first week of this course is a review. Individuals who sign up for this course are expected to be comfortable with their skill in the areas covered in the review. The course is conducted entirely online. Prerequisite: CAPC 234 Excel 97 (8.0) Level I or equivalent. Must have access to WWW ready computer.

Sid Eaton  
Section 31W: October 17-December 5  
Tuition: \$200

**APPLIED MUSIC**

During fall and spring semesters the College of Music and Independent Learning offer private instruction for voice and most popular instruments. Group classes are offered for beginning guitar and piano. Private lessons are by arrangement. Students must furnish instruments, except piano. 9 hours of instruction. 2 semester hours credit. Tuition: \$270.

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

**Additional distance learning courses are available through the CATECS program, pages 25-26.**

# 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 complete. 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](http://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 1901 Consumer Education and Economics  
 HBUS 2355 Beginning Accounting 1  
 HBUS 2455 Beginning Accounting 2  
 HBUS 2756 Business English and Communication

## ENGLISH

HENG 0155 Basic Grammar  
 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 3955 Advanced Algebra 1  
 HMTH 4055 Advanced Algebra 2  
 HMTH 4356 Precalculus 1: Analytical Geometry and Algebra  
 HMTH 4456 Precalculus 2: Trigonometry

## SCIENCE

HSCI 0155 Health Science 1  
 HSCI 0255 Health Science 2  
 HSCI 2556 Biology 1  
 HSCI 2656 Biology 2  
 HSCI 5155 Biology 3: Advanced Biology

## SOCIAL STUDIES

HSST 0155 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 3155 World History 1  
 HSST 3255 World History 2  
 HSST 3356 American History 1  
 HSST 3456 American History 2  
 HSST 3755 American Government: Theories, Policies, and Politics  
 HSST 3855 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](http://www.colorado.edu/cewww)  
 303-492-8757 (toll free, 800-331-2801)

# GRADUATE ENGINEERING COURSES DELIVERED TO YOUR WORKSITE.

## CATECS (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, Mechanical Engineering and Telecommunications.

- ❖ Courses given 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.

### AEROSPACE ENGINEERING

ASEN 5054	Operations Research Models for System Engineering	Morgenthaler	2-3:15 p.m.	TR
ASEN 5227	Aerospace Mathematics 1	Morgenthaler	11 a.m.-12:15 p.m.	TR
ASEN 5335	Aerospace Environment	Forbes	9-9:50 a.m.	MWF

### CIVIL ENGINEERING

CVEN 5246	Legal Aspects of Construction	Songer	5-6:15 p.m.	TR
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### COMPUTER SCIENCE

CSCI 5535	Fundamentals of Programming Languages	Diwan	1-1:50 p.m.	MWF
CSCI 5582	Artificial Intelligence	Martin	11 a.m.-12:15 p.m.	MW
CSCI 5654	Linear Programming	Gabow	2-3:15 p.m.	TR
CSCI 7000	Principles of Architecting Software Systems	Wolf	4-5:15 p.m.	MF
CSCI 7717	Topics in Database Systems	King	5:30-6:45 p.m.	MW

### ELECTRICAL & COMPUTER ENGINEERING

ECEN 5139	Synthesis of VLSI Systems	Somenzi	10-10:50 a.m.	MWF
ECEN 5458	Sampled Data & Digital Control Systems 1	Pao	8-9:15 a.m.	TR
ECEN 5797	Power Electronics 1	Erickson	3-3:50 p.m.	MWF
ECEN 5831	Brains, Minds & Computers	Wachtel/Beeman	12:30-1:45 p.m.	TR
ECEN 6003	Digital VLSI Circuit Design	Khatri	9:30-10:45 a.m.	TR

### ENGINEERING MANAGEMENT

EMEN 4830	Professional Communication for Engineering Managers	Fisher	1-1:50 p.m.	MWF
EMEN 5010	Introduction to Engineering Management	Daughton	2-4:30 p.m.	M
EMEN 5020	Accounting & Finance for Engineering Managers	Hensler	2-4:30 p.m.	W
EMEN 5030	Project Management Systems	Daughton	3:30-4:45 p.m.	TR
EMEN 5300	Management of R&D	Usrey	2-4:30 p.m.	F
EMEN 5500	Operations Management	Usrey	5-7:30 p.m.	R

### MECHANICAL ENGINEERING

MCEN 5020	Methods of Engineering Analysis 1	Geers	8-8:50 a.m.	MWF
MCEN 5023	Solid Mechanics 1	Subbarayan	3-4:45 p.m.	TR
MCEN 5146	Applied Statistics in R&D	Clough	3:30-4:45 p.m.	TR
MCEN 5166	Electronics Packaging & Manufacturing	Mahajan	11 a.m.-12:15 p.m.	TR

**TELECOMMUNICATIONS**

TLEN 5300	.....Telecommunications Theory & Applications	.....Mitchell	.....8-9:15 a.m.	.....TR
	.....Recitation		.....9:25-10:15 a.m.	.....T
TLEN 5310	.....Telecommunications Systems	.....Mitchell	.....11-11:50 a.m.	.....MWF
	.....Recitation		.....12-12:50 p.m.	.....M
TLEN 5330	.....Data Communications 1	.....Gates	.....7:30-8:45 a.m.	.....MF
	.....Recitation		.....8:55-9:45 a.m.	.....M
TLEN 5340	.....Digital Telecommunications Networks	.....Thompson	.....5-7:30 p.m.	.....M
TLEN 5350	.....Satellite Communications	.....Mitchell	.....10-10:50 a.m.	.....MWF
	.....Recitation		.....9-9:50 a.m.	.....W
TLEN 5500	.....Cable TV	.....Bardsley	.....11 a.m.-12:15 p.m.	.....TR
TLEN 5510	.....Wireless Communications	.....Brown	.....2-2:50 p.m.	.....MWF
TLEN 5700	.....Telecommunications Capstone Seminar	.....Brown	.....8-8:50 a.m.	.....W
TLEN 5830	.....Competitive Local Loops	.....Barnes/Bardsley	.....9:30-10:45 a.m.	.....TR
TLEN 5834	.....Network Programming	.....Robertson	.....5-7:30 p.m.	.....T
TLEN 5835	.....Economics, Policy & Management	.....Jackson	.....2-3:15 p.m.	.....TR

**WEB COURSES IN TELECOMMUNICATIONS**

TLEN 5500W	.....Cable TV	.....Bardsley
TLEN 5600W	.....Telecommunications Seminar	.....Schoechle
TLEN 5700W	.....Telecommunications Capstone Seminar	.....Brown
TLEN 5832W	.....Engineering Economics	.....Alleman

**HOW TO REGISTER FOR CATECS COURSES**

**REGISTRATION FOR FALL 2000 COURSES: JULY 17-AUGUST 11**

**LATE REGISTRATION: AUGUST 12-SEPTEMBER 1**

1. Complete the Registration Form available from our web site at [www.colorado.edu/CATECS](http://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 Bookstore 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](http://cubooks.colorado.edu)
5. Tuition for all CATECS courses is \$1,200 per course.

**FOR MORE INFORMATION ABOUT CATECS, COURSES OFFERED AND REGISTRATION:**

(303) 492-6331  
[www.colorado.edu/CATECS](http://www.colorado.edu/CATECS)

**Additional  
 engineering  
 courses are  
 available for  
 registration  
 through  
 ACCESS.  
 See page 27.**

## ADDITIONAL CREDIT OPPORTUNITIES TO MEET COMMUNITY NEEDS.

### 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 on-campus undergraduate or graduate courses.

Registration for Fall semester begins Friday, August 25 and classes begin Monday, August 28. Call 303-492-6226 for more information or visit the ACCESS web site at [www.colorado.edu/conted/access.htm](http://www.colorado.edu/conted/access.htm)

### HIGH SCHOOL CONCURRENT PROGRAM

High school students interested in the challenge of university coursework may enroll in credit courses at the University of Colorado at Boulder through the High School Concurrent Program. In addition to earning college credit, students may also earn credit toward high school graduation requirements.

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 303-492-6226 for an application and more information or visit the High School Concurrent web site at [www.colorado.edu/conted/hconcur.htm](http://www.colorado.edu/conted/hconcur.htm)

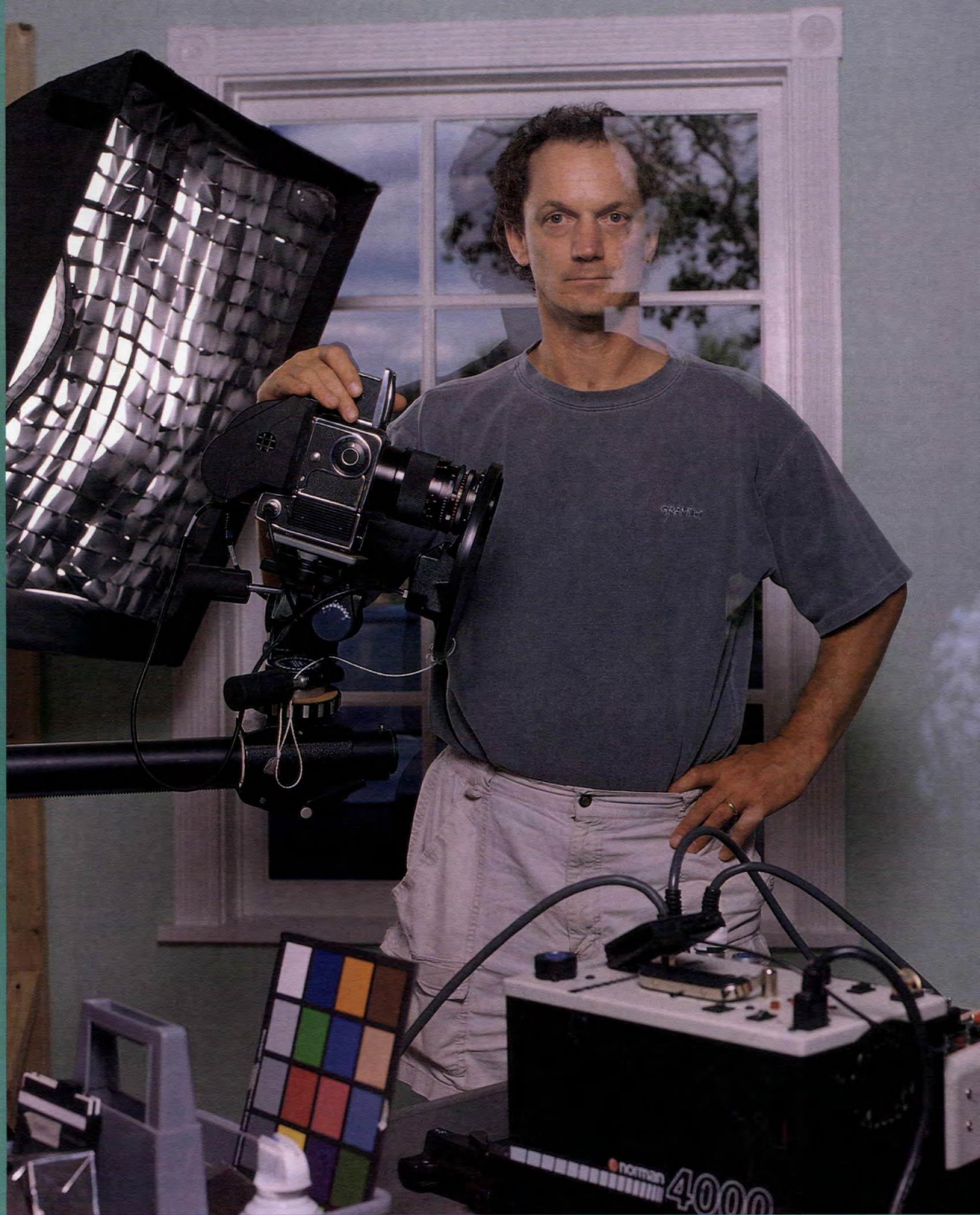
### SUMMER SESSION

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 (most meet for five weeks) 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 303-492-5146 or visit the web site ([www.colorado.edu/sacs/summer](http://www.colorado.edu/sacs/summer)) to request a Summer Session catalog.

Julie Moore registered for Betsy Forrest's Geography class as "a personal choice." She's been taking a load of math and science, trying to get all of her requirements out of the way, initially with Dental Hygiene in mind and now, with an eye on a Biology degree. A part-time student and a mom, she was feeling pretty discouraged and burned out when her advisor made a great suggestion. He said, "Give yourself a break. Your GPA is high enough. Take something you really love." Julie says, "I did and it's one of the best decisions I've made in a long time about school." She adds that instructor Betsy Forrest is great. "I lucked out big time on this one. She's not a trickster. She's real. She's up front. And she's really interested in the diversity of interests and issues that come up. We have people in this class who have been all over the world and we have great discussions. I always look forward to class."





## COURSES TAILORED TO YOUR INTERESTS—IN A CONVENIENT, NONCREDIT FORMAT.

**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, literature, and fine arts classes. What's your passion? What's your pleasure?

- ❖ Bonjour! Hola! Learn a new language.
- ❖ Write that Great American Novel.
- ❖ Explore Boulder's rich history.
- ❖ 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. Full refunds are given for withdrawals prior to the first class meeting. If you need to withdraw from a course, contact the Division of Continuing Education. Please keep in mind that non-attendance or non-payment does not constitute withdrawal.

Courses may be cancelled due to low enrollment. Please register one week prior to the first class meeting to ensure this doesn't happen to a course you intend to take. Only pre-registered students may attend class.

### 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.

Tim Benko teaches Digital and Studio Photography. He says the class is designed for serious hobbyists and for people with good basic skills who are thinking about getting into studio work using the new technology. When it comes to digital imagery, Tim is the man. He's been in the business for 20 years and in digital since the first real quality equipment became available—about six years ago. "When I started out," he says, "there was nobody to learn from and nothing to choose from—only a couple of camera options. Now there are hundreds." And there's Tim, who will share what he knows about the business, while giving students a chance to work with state-of-the-art studio equipment. Tim keeps busy with a broad range of advertising and marketing assignments, including the Continuing Education catalog. So if you'd like a closer look at his work, you've already got an excellent sample. After growing up in San Francisco, Tim came to Colorado lured by peaks and trails. High country vistas inspired his initial interest in photography, and what began as a hobby has become a successful career. More recently he's gravitated to diving and underwater photography. Ask him about his last trip, to



**PERSONAL ENRICHMENT, FALL 2000**

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- Figure Drawing
- Water Media
- Sculpture: Stonecarving
- Introduction to Drawing
- Introduction to Oil Painting
- Basic Sculpture
- Commercial and Digital Photo Workshop

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

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- How to Write Magazine Articles...and Get Them Published
- Creative Writing
- Short Story Workshop
- The Children's Book: Writing, Illustrating and Publishing
- Poetry Workshop
- Topics in Literature





**FINE ARTS**

**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.

Roddy MacInnes, M.F.A. candidate at CU-Boulder, received his B.A. in Photographic Studies from Napier University in Edinburgh, Scotland. He has traveled extensively in the U.S. and Canada.

Section 300: Wednesdays, September 13-November 1, 6:30-8:30 p.m. Hellems 247. 8 sessions. \$130.

**Creative Photography Workshop  
NCFA 002**

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

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

Section 300: Thursdays, September 14-November 9, 7:30-9:30 p.m. Economics 205. 9 sessions. \$140.

**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.

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 300: Wednesdays, September 6-October 25, 6:30-8:30 p.m. Fine Arts N298. 8 sessions. \$140.

**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 300: Mondays, September 11-October 30, 6:30-8:30 p.m. Fine Arts C103. 8 sessions. \$140.

**Sculpture: Stonecarving  
NCFA 011**

Students will learn to conceptualize sculptural images and ideas and express them in stone. To bring out the elements of a basic sculptural form we will examine basic techniques referring to: reducing the stone block, pitching and punching, rubbing and polishing. An illustrated discussion of stone sculptures, tools and materials, and where to purchase these are included.

Barbara Cox, M.A., has taught art classes since 1971.

Section 300: Mondays, September 11-October 30, 6:30-8:30 p.m. Fine Arts C140. 8 sessions. \$140.

**Introduction to Drawing  
NCFA 020**

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

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 300: Mondays, September 11-October 30, 6:30-8:30 p.m. Fine Arts C153. 8 sessions. \$140.

Additional fine arts courses are available through the Boulder Evening program, page 13.

Vijay Agarwal is taking Basic Investing "to refresh my investment background. Eventually I'm going to get my broker license. CU is a good choice for me because it's close by and the price is right."



**FINE ARTS-cont.****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., is a painter who has exhibited her work in New York and India.

Section 300: Wednesdays, September 6-October 25, 6:30-8:30 p.m. Fine Arts C103. 8 sessions. \$140.

**Basic Sculpture  
NCFA 054**

Designed for students of all levels, this class covers the fundamental principles and design elements of sculpture. Students will use a variety of tools and materials for basic modeling, building and sculptural fabrication techniques. Demonstrations will include the use and application of clay, stone, plaster, metal and wood.

Barbara Cox, M.A., has taught art classes since 1971.

Section 300: Wednesdays, September 13-November 1, 6:30-8:30 p.m. Fine Arts C140. 8 sessions. \$140.

**Commercial and Digital Photo Workshop  
NCFA 061**

This course will begin with an overall description of what is considered "commercial" photography, and will move on to cover how to find and service clients, studio setup, lighting and photographic equipment. We will employ all formats of traditional and digital photographic equipment. Throughout this course students will view slides and digital images and discuss art direction, digital manipulation, pre-press production, and the process of moving images from concept to final result. Students are expected to have an intermediate knowledge of photography and will be able to use the studio and its resources at designated times for their projects.

Tim Benko and Frank Falcone combine over twenty-five years experience as partners at Benko PhotoGraphics, shooting all formats for a large variety of commercial clients.

Section 300: Wednesdays, September 6-October 25, 6:30-8:30 p.m. Benko PhotoGraphics, 5763 Arapahoe Avenue, Suite 0, Boulder. 8 sessions. \$140.

**Brad Seago says he signed up for Mary Wright's course based on "just a desire to learn more about investing. You don't expect to walk out an expert, but this class gives you the vernacular and points you in the right direction. It's also offered at a good time, and I have faith in CU" in terms of quality expectations.**

**FOREIGN LANGUAGES****Chinese: Beginning Conversational and Written Skills  
NCFL 108**

Emphasis is on practical and colloquial Chinese for business and travel. Students learn proper pronunciation and useful conversational phrases for a number of situations. Chinese characters will be introduced to reinforce language learning skills. Chinese culture will also be explored. Required text available at the CU Bookstore.

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

Section 300: Wednesdays, September 6-October 25, 6:30-8:30 p.m. Humanities 180. 8 sessions. \$120.

**Chinese: Intermediate Conversational and Written Skills  
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. Required text available at the CU Bookstore.

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

Section 300: Thursdays, September 14-November 2, 6:30-8:30 p.m. Hellems 255. 8 sessions. \$120.

**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 Francais I*, available at the CU Bookstore.

Nadia Turk, Ph.D., has taught at CU-Boulder since 1982.

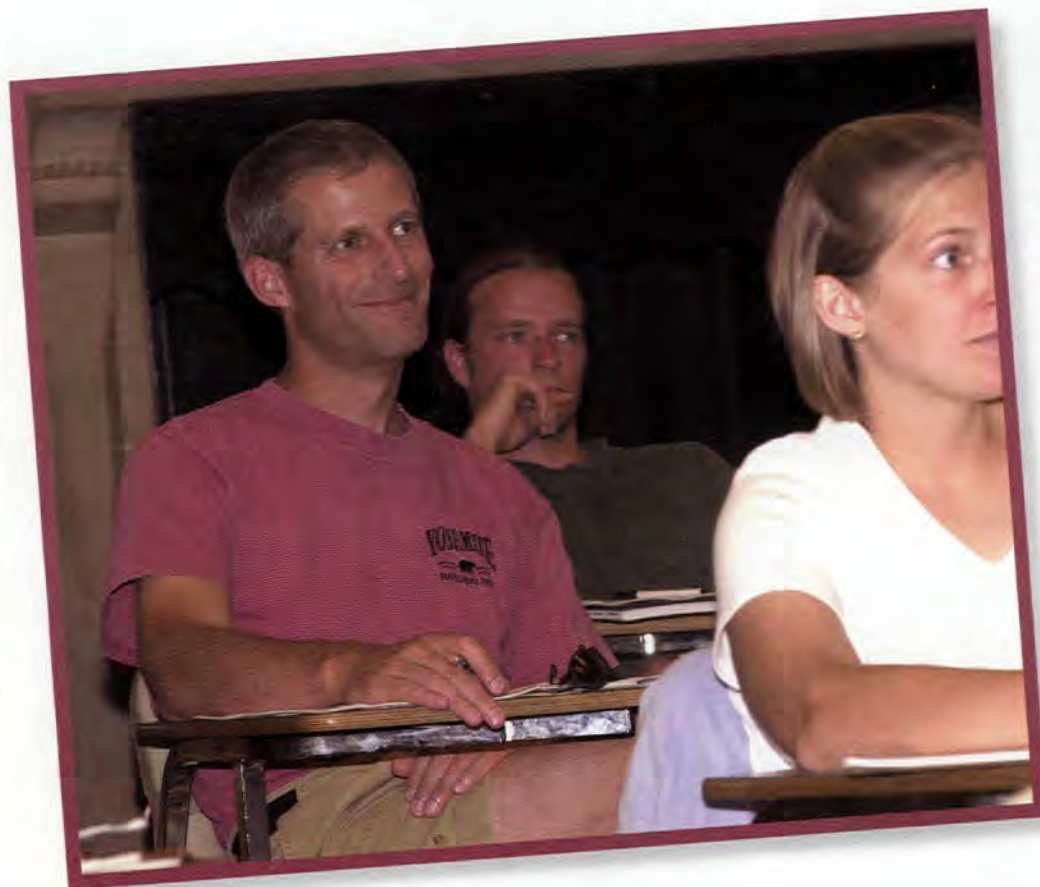
Section 300: Tuesdays, September 5-October 24, 6:30-8:30 p.m. Hellems 191. 8 sessions. \$120.

**French: Advanced Beginning Conversational Skills  
NCFL 200**

Students should be able to use the present tense before taking this class. Increased vocabulary and speaking skills are stressed. Required text, *Parlons Francais, Part II*, available at the CU Bookstore.

Nadia Turk, Ph.D., has taught at CU-Boulder since 1982.

Section 300: Wednesdays, September 6-October 25, 6:30-8:30 p.m. Hellems 193. 8 sessions. \$120.



**German: Beginning Conversational Skills  
NCFL 101**

Designed for students with little or no knowledge of German, this course covers grammar but emphasizes practical conversation for travelers. In addition students will learn cultural aspects to gain insight into German life today. Required text, *Kontakte, 3rd edition*, available at the CU Bookstore.

Carola Gorschboth is a native speaker of German with a Masters in German and English Linguistics and Literature. Her special interests are Teaching Methodology and Modern American Literature.

Section 300: Tuesdays, September 5-October 24, 6:30-8:30 p.m. Clare 209. 8 sessions. \$120.

**German: Conversational Skills for  
Advanced Beginners  
NCFL 201**

Review basic grammar concepts introduced in Beginning German as well as expand on vocabulary and expressions essential for conversational fluency in German. The course will continue to integrate aspects of modern German life and culture. Required text, *Kontakte, 3rd edition*, available at the CU Bookstore.

Carola Gorschboth is a native speaker of German with a Masters in German and English Linguistics and Literature. Her special interests are Teaching Methodology and Modern American Literature.

Section 300: Thursdays, September 7-October 26, 6:30-8:30 p.m. Hale 240. 8 sessions. \$120.

**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.

James Walker, M.A., teaches Italian at CU-Boulder.

Section 301: Tuesdays, September 5-October 24, 6:30-8:30 p.m. Ketchum 119. 8 sessions. \$120.

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

Section 302: Wednesdays, September 13-November 1, 6:30-8:30 p.m. Ketchum 119. 8 sessions. \$120.

**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 in Italian. The course will continue to integrate aspects of modern Italian life and culture. Required text, *Italianissimo I*, available at the CU Bookstore.

Tina Pugliese has an M.A. in Foreign Languages and Cinema Study from the University of Rome, Italy.

Section 300: Tuesdays, September 5-October 24, 6:30-8:30 p.m. Hellems 255. 8 sessions. \$120.

**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 is introduced. Required text, *Communicating in Japanese, Vol. 1*, may be purchased from the instructor in class.

D. H. Gordon, M.A., has taught Japanese language classes since 1981.

Section 300: Fridays, September 1-October 20, 6:30-8:30 p.m. Humanities 186. 8 sessions. \$120.

**Japanese: Intermediate Conversational  
and Written Skills  
NCFL 204**

This second-level course continues the development of oral and written skills. Prerequisite is a strong reading knowledge of both Katakana and Hiragana. Required text, *Communicating in Japanese, Vol. II*, may be purchased from the instructor in class.

D. H. Gordon, M.A., has taught Japanese language classes since 1981.

Section 300: Thursdays, September 7-October 26, 6:30-8:30 p.m. McKenna 204. 8 sessions. \$120.

**Spanish: Beginning Conversational Skills  
NCFL 103**

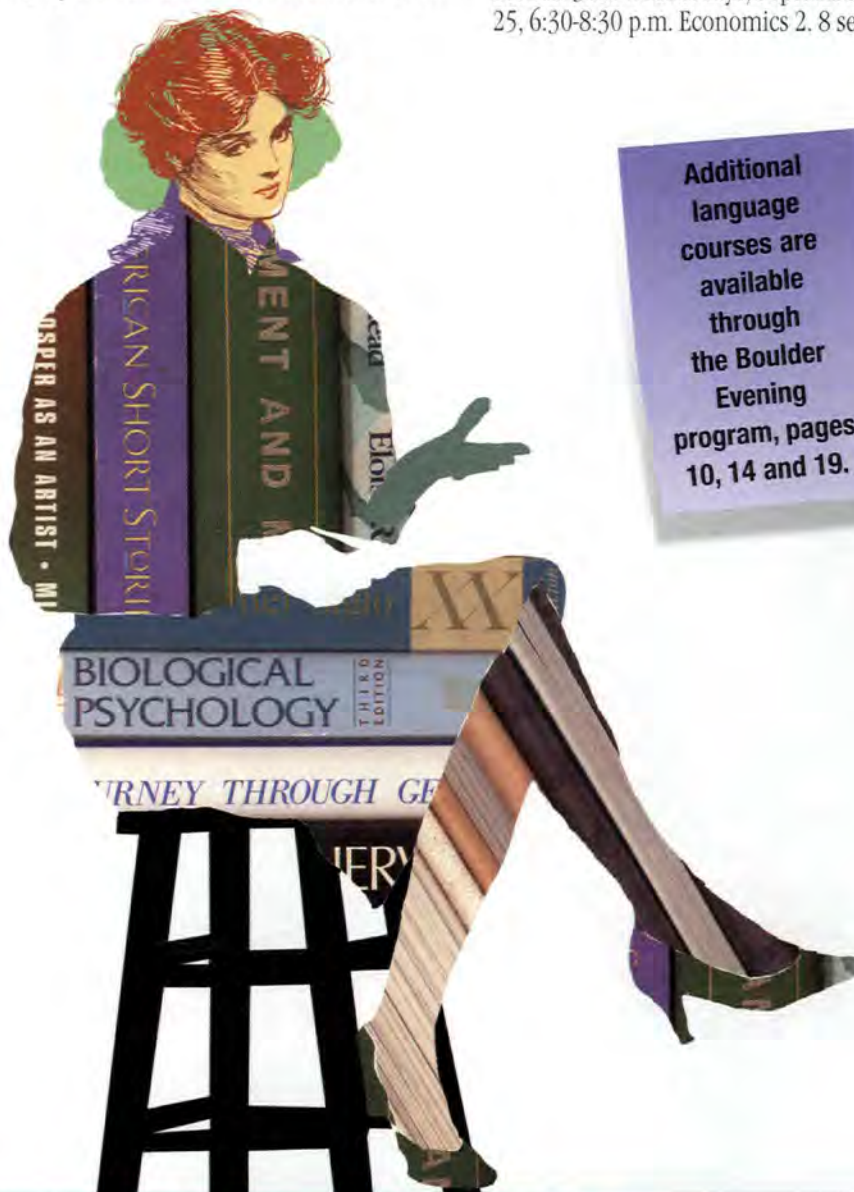
Basic but lively conversational Spanish for travelers. We stress practical vocabulary. Required text, *Getting Along in Spanish*, available at the CU Bookstore.

Elizabeth Medina, Ph.D., has taught at CU-Boulder since 1977.

Section 301: Tuesdays, September 5-October 24, 7-9 p.m. Economics 2. 8 sessions. \$120.

Itza Zavala, M.A., is a native speaker from Mexico City and is working on her Ph.D. in Spanish at CU-Boulder. She has ten years of teaching experience in Mexico and the U.S.

Section 302: Wednesdays, September 6-October 25, 6:30-8:30 p.m. Economics 2. 8 sessions. \$120.



Additional language courses are available through the Boulder Evening program, pages 10, 14 and 19.

## FOREIGN LANGUAGES

**-cont.****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.

Itza Zavala, M.A., is a native speaker from Mexico City and is working on her Ph.D. in Spanish at CU-Boulder. She has ten years of teaching experience in Mexico and the U.S.

Section 300: Tuesdays, September 5-October 24, 6:30-8:30 p.m. Hellems 181. 8 sessions. \$120.

**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., has taught at CU-Boulder since 1977.

Section 300: Thursdays, September 7-October 26, 7-9 p.m. Muenzinger E417. 8 sessions. \$120.



## HISTORY

**The Incas and Their Empire**  
**NCH 011**

Your mission, should you choose to accept it, is to conquer an empire of some 80 different nations with a land area equaling that of the Roman Empire, and then govern it through a bureaucracy. You must create great buildings, road networks, irrigation systems, and other engineering marvels. You must generate immense wealth in gold and silver, fine textiles and ceramics. But you may not use any writing, any wheels, or any money. The Incas of South America did just that. Join South American explorer-guide Kevin Haight in discovering how they managed to pull it off.

Kevin Haight, J.D., travels frequently to South America and has extensively studied the Incan culture and civilization.

Section 300: Wednesdays, October 11-November 8, 6:30-8:30 p.m. Economics 205. 5 sessions. \$70.

**History of Boulder**  
**NCH 013**

This information packed course will trace over 12,000 years of human activity in the Boulder area. Using an extensive graphics and slide collection, the first session will set the natural scene, discuss the Native American occupants, and follow the explorers, fur traders, and gold seekers into the area. The second session will focus on development of the area from the establishment of the Boulder City Town Company in 1859 through the Depression era of the 1930s. The last session will concentrate on the dynamic changes from World War II to the present day.

Thomas Meier, B.S., is the former Executive Director of the Boulder Historical Society and has published extensively on Boulder history topics.

Section 300: Tuesdays, October 3-17, 6:30-9 p.m. Hale 240. 3 sessions. \$50.

## INVESTMENTS AND PERSONAL FINANCE

**Basic Investing**  
**NCI 008**

Complete, understandable explanations for beginners covering terminology, products, and basic strategies. Learn how to take concrete steps toward planning your financial future in today's environment. Optional text, *Getting Started in Stocks*, available at the CU Bookstore.

Mary Wright, B.A., is Senior Vice President with a large investment firm, and has more than 17 years experience in the field.

Section 300: Wednesdays, September 6-27, 6:30-8:30 p.m. Hellems 201. 4 sessions. \$60.

**Advanced Investment Strategies**  
**NCI 007**

Designed to build on foundations created in Basic Investing, this course will deepen your knowledge of investments and investment strategies. Learn the one factor that influences 90% of your portfolio's success. Understand income producing investments, yield curves, P/E ratios, betas and alphas. Evaluate the role of dividends in selecting stocks. Examine where mutual funds belong in your portfolio and how the economy impacts your investment decisions. Students should have a basic understanding of stocks, bonds, mutual funds and annuities.

John D. Bonica, B.A., is an investment advisor with a large investment firm with more than 10 years experience in asset management.

Section 300: Wednesdays, October 4-25, 6:30-8:30 p.m. Stadium 140, Gate 7. 4 sessions. \$60.

**Debt Free Prosperous Living Seminar**  
**NCI 022**

Get completely out of debt in 5-7 years, including mortgage. Sounds impossible? Well, whether you earn \$15,000 a year or \$150,000 a year, this program will teach you how to turn \$1 of debt into \$11.83 of real wealth! You will owe no money to anyone and you will have no credit debt. No second jobs or austerity budgets are necessary. Learn how to live on 100% cash, handle emergencies, purchase new home, and buy cars and appliances. Bring list of debts and calculator and leave with your own debt elimination plan that can be immediately implemented into your own lifestyle. Optional text is available in class for \$49. Jeff Meyer, B.A., was a successful investment advisor when he developed and began teaching the debt elimination program.

Section 301: Saturday, September 23, 9 a.m.-12 p.m. Hellems 201. 1 session. \$40.

Section 302: Wednesday, October 11, 6:30-9:30 p.m. Hellems 201. 1 session. \$40.



**LIFESTYLES - PERSONAL AND PROFESSIONAL****Nutrition and Performance  
NCL 047**

Learn about the nutritional needs of active people and strategies for improving athletic performance. Includes recommendations on the amount of calories, carbohydrates, fats, and protein needed for different types of activities. Other topics include hydration, vitamins and minerals, supplements, ergogenic aids, weight management, what to eat before, during, and after exercise and how to evaluate nutritional claims.

Eileen Faughey, M.A., R.D., is a nutrition consultant for families, individuals and corporations.

Section 300: Mondays, October 23-30, 6:30-8:30 p.m. Clare 207. 2 sessions. \$35.

**Do What You Love  
NCL 052**

Break out of the "earning-a-living" rut and be paid to do what you truly love. This workshop takes participants through a hands-on, eight-step career decision making process, utilizing time tested exercises and vocational testing. Discover what you are truly capable of; generate a realistic list of career options, including self-employment; identify your greatest talents, interests and hidden motivators; find the right career match; uncover hidden opportunities; and find your niche in today's marketplace. Materials fee of \$30 to be paid to instructor for workbook, handouts and testing materials. Outside assignments will be required.

Dick Roberts, Ph.D., is a certified career counselor and national seminar leader and has led this highly acclaimed workshop for over 24 years.

Section 300: Thursdays, September 7-28, 6:30-8:30 p.m. Clare 207. 4 sessions. \$85.

**TEST PREPARATION****Preparing for the Graduate Record Exam (GRE)  
NCT 301**

Analyze and review basic test skills, reviewing relevant verbal, math and analytical problems. Students need *GRE Prep Book 9* for the first class, available at the CU Bookstore. Please note that students register separately for the exam. Exam registration deadlines may occur prior to the beginning of the class. Call 510-873-8100 for GRE exam registration information. Strategies for computer test included.

Test review instructors from PREP Associates, Inc. in Wheatridge, Colorado.

Section 300: Monday and Tuesday, October 16 and 17, 6-10 p.m. and Wednesday and Thursday, October 18 and 19, 6-9 p.m. Muenzinger E432. 4 sessions. \$165.

**Preparing for the Law School Admission Test (LSAT)  
NCT 490**

This class addresses strategies for each section of the LSAT: writing sample, reading comprehension, logical reasoning, and analytical reasoning. Special focus is placed on demystifying the "logic games." Other sections deal with general test-taking strategies and how to conquer test anxiety. Students need texts at the first class, available at the CU Bookstore. Call 303-492-5148 for a specific list of textbooks. Please note that students register separately for the exam. Exam registration deadlines may occur prior to the beginning of the class. Call 215-968-1001 for exam registration information.

Michelle Philip, J.D., is an attorney who has taught LSAT prep courses for over five years.

Section 300: Saturdays and Sundays, September 2-16, 9 a.m.-2:30 p.m. Muenzinger E432. 5 sessions. \$205.

**THEATRE****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 300: Mondays, September 11-October 30, 6:30-8:30 p.m. Muenzinger E417. 8 sessions. \$105.

**WRITING AND LITERATURE****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, how to write an organized yet creative article, catchy openings, interview steps, revising and editing and then marketing the finished product. The instructor also works individually with students' articles.

Nancy Rasmussen has published over 40 articles in national and local publications and has taught magazine article writing for six years.

Section 300: Tuesdays, September 19-October 24, 6:30-8:30 p.m. Hellems 271. 6 sessions. \$80.

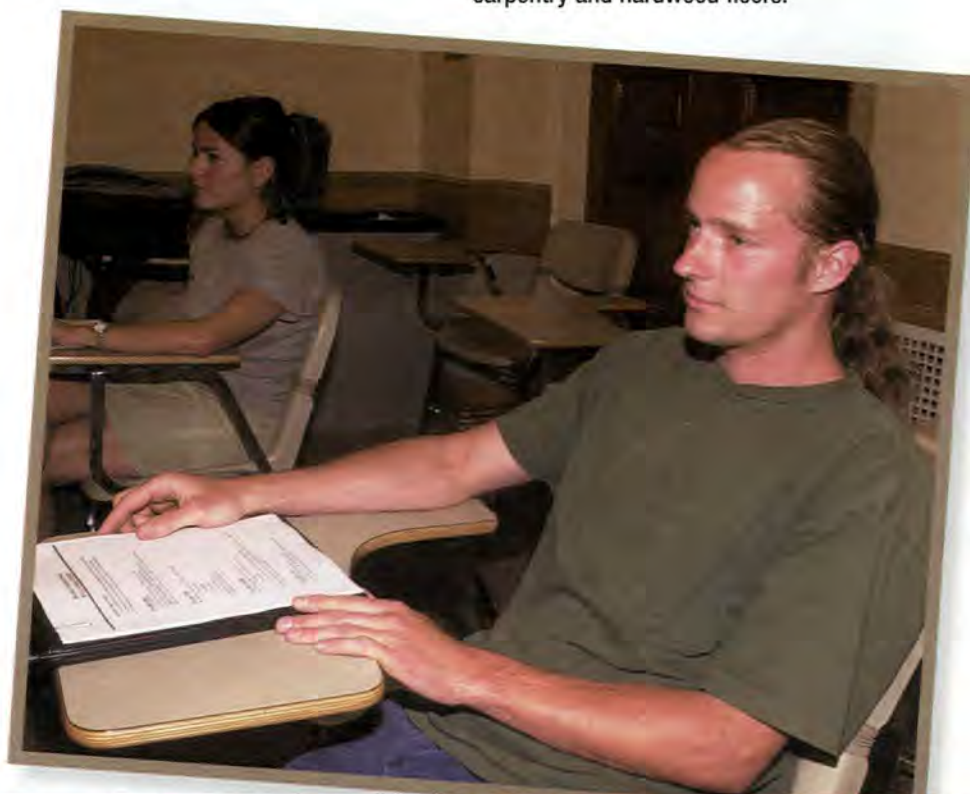
**Creative Writing  
NC W 006**

Expand your creative abilities. Explore dialog, characterization, narrative, description, viewpoint, style, basic structure and more, through series of imaginative exercises. Emphasis is on finding your individual voice. For beginners or more experienced writers.

Naomi Rachel, M.A., is a professional writer with credits in national and regional publications.

Section 300: Tuesdays, September 12-October 31, 7-9 p.m. Hellems 263. 8 sessions. \$105.

Joshua Danaher is taking Mary Wright's Basic Investing class because, "A lot of my younger friends are getting rich doing stocks and I don't want to miss the boat." He chose Continuing Education at CU "because I enjoy the Boulder students—I'm looking forward to meeting some other people." Joshua lives in South Boulder. He is self-employed with a business specializing in carpentry and hardwood floors.



**WRITING AND LITERATURE  
-cont.****Short Story Workshop  
NC W 008**

Designed for both beginning and experienced writers, this course covers all aspects of writing the short story, including characterization, plot, setting, theme, and developing one's own style and voice. We use a workshop format where students bring their stories-in-progress to class to receive helpful editorial suggestions. The course also includes discussion of the marketplace and how to prepare and submit manuscripts for publication.

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

Section 300: Tuesdays, September 12-October 17, 6:30-8:30 p.m. Hellems 245. 6 sessions. \$80.

**The Children's Book: Writing, Illustrating, and Publishing  
NC W 012**

Ever dreamed of writing or illustrating a children's book? Learn the entire process, from the cultivation of ideas to the published work. We'll cover manuscript development, illustration techniques, pictures layouts, self-publishing and submitting manuscripts to publishing companies. We'll also take an in depth look at how straightforward it is to self-publish your own work.

Kerry MacLean, B.A., has written, illustrated and self-published three children's books, including the wildly popular *Pigs Over Boulder*.

Section 300: Saturday, September 23, 9 a.m.-4 p.m. Education 231. 1 sessions. \$100.

**Poetry Workshop  
NC W 042**

Through individual and group exercises, this class will provide you with inspiration and support as you develop your poetic voice. The emphasis is on the process of writing as much as on the product - your work, generated both in and out of class, will provide the raw material for an ongoing exploration of what poetry is, and why (and how) people write it.

Susan Boucher has her MA in Creative Writing from the University of Colorado. She's an essayist and poet who has been teaching writing of various kinds for years both at the University of Colorado and elsewhere.

Section 300: Thursdays, September 14-October 19, 6:30-8:30 p.m. Hellems 245. 6 sessions. \$80.

**Topics in Literature: The British Connection  
NC W 100**

From the English language to writers like Shakespeare and Dickens, we recognize our debt to the British. In this class we will read and discuss four modern novels as we recognize the British Connection. We will meet every two weeks to allow time for reading. *Mrs. Dalloway* (Virginia Woolf) October 4; *The Hours* (Michael Cunningham) October 18; *The End of the Affair* (Graham Greene) November 1; *Behind the Scenes at the Museum* (Kate Atkinson) November 15. After reading *Mrs. Dalloway* and *The End of the Affair*, please try to see the videos to add another dimension to our discussion of these works.

Susanne Stark Gerson, M.A., M.Ed., is an instructor of literature and humanities.

Section 300: Wednesdays, October 4-November 15, 7-9 p.m. Hale 260. 4 sessions. \$80.



Instructor Mary Wright says that Basic Investing is "the type of course that everyone needs somewhere along the line as part of their education." For Mary, an executive with 17 years experience as an investment advisor, teaching the course "is a way for me to give something back to the community. And I enjoy it-it helps keep me sharp." After some 15 years, the course has demonstrated very consistent enrollment over the years.

## TARGETED PROGRAMS TO INCREASE YOUR BUSINESS KNOWLEDGE AND JOB SKILLS

**OUR BUSINESS COURSES** offer practical benefits and immediate value through certificate programs, workshops, and business classes. Continuing Education business classes provide continuing solutions to evolving needs:

- ❖ Have a great idea for a new business? Learn how to get started.
- ❖ Develop new skills to help you grow in your present job.
- ❖ Acquire new skills to prepare for a career transition.
- ❖ Understand the complexities of today's diverse work force.
- ❖ Learn strategies to become a more effective supervisor.

Tuition and classroom information is listed at the end of each course description. Full refunds are given for withdrawals prior to the first class meeting. If you need to withdraw from a course, contact the Division of Continuing Education. Please keep in mind that non-attendance or non-payment does not constitute withdrawal.

**Courses may be cancelled due to low enrollment. Please register one week prior to the first class meeting to ensure this doesn't happen to a course you intend to take. Only pre-registered students may attend class.**

### 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.

Can't make it to campus? Let us bring our classes to you. On-site professional development is available. Call 303-492-2499 to learn more.

## BUSINESS COURSES, FALL 2000

### GETTING STARTED

Basic Skills for the Supervisor

### ACCOUNTING AND FINANCE

Accounting and Budgeting for the Non-Accountant

### ENTREPRENEURISM AND SMALL BUSINESS

Entrepreneurism - Are You Ready?

Writing a Business Plan

### MARKETING

Understanding Marketing

### WRITING AND COMMUNICATION

How to Write for the Web



**FIVE WAYS TO  
BEGINNING  
SEE PAGE 68  
AUGUST 7  
REGISTER**

**GETTING STARTED**

**Basic Skills for the Supervisor**  
NC B 100

**Beginning Level**

Learn useful real-world techniques and principles that enable you to become an effective supervisor. We cover: understanding individual differences, motivational concepts, leadership theories, building productive work teams, managing change and conflict, and managerial problem solving. A recommended prerequisite to other Management Development Certificate classes. Optional final exam.

Charles Rice, M.B.A., is an instructor at the CU-Denver College of Business Administration and specializes in executive training and development.

Section 300: Saturdays, October 7 and 21, 9 a.m.-4 p.m. Economics 13. 2 sessions. \$150.

**ACCOUNTING AND FINANCE**

**Accounting and Budgeting for the Non-Accountant**  
NC B 110

**Beginning Level**

Understand where the numbers come from, and what they mean. Learn how transactions are reported, summarized and compiled into financial statements. Also, learn accounting principles focusing on the decision-making process and skills for insightful analysis of financial information in making important decisions. Finally, discover the seven secret ingredients of a bearable budget, the importance of vision and perspective, best-case and worst-case planning and how to realistically project costs and revenue. Students need a hand-held calculator at the first class meeting.

Fred Moore, M.B.E., is a nationwide trainer in accounting and has been an accountant in Boulder for 14 years.

Section 300: Saturdays, October 7 and 21, 9 a.m.-4:30 p.m. Economics 205. 2 sessions. \$150.

**ENTREPRENEURISM AND SMALL BUSINESS**

**Entrepreneurism - Are You Ready?**  
NC B 400

**All Levels**

What does it take to be an entrepreneur? Businesses fail for many reasons: undercapitalization, lack of preparation, failure to test the market, lack of financial control and doing too much too soon. This class gives you a smart start. We cover business plans, budgeting, cash flow and other essential aspects, including personal financial planning.

Aivars Ziedins, M.S., has been an entrepreneur for over 26 years, owning or running six different businesses.

Section 300: Wednesdays, October 4-18, 6:30-8:30 p.m. Hale 236. 3 sessions. \$100.

**Writing Business Plans**  
NC B 007

**Intermediate Level**

Demystify the exciting and "risky" act of starting a new venture. Specifically, students will have an opportunity to review samples of successful business plans and learn how to construct their own. Students will also explore their business ideas with the class. Finally, there will be some discussion of the entrepreneurial process of which the business plan is the key component.

Boyd Cohen is a former Andersen Consultant and co-founder of Boulder CarShare, who is currently pursuing his Ph.D. in strategy and entrepreneurship at CU-Boulder with an emphasis on Internet-based start-up companies.

Section 300: Tuesdays, September 19-October 10, 6:30-8:30 p.m. Clare 207. 4 sessions. \$100.



Kim Sanchez—in Mary Wright's Basic Investing class. The course helps students get a good start, or just get more comfortable with the investing process.



**MARKETING**

**Understanding Marketing**  
NC B 210

**Intermediate Level**

You or your company have products, services, or ideas for new offerings. How should you market them to potential customers? Learn why the most important part of marketing is knowing WHAT to make or offer before beginning advertising and selling. Learn how to understand your market, evaluate competitors, formulate your ideas and budget, and implement your plan. This course presents a case study at each session for an interactive, skill-learning experience.

Robert Beck, M.B.A., has marketed many brands and services, from household names to start-ups. Section 300: Tuesdays, September 5-October 10, 6:30-8:30 p.m. Muenzinger D439. 6 sessions. \$165.

**WRITING AND COMMUNICATION**

**How to Write for the Web**  
NC B 180

**Beginning Level**

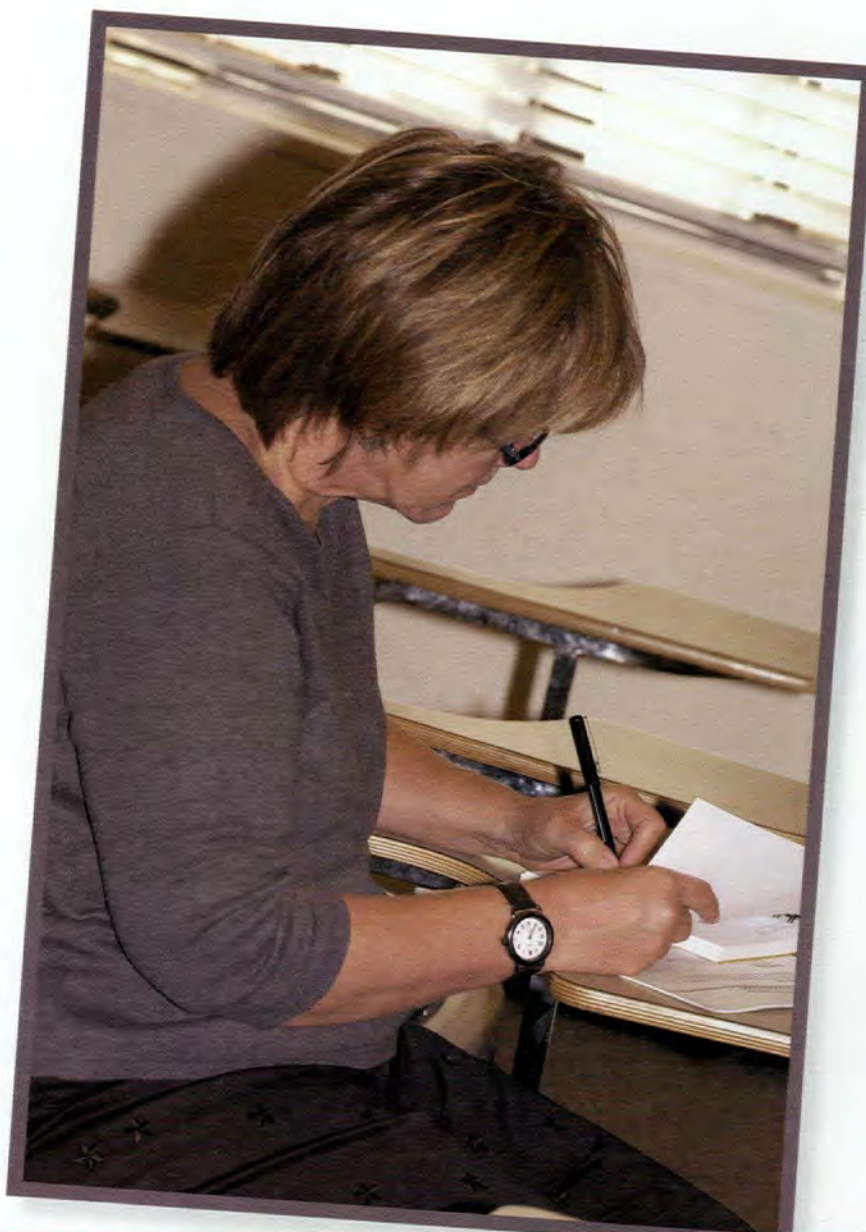
Go "live" to the Web to compare hot content sites and practice Web writing! In a fun, interactive class, we will focus on writing the perfect "chunk," the basic content unit, and designing the best nonlinear writing structure, the "backbone", of a great Web document. We will also explore which Web-writing tools and books you might want and how to evaluate your project. Students may choose to work on a project of their choice and have the option of presenting a piece for discussion during the final session. Optional textbooks, *Writing for the Web* and *Designing Web Usability: The Practice of Simplicity*, available at the CU Bookstore. **Please note that this is not a course in HTML or Web page design.**

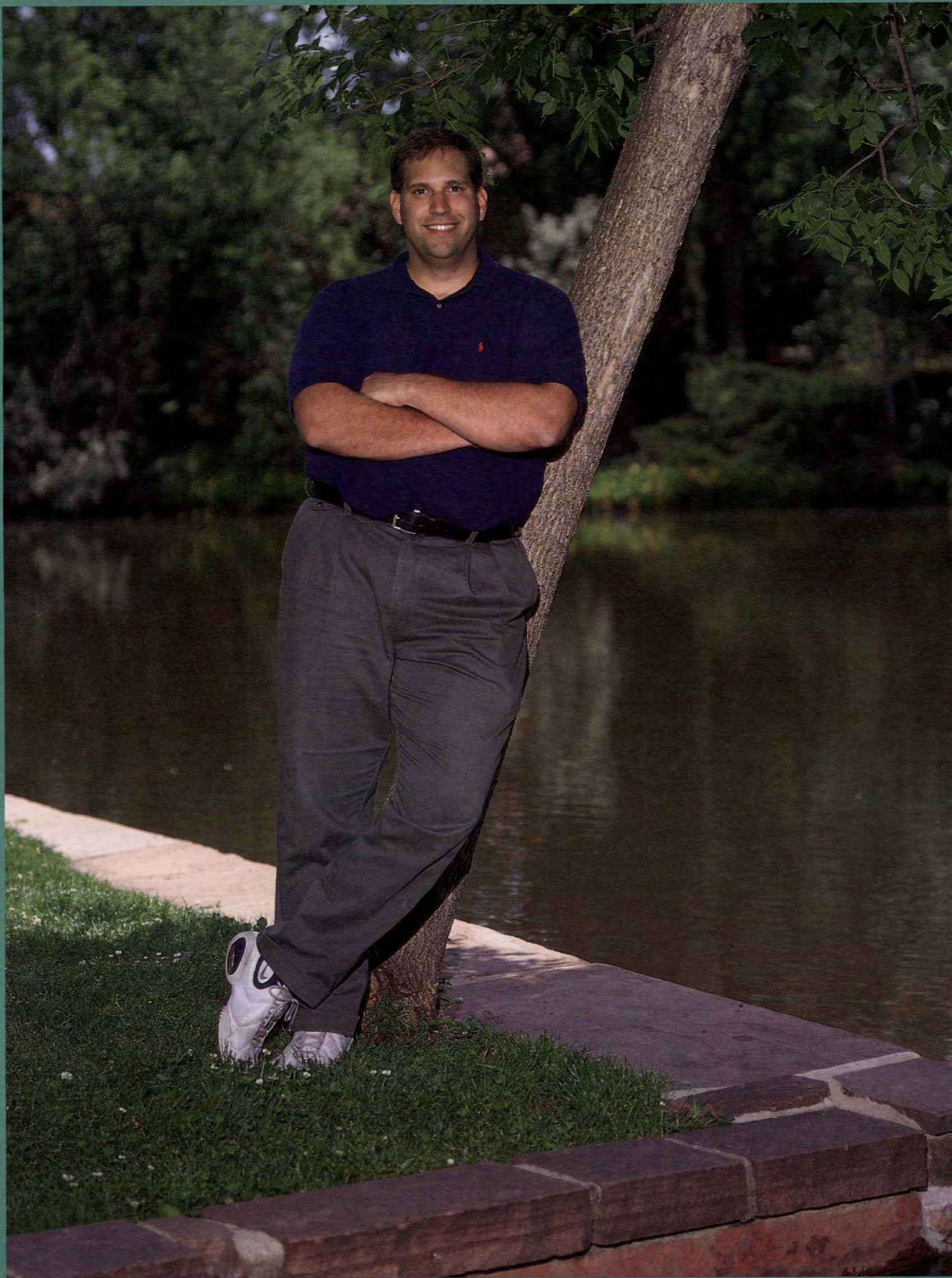
Mary King, Ph.D., is president of a business whose focus is to clearly communicate medical and scientific information in a variety of electronic and print formats.

Section 300: Wednesdays, September 13-27, 6:30-8:30 p.m. Muenzinger E064. 3 sessions. \$100.

Web site design courses are available through the Computer Applications program, pages 48-51.

Sue Kemner-Richardson is taking Mary Wright's Basic Investing class because, "I'm in charge of family finances and, as my husband and I approach retirement, we need to be better informed about how to invest our money wisely. This class was recommended to me and it was at a convenient time." Bottom line: "It's just what I expected and just what I need."






## DON'T FALL BEHIND. COMPUTER SKILLS ARE POWERFUL TOOLS FOR WORK AND PLAY.

**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 Computer Applications, 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.

**COURSE LOCATIONS:** The majority of courses offered through the Computer Applications Program are held in the University Computing Center (UCC) on 3645 Marine (at the corner of Arapahoe and Marine), the University Management Systems (UMS) building on 4780 Pearl East Circle (east of Foothills Parkway on Pearl), the Division of Continuing Education (CEDU) on 1505 University Avenue and the Humanities Building on the main campus. Please check the course descriptions for the location of your class. Refer to the map on page 67 for directions.

**PARKING:** If you are attending a day class at the UCC and CEDU locations, you will be mailed a one-day parking permit. Permits are not needed for Saturday and evening parking at the UCC and CEDU locations. Parking at the UMS building is free at all times. For all other parking locations and information, please refer to the map on page 67.

**SPECIAL 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.

Nate Ahrens knows computers. By day he is the Information Systems Manager for the Division of Continuing Education at CU-Boulder. He's the guy who sets up all the labs for individual computer classes, and he's the in-house computer guru who makes sure systems and equipment are current and connected. And, of course, he's the guy people call when they're ready to heave the old PC right through the window. In the evenings, he teaches computer applications classes, like Intro to Networks, which is a comprehensive introduction to networking. He says that this class in particular helps open up options for a lot of people and adds that he really enjoys the satisfaction of demystifying concepts— "It's great to see the light go on." Nate is from Norwalk, Iowa, and has lived in this area for years. He earned a BA in Poli. Sci. at Iowa State and an Associates Degree from Denver Technical College. He has worked with juvenile delinquents and with developmentally disabled learners, so he brings a lot of special skill into the classroom. He also knows how to unplug. Weekends find him on his bike or playing with his 3-year-old nephew. And this time of year, Sundays belong to the Denver Broncos.

**PREREQUISITES:** Many courses require prerequisites. **The prerequisite(s) must be completed before you can attend the course.** We want to assure you receive the most out of your class and that you can actively participate. If you have not taken and satisfactorily completed a prerequisite but have the equivalent experience or background, you may request to be exempt from the prerequisite. Please e-mail us at [cecas@colorado.edu](mailto:cecas@colorado.edu) or call us at 303-492-5148 to make this request.

**ESSENTIAL INFORMATION:** Enrollment is limited by the number of computers and seats available in each classroom, so early registration is advised. **Only pre-registered students may attend class.** University logins may be requested at the first class session.

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

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 will 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:** Required or recommended textbooks will be indicated in the course descriptions. All textbooks are available at the University Bookstore in the University Memorial Center (UMC), room number 10.

**TUITION AND REFUNDS:** Cost varies from class to class. Tuition is listed at the end of each course description. **Full refunds are given on request before a course starts, but none thereafter.**

**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.

**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](http://www.colorado.edu/conted/computer.htm).

## CERTIFICATE PROGRAMS

### CERTIFICATE IN COMPUTER APPLICATIONS

Gain a comprehensive understanding of an ever-changing computer industry. Earn your Certificate in Computer Applications by completing the following courses:

#### A. FIVE REQUIRED CORE COURSES:

1. CACS 100 Computer Literacy
2. CACS 201 Concepts of Computer Information Technology
3. CACS 202 Computer Applications Overview
4. CACS 204 Computer Systems Overview
5. CACS 220 Introduction to Networks

#### B. ONE COURSE IN PROGRAMMING:

Programming courses offered include C, C++ and Java.

#### C. FOUR ELECTIVE COURSES:

Any computer applications course not listed or taken as a requirement above qualifies as an elective. You may want to focus on a specific area of emphasis (i.e. computer graphics, databases, spreadsheets, etc.) to be more proficient in a type of application.

**This certificate is not designed to be completed in one semester but must be completed within three years.**

### CERTIFICATE IN NETWORK ADMINISTRATION

This Certificate is designed for you to gain a comprehensive understanding of the theoretical and practical skills necessary to maintain networked environments. You may earn this Certificate by completing the following course requirements:

#### A. CHOOSE ONE OF THREE TRACKS:

##### 1. Windows/Intel Track

- CACS 220 Introduction to Networks
- CACS 321 Network Administration

##### 2. Macintosh Track

- CAMC 100 Introduction to the Macintosh

##### 3. UNIX Track

- CACS 211 Introduction to UNIX
- CACS 311 Intermediate UNIX

#### B. OPERATING SYSTEMS (ALL 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.

#### F. DATABASE COURSE:

Choose one database course.

**This certificate is not designed to be completed in one semester but must be completed within three years.**

### CERTIFICATE IN WEB SITE DESIGN

You can design professional Web sites using the latest computer technology and prepare yourself for one of the hottest job markets. Obtain your Certificate in Web Site Design by completing the following courses:

#### A. SIX REQUIRED CORE COURSES:

1. CACS 331 Internet Applications
2. CACS 334 Design Techniques for Web Sites
3. CACS 332 Introduction to HTML
4. CACS 432 Intermediate HTML
5. CACS 532 Advanced HTML
6. CACS 336 Introduction to JavaScript

*Note: As of fall 2000, CACS 436 JavaScript Language is no longer required to complete the Web Site Design Certificate.*

#### B. MULTIMEDIA COURSE:

Choose one Multimedia course.

#### C. GRAPHICS ELECTIVES (CHOOSE ONE):

- CAPC 282 Photoshop for Windows, Level I
- CAPC 382 Photoshop for Windows, Level II
- CAPC 482 Photoshop for Windows, Level III
- CAPC 283 Illustrator for Windows, Level I
- CAPC 383 Illustrator for Windows, Level II
- CAMC 282 Photoshop for Macintosh, Level I
- CAMC 382 Photoshop for Macintosh, Level II
- CAMC 283 Illustrator for Macintosh, Level I
- CAMC 383 Illustrator for Macintosh, Level II

#### D. ADDITIONAL ELECTIVE COURSE:

Choose one Web-based course.

(Note: If you began the Web Site Design Certificate Program prior to fall 2000, you may take the CACS 436 JavaScript Language course to replace this elective requirement or take another Web-based course to fulfill this requirement.)

#### E. CACS 600 WEB SITE DESIGN PROJECT

Required capstone course for the Certificate. You cannot enroll into this course until all the above required courses have been completed.

**This certificate is not designed to be completed in one semester but must be completed within three years.**

**CERTIFICATE IN PROGRAMMING**

If you wish to pursue a career involving programming or need to update your skills to stay current in this fast-paced industry, the Certificate in Programming is for you. Earn your Certificate by completing the following courses:

**A. REQUIRED INTRODUCTORY COURSES (CHOOSE ONE OPTION):****Option 1: For absolute beginners**

- CACS 240 Introduction to Programming
- CACS 241 Introduction to Hands-on C++
- CACS 341 Intermediate Hands-on C++

**Option 2: For beginners who have had some programming experience**

- CACS 242 Introduction to Application Programming
- CACS 342 Intermediate Application Programming

**B. CHOOSE ONE OF THREE TRACKS:****C Track (all courses required)**

1. CACS 243 Introduction to C for Programmers
2. CACS 343 Intermediate/Advanced C Programming
3. One hands-on lab in any programming course
4. One course from the C++ or Java track
5. One Special Topics Course

**C++ Track (all courses required)**

1. CACS 244 Intro to Object-Oriented Programming in C++
2. CACS 344 Intermediate/Advanced C++
3. CACS 444 C++ Gotchas
4. CACS 341 Intermediate Hands-on C++ or CACS 342 Intermediate Application Programming
5. Two Design Topics Courses

**Java Track (all courses required)**

1. CACS 247 Introduction to Object-Oriented Programming Using Java
2. CACS 347 Java for Object-Oriented Experienced Programmers
3. CACS 447 Advanced Java Language
4. CACS 448 Advanced Java Library
5. One Java Topics Course
6. One Design Topics Course

**C. ONE ELECTIVE TOPICS COURSE NOT ALREADY TAKEN FOR THE TRACK REQUIREMENTS:****TOPICS COURSES****Java Topics**

- CACS 348 GUI Programming in Java
- CACS 349 JavaBeans
- CACS 449 2D and 3D Graphics with Java
- CACS 248 Java Servlets
- CACS 360 Developing Web Applications in Java

**Design Topics**

- CACS 345 Object-Oriented Design Patterns
- CACS 445 Object-Oriented Analysis and Design

**Visual Basics Topics**

- CACS 245 Introduction to Hands-on Visual Basic Programming
- CACS 350 Intermediate Hands-on Visual Basic

**Database Design Topics**

- CAPC 357 Database Design Concepts
- CAPC 358 Relational Database Concepts and SQL Programming

**This certificate is not designed to be completed in one semester but must be completed within three years.**

Students interested in using any of the above listed programming courses to fulfill prerequisites for undergraduate computer science courses at CU should contact Continuing Education at 303-492-5148.

**GENERAL CERTIFICATE INFORMATION:**

If you have a substantial background in computers or programming, you may request a waiver for a course by submitting a letter to the Computer Applications Program Manager at the Division of Continuing Education. Please document the equivalent education and/or experience for the course you wish to waive. You can only waive up to two courses for each certificate. You may e-mail your request to [cecas@colorado.edu](mailto:cecas@colorado.edu).

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 in any course and wish to obtain a certificate, you must take the course over again and obtain a satisfactory grade.

Once you have completed the requirements for your certificate, you must send a written request to receive your certificate. Send the request via e-mail to [cecas@colorado.edu](mailto:cecas@colorado.edu) or to the Program Manager of Computer Applications, University of Colorado at Boulder, Division of Continuing Education, Campus Box 178, Boulder, CO 80309-0178.



## COMPUTER APPLICATIONS COURSES, FALL 2000

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Susan Walanski teaches Intermediate HTML and Introduction to JavaScript. She says the two classes are “very different experiences—both enjoyable.” An experienced instructor new to the CU program, she observes that “Continuing Education courses really stress the hands-on approach and I think that’s the best way to learn any programming language.” She says teaching offers a nice change of pace from her day job in web design and development at Tri Digital, Inc., in Boulder.



## THE COMPUTER SYSTEM

### UNDERSTANDING COMPUTERS

#### Computer Literacy CACS 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 five hands-on labs: three on the Macintosh system and two on the personal computer (PC), or two on the Macintosh system and three on the PC. After the course, spreadsheet, word processing, database and communication applications will be familiar concepts to you.

Beth Sigren, B.S.

Section 301: Thursdays, September 7, 6-8 p.m. plus lab sections. Please indicate lab preference (30A or 30B) at registration: Lab Section 30A: Thursdays, September 14-October 12, 6-8 p.m. Lab Section 30B: Thursdays, September 14-October 12, 8-10 p.m. This section has three Macintosh labs and two PC labs. Humanities 125.

Section 302: Tuesdays, September 26, 6-8 p.m. plus lab sections. Please indicate lab preference (30C or 30D) at registration: Lab Section 30C: Tuesdays, October 3-31, 6-8 p.m. Lab Section 30D: Tuesdays, October 3-31, 8-10 p.m. This section has two Macintosh labs and three PC labs. Humanities 1B80.

Instructor: TBA

Section 303: Wednesday, October 4, 6-8 p.m. plus lab sections. Please indicate lab preference (30E or 30F) at registration: Lab Section 30E: Wednesdays, October 11-November 8, 6-8 p.m. Lab Section 30F: Wednesdays, October 11-November 8, 8-10 p.m. This section has two Macintosh labs and three PC labs. Humanities 125.

All Sections: 6 sessions. \$160.

#### Concepts of Computer Information Technology

##### CACS 201

Examine the evolution of computers and their current role at the heart of today's technology. Look at the Information Age including the Internet, Intranet and Extranet; the technologies that are changing the way we work and live; critical technology issues and decisions; and how to identify the best career opportunities in this exciting field. **Prerequisite:** CACS 100 Computer Literacy or equivalent.

Cherie Quaintance, B.A.

Section 300: Thursdays, September 7-October 12, 6-9 p.m. 6 sessions. Hellems 237. \$250.

 Lecture only; no labs.

#### Computer Applications Overview CACS 202

Learn the various categories of software applications. Explore the features, functions and benefits of major commercial products through conceptual lectures, design discussions and demonstrations of word processing, spreadsheets, databases, graphics, Web browsers and email applications. Find out how these tools can help increase your productivity. **Prerequisite:** CACS 100 Computer Literacy or equivalent.

Chris Mattson, B.S.

Section 300: Thursdays, September 14-October 5, 6-9 p.m. 4 sessions. University Computing Center 127. \$205.

#### Computer Systems Overview CACS 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 CAMC 100 Introduction to the Macintosh or equivalent.

Chris Mattson, B.S.

Section 300: Tuesdays, September 12-October 3, 6-9 p.m. 4 sessions. University Computing Center 127. \$205.

## NETWORKS

#### Introduction to Networks CACS 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 CAMC 100 Introduction to the Macintosh or equivalent.

Nate Ahrens, B.A.


Section 301: Wednesdays, September 13-October 11, 6-9 p.m. 5 sessions.

Section 302: Mondays, October 2-30, 6-9 p.m. 5 sessions.

All Sections: University Computing Center 127. \$240.



**FIVE WAYS TO  
BEGINNING  
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**NETWORKS-cont.****Computer Architecture**   
**CACS 305**

This course introduces the fundamentals of computer architecture, starting with the logical hierarchy. It also addresses how individual components such as CPUs, memory, hard drives, video cards, network adapters and other peripherals interact with each other on various platforms. Hardware standards are examined for each of the platforms including PCI, Nubus, SCSI, IDE, and enhanced IDE. **Prerequisite:** CACS 204 Computer Systems Overview or equivalent.

Dave Bodnar, M.S.

Section 301: Wednesdays, September 13-October 4, 6-9 p.m. 4 sessions.

Section 302: Thursdays, November 9-December 7 (skip November 23), 6-9 p.m. 4 sessions.

All Sections: University Computing Center 123. \$210.

**Network Administration**  
**CACS 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.

Bill Wyman, M.A.

Section 300: Wednesdays, October 11 and 18, and Thursdays, October 26 and November 2, 6-9 p.m. 4 sessions. University Computing Center 123. \$210.

**Network Operating Systems**  
**CACS 323**

This course deals with the major server operating systems. The lecture portion of the course compares and contrasts the components, functionality, and architecture of the Windows, UNIX, and Macintosh network operating systems. In lab, students learn about installing and configuring the operating systems and how to use them in fully functional network servers. **Prerequisite:** CACS 303 Computer Operating Systems or equivalent. **Required text:** *Using Networks*, Derfler.

Bill Wyman, M.A.

Section 300: Mondays, November 6-December 4 (skip November 20), 6-9 p.m. 4 sessions. University Computing Center 123. \$210.

**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 300: Thursdays, September 28-October 19, 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). \$420.

**Intermediate Windows NT 4.0 Administration**  
**CACS 404**

Expand on the topics covered in the introduction course by learning what it takes to adapt them to a larger scale multi-server environment using Domains and Trusts. Also examine the Internet Information Server, Remote Access Service, and other network components. **Prerequisite:** CACS 304 Introduction to Windows NT 4.0 Administration or equivalent. **Required text:** *Inside Windows NT Server 4*, 2nd edition, Heywood.

Bob Schmidt, M.A.

Section 300: Mondays, October 23-November 13, 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). \$420.

**NetWare Administration**  
**CACS 414**

In this course you will set up a NetWare server plus create and manage objects and implement network printing through NetWare Administrator. Novell Directory Services, security issues, and utilities will be discussed. **Prerequisite:** CACS 323 Network Operating Systems or equivalent.

Shayn Smith, Ph.D., CNE

Section 300: Wednesdays, October 11-November 1, 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). \$210.

 *Lecture only; no labs.*





### 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. 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.

Ed Zucker, M.S.

Section 300: Tuesdays, September 12-October 24, 6-9 p.m. 7 sessions. University Computing Center 123. \$390.

### Intermediate UNIX

#### CACS 311

Create your own tools or do system administration. Advanced use of commands are covered, including creating and executing shell programs, start-up files, variables, parameters, simple and multiple case branching, loops, signal handling, testing file attributes, plus some ingenious little-known features. **Prerequisite:** CACS 211 Introduction to UNIX or equivalent.

**Prerequisite:** CACS 211 Introduction to UNIX or equivalent.

Ed Zucker, M.S.

Section 300: Tuesdays, October 31-December 5 (skip November 21), 6-9 p.m. 5 sessions. University Computing Center 123. \$460.


### UNIX System Administration

#### CACS 415

This hands-on course examines in-depth the fundamental aspects of managing users, installing and troubleshooting software and hardware, and effective backup and security schemes. Advanced topics include an overview of network management as well as suggestions for effective system monitoring schemes, particular setup strategies and other "tricks of the trade." **Prerequisites:** CACS 211 Introduction to UNIX or equivalent and users level knowledge of file ownerships, directories, permissions, basic commands and editors.

Lynn Schaper, B.A.

Section 300: Tuesdays and Thursdays, November 14-30 (skip November 23), 6-9 p.m. 5 sessions. University Computing Center 127. \$460.

 **Lecture only; no labs.**

Computer applications classes help students like Shannon Schmidt grasp the "lingo" of new technology and help them understand various configurations.

### Wide Area Networking Topics

#### CACS 424

This course presents an overview of Wide Area Network technologies that are commonly used at the University of Colorado at Boulder as well as other businesses. The course will cover WAN standards, such as PPP, SLIP, frame relay and V.34 modem protocols with hands-on configuration of systems for access to CU-Boulder modem pools and Internet service providers. Windows 95 and Macintosh configurations will be discussed.

**Prerequisite:** CACS 323 Network Operating Systems or equivalent.

Trevor Metzger, B.S.

Section 300: Wednesdays, October 25-November 8, 6-9 p.m. 3 sessions. University Computing Center 123. \$200.

## OPERATING SYSTEMS

### Computer Operating Systems

#### CACS 303

This course deals with the major workstation operating systems. The lecture portion of the course compares and contrasts the components, functionality, and architecture of the Windows, UNIX, and Macintosh workstation operating systems. In lab, students learn about installing and configuring the operating systems and how to use them in fully functional workstations.

**Prerequisite:** CACS 204 Computer Systems Overview or equivalent. **Required text:**

*Crossing Platforms: A Macintosh/Windows Phrasebook*, Engst and Pogue.

Bill Wyman, M.A.

Section 300: Thursdays, October 5-26, 6-9 p.m. 4 sessions. University Computing Center 123. \$210.

### 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.

Bill Norton, B.A.

Section 300: Tuesdays, October 3-31, 6-9 p.m. 5 sessions. University Management Systems 001. \$360.



**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. Lecture includes information on both PC and Macintosh platforms. **Prerequisite:** CACS 100 Computer Literacy or equivalent.

Instructor: TBA

Section 301: Tuesday and Thursday, September 5 and 7, 6-9 p.m. 2 sessions. Humanities 1B45.

Beth Sigren, B.S.

Section 302: Wednesdays, September 20 and 27, 1-4 p.m. 2 sessions. University Computing Center 127.

Chris Mattson, B.S.

Section 303: Monday and Wednesday, October 2 and 4, 6-9 p.m. 2 sessions. Humanities 1B45.

All Sections: \$150.

**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.

Jeff Forrest, M.A.

Section 301: Mondays, September 11-25, 6-9 p.m. 3 sessions.

Section 302: Mondays, October 9-23, 6-9 p.m. 3 sessions

All Sections: Humanities 1B45. \$190.

**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.

Ginny Figlar, M.A.

Section 301: Tuesdays, September 12-26, 6-9 p.m. 3 sessions. University Management Systems 001.

Section 302: Thursdays, September 14-28, 6-9 p.m. 3 sessions. Humanities 1B45.

Section 303: Saturdays, September 16 and 23, 9 a.m.-2:30 p.m. 2 sessions. University Management Systems 001.

Chris Mattson, B.S.

Section 304: Monday and Thursday, October 2 and 5, 9 a.m.-12 p.m. 2 sessions. University Computing Center 127.

Section 305: Monday and Thursday, October 2 and 5, 1-4 p.m. 2 sessions. University Computing Center 127.

All Sections: \$190.

**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.

Karis Vail Schmidt, B.A.

Section 301: Wednesdays, September 6-27, 6-9 p.m. 4 sessions. Humanities 1B45.

Beth Sigren, B.S.

Section 302: Saturdays, September 9-30, 9 a.m.-12 p.m. 4 sessions. Humanities 1B45.

Karis Vail Schmidt, B.A.

Section 303: Tuesdays, September 12-October 3, 9 a.m.-12 p.m. 4 sessions. University Computing Center 127.

Section 304: Tuesdays and Wednesday, September 12-October 4, 6-9 p.m. 4 sessions. Humanities 1B35. This course will be taught in a Mac lab.

Beth Sigren, B.S.

Section 305: Saturdays, October 7-28, 9 a.m.-12 p.m. 4 sessions. University Computing Center 127.

Ginny Figlar, M.A.

Section 306: Thursdays, November 9-December 7 (skip November 23), 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).

All Sections: \$235.



**On-line Brown Bag  
Series on  
effectively using  
the web available  
through  
Independent  
Learning.  
See page 23.**

**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. Also learn about client pull and server push concepts. **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.

Beth Sigren, B.S.

Section 301: Saturdays, October 7-21, 1-4 p.m. 3 sessions. University Computing Center 127.

Karis Vail Schmidt, B.A.

Section 302: Tuesdays, October 10-24, 9 a.m.-12 p.m. 3 sessions. University Computing Center 127.

Section 303: Thursdays, November 2-16, 6-9 p.m. 3 sessions. Humanities 1B35. This course will be taught in a Mac lab.

Section 304: Tuesdays, November 7-28 (skip November 21), 6-9 p.m. 3 sessions. University Management Systems 001.

Section 305: Wednesdays, November 8-29 (skip November 22), 6-9 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).

Susan Walanski, B.A.

Section 306: Wednesdays, November 15-December 6 (skip November 22), 6-9 p.m. 3 sessions. Humanities 1B45.

All Sections: \$195.

**Advanced Hypertext Mark-up Language (HTML)**  
**CACS 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.

Beth Sigren, B.S.

Section 301: Saturdays, September 9-30, 1-4 p.m. 4 sessions. Humanities 1B45.

Joyce Evans, B.A.

Section 302: Tuesdays, September 12-October 10 (skip September 26), 6-9 p.m. 4 sessions. Humanities 1B45.

Section 303: Saturdays, September 16-30, 9 a.m.-1 p.m. 3 sessions. University Computing Center 127.

Beth Sigren, B.S.

Section 304: Mondays, November 6-December 4 (skip November 20), 6-9 p.m. 4 sessions. Humanities 1B45.

Section 305: Tuesdays, November 7-December 5 (skip November 21), 6-9 p.m. 4 sessions. Humanities 1B45.

Section 306: Fridays, November 10-December 8 (skip November 24), 6-9 p.m., 4 sessions. Humanities 1B35. This session will be held in the Macintosh Lab.

All Sections: \$235.

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

Learn about the new version of HTML: HTML 4.0. This fast-paced 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 300: Wednesdays, October 4 and 11, 1-4 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). \$160.



Dale Atkins works for the State of Colorado as an avalanche forecaster—an interesting job although he admits, "I play with snow but it seems like I spend more time playing with computers." So some targeted computer training is definitely a good thing. Dale says he likes Continuing Education classes because they're convenient and part of a solid program.



**THE INTERNET-cont.****Design Techniques for Web Sites  
CACs 334**

Learn basic design principles and apply them to Web page design. Targeting audience, defining your goal and flow-charting will also be discussed. Using Adobe Photoshop, discover ways to create enticing graphics for your pages that are interesting and also manageable. Other topics include today's technological realities, typography and color theory. **Prerequisite:** CACS 331 Internet Applications or equivalent.

Rebecca Woulfe, B.F.A.

Section 301: Mondays, September 18 and 25, 9 a.m.-12 p.m. University Management Systems 001.

Section 302: Mondays, September 18 and 25, 1-4 p.m. University Management Systems 001.

Section 303: Tuesdays, November 7 and 14, 9 a.m.-12 p.m. University Management Systems 001.

Section 304: Tuesdays, November 7 and 14, 1-4 p.m. University Management Systems 001.

Beth Sigren, B.S.

Section 305: Thursdays, November 30 and December 7, 6-9 p.m. Humanities 1B45.

All Sections: 2 sessions. \$160.

**Using Macromedia DreamWeaver to  
Create Web Sites  
CACs 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 frames. Creating rollovers, image swaps, image maps, 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 301: Saturdays, November 11 and 18, 9 a.m.-3:30 p.m.

Rebecca Woulfe, B.F.A.

Section 302: Mondays, November 27 and December 4, 9 a.m.-3:30 p.m.

All Sections: 2 sessions. University Computing Center 127. \$265.

**Web Site Design with FrontPage 2000  
CACs 233**

Learn to develop a Web presence with one of the most popular Web authoring and Management tools available! In this class we will cover the basics of FrontPage (FP Explorer and Editor); creating and using Hyperlinks; creating navigational tools using the Web Wizard; beginning text and graphic use; importing files; and creating lists and tables. **Prerequisites:** CAPC 203 Windows 95/CAPC 205 Windows 98 and CACS 230 Internet Fundamentals or equivalent.

Karis Vail Schmidt, B.A.

Section 301: Saturdays, September 30 and October 7, 9 a.m.-2:30 p.m.

Section 302: Mondays, October 9 and 16, 9 a.m.-2:30 p.m.

All Sections: 2 sessions. University Management Systems 001. \$260.

**Enhanced Web Page Design with Front  
Page 2000  
CACs 234**

Learn advanced elements to create and maintain a sophisticated Web site with the tools in FrontPage 2000. In this course we will cover applying graphical themes; intermediate graphic use (including creating image maps and using Image Composer and animation tools); creating special effects such as marquees and hover buttons; creating frames and forms; applying and editing shared borders; and publishing your Web. **Prerequisite:** CACS 233 Web Page Design with FrontPage 2000 or equivalent.

Section 300: Mondays, October 23 and 30, 9 a.m.-2:30 p.m. 2 sessions. University Management Systems 001. \$260.

**Motion Graphics Using Flash  
CACs 260**

Learn how to create dynamic, interactive "shock-wave" movies for multimedia and 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.

Instructor: TBA

Schedule: TBA

**Introduction to JavaScript  
CACs 336**

Learn how to apply JavaScript to enhance Web pages. Topics include an overview of JavaScript and how to include basic JavaScripts, such as rollovers, scrolling status bars, cycling banners, the current date and opening new browser windows into a Web page. Hands-on exercises will be used to make your Web pages up-to-date and impressive. **Prerequisite:** CACS 532 Advanced HTML or equivalent.

Susan Walanski, B.A.

Section 301: Tuesdays, September 19-October 3, 6-9 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).

William Busch

Section 302: Saturdays, October 14 and 21, 9 a.m.-2:30 p.m. 2 sessions. Humanities 1B45.

Susan Walanski, B.A.

Section 303: Saturdays, October 28 and November 4, 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

William Busch

Section 304: Saturdays, December 2 and 9, 9 a.m.-2:30 p.m. 2 sessions. University Computing Center 127.

All Sections: \$200.

Writing for the Web course available through Business courses, page 39.

**JavaScript Language  
CAC 436**

Topics include programming techniques such as controlling program flow, defining and manipulating functions and variables. Hands-on exercises and practical applications include verifying forms, cookies, creating new pages dynamically and mathematical operations. **Prerequisite:** CACS 336 **Introduction to JavaScript** or equivalent.

Joyce Evans, B.A.

Section 301: Saturdays, October 7-21, 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).

Section 302: Saturdays, November 4-18, 9 a.m.-4 p.m. University Management Systems 001.

All Sections: 3 sessions. \$280.

**Web Site Design Project  
CAC 600**

Required capstone course for the Certificate in Web Site Design. With minimal assistance and supervision, students will create a Web site to demonstrate their 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 images, tables, forms, frames, style sheets 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 highly recommended.

Beth Sigren, B.S.

Section 301: Thursdays, October 19-November 16, 6-9 p.m. Humanities 1B45.

Section 302: Saturdays, November 4-December 9 (skip November 25), 9 a.m.-12 p.m. Humanities 1B45.

All Sections: 5 sessions. \$275.

**Web Server Administration**

If you are interested in running a World Wide Web server, this class will provide information on hardware, software, system configuration, security, logs and measurements and virtual servers. You will also explore developing and testing Common Gateway Interface programs and updating and changing Web pages on other servers. This class is presented in a lecture format with live illustrations of administrative functions. **Prerequisite:** CACS 332 **Introduction to Hypertext Mark-up Language (HTML)** or equivalent.

Instructor: TBA

Section 300: Saturday, December 2, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$195.

**Lecture only; no labs.**

**PROGRAMMING****Introduction to Programming**

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, 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 301: Tuesdays, September 19 and 26, 9 a.m.-5 p.m., Wednesday, October 11, 9 a.m.-5 p.m., Tuesday, October 17, 9 a.m.-12 p.m. (skip week of October 1). 4 sessions.

Section 302: Thursdays and Mondays, September 21 and 25, October 12 and 16, 6-9 p.m., Saturdays, September 23 and October 14, 9 a.m.-4 p.m. (skip week of October 1). 6 sessions.

All Sections: University Computing Center 123. \$420.

**Introduction to Hands-On C++  
CAC 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.

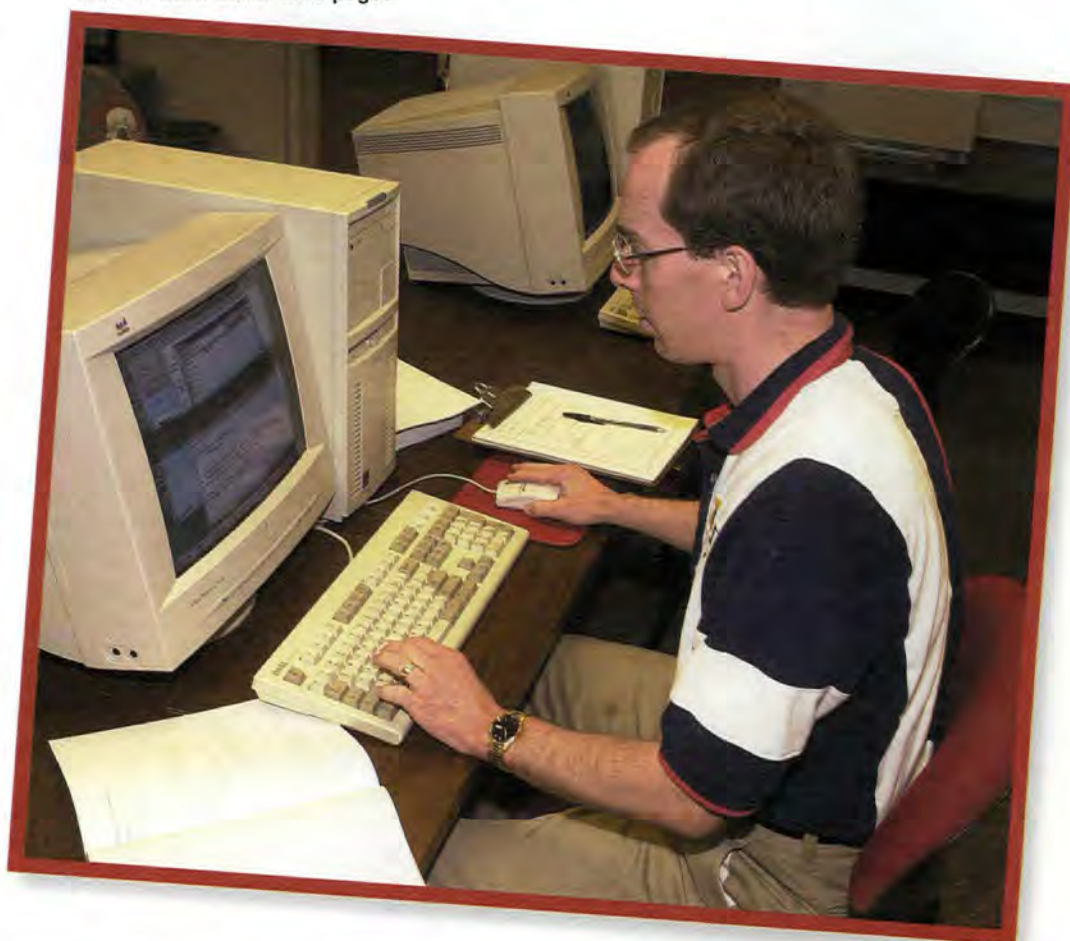
Charry Stover, M.S.

Section 301: Tuesdays and Fridays, November 7-December 1 (skip weeks of November 12 and 19), 9 a.m.-4 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).

Section 302: Wednesday and Saturday, November 8 and December 2, 9 a.m.-4 p.m., Thursdays, Wednesday and Monday, November 9, 29 and 30 and December 4, 6-9 p.m. (skip weeks of November 12 and 19). 6 sessions. University Management Systems 001.

All Sections: \$420

Darren Smith says Intro to JavaScript "is really a lot of fun. I love this." Darren works for the National Institute of Standards and Technology (NIST) where he is a supervisor and a computer specialist for the UNIX systems group. He's taking this course to learn some new tools to build better web pages.



**PROGRAMMING-cont.****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 300: Saturdays, December 2 and 9, 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). \$420.

**Introduction to Application  
Programming  
CACs 242**

A more intensive first 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.

**Prerequisite:** CAPC 203 *Windows 95 Level I* or equivalent. **Recommended text:** *Problem Solving With C++*, Savitch.

Tom Harrold, Ed.D.

Section 300: Mondays and Wednesdays, September 11-October 4, 6-9 p.m. 8 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$420.

**Intermediate Application Programming  
CACs 342**

Using more advanced programming concepts, students learn to analyze problems encountered and solutions to building larger, more real-world type programs, including criteria for selecting data structures to fit their applications. Object-oriented design is emphasized. Topics include pointers, dynamic data structures (linked lists, queues, stacks, binary trees), recursion, and A/I. Course combines a self-paced laboratory format of hands-on, C++ programming with an in-lab lecture. **Prerequisite:** CACS 242 *Introduction to Application Programming* or equivalent.

**Recommended text:** *Problem Solving With C++*, Savitch.

Tom Harrold, Ed.D.

Section 300: Tuesdays, October 10-November 14, 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). \$395.

**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 303 *Windows 95 Level II* or equivalent.

David Nelson, B.S.

Section 300: Wednesdays, September 6-October 4, 6-9 p.m. 5 sessions. University Management Systems 001. \$380.

**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 Kaminski, M.S.E.E.

Section 300: Saturdays, October 14-28, 9 a.m.-4 p.m. 3 sessions. University Management Systems 001. \$395.

Arv Donovan works for Wall Street on Demand, a company that provides hosting and development and published products for the financial industry. Art signed up for a networks course because, as a nontechnical person in an internet company, "I wanted to learn more about the technology behind the internet. The class helps me appreciate the people who work in Operations in my company and gives me a better understanding of the environment I work in."



### 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 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). We will also cover features of C++ that are not directly related to O-O programming (constants, function overloading, default arguments and inline functions). **Prerequisite:** CACS 343 Intermediate/Advanced C Programming or equivalent. **Recommended text:** *The C++ Programming Language*, 3rd Edition, Stroustrup.

Richard Wolniewicz, Ph.D.

Section 300: Mondays, September 11-October 9, 6-9 p.m. 5 sessions. Humanities 186. \$420.

### Intermediate/Advanced C Programming


**CACS 343**

This course addresses C programming language issues and techniques needed for production programming and preparation for C++ programming. Topics include command line arguments and the environment, the standard C library, file I/O, dynamic memory management, advanced preprocessor features, specialty data structures (bit fields, enumerations, unions), pointers to functions, `stjmp` and `longjmp` and writing functions with a variable number of arguments.

**Prerequisite:** CACS 243 Introduction to C Programming or equivalent.

Jeff Osborn, B.S.

Section 300: Tuesdays, October 3-November 7, 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 140. \$420.

 **Lecture only; no labs.**

### Intermediate/Advanced C++ Programming

**CACS 344**

This 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, arrays of objects. Another aspect of production C++ programming is the process by which programs are built: header files, type-safe linkage, linking with C code. More specialized material will then be covered: operator overloading and references, initialization versus assignment. The second half covers multiple inheritance, templates and exceptions in detail, and introduces the Standard Template Library (STL). We address the subtle question of which kind of problems really need multiple inheritance, and the language complexities of virtual base classes. 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.

Richard Wolniewicz, Ph.D.

Section 300: Mondays, October 16-December 4, 6-9 p.m. 8 sessions. Humanities 186. \$475.

### 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.

Richard Wolniewicz, Ph.D.

Section 300: Saturday, December 9, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$160.

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**PROGRAMMING-cont.****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 or equivalent. **Recommended text:** *Object-Oriented Design Patterns*, Gamma, et al. Greg Holling, B.S.

Section 300: Saturday, October 21, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$160.

**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. **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 300: Friday and Saturday, October 27 and 28, 9 a.m.-5 p.m. 2 sessions. University Computing Center 123. \$465.

**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 300: Tuesdays, September 5-October 17, 6-9 p.m. 7 sessions. Humanities 125. \$470.

**Java for Object-Oriented Experienced Programmers** ☞  
**CACS 347**

This in-depth look at the Java programming language begins with an overview of the Java language, then covers the basics in depth 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 300: Mondays, October 23-December 11, 6-9 p.m. 8 sessions. Stadium 140. \$475.

**Advanced Java Programming Language Topics** ☞  
**CACS 447**

This course examines Java language features in depth. It presents the basic, coarse granularity, thread lifecycle model with specific emphasis on portability: class Thread and related material. This is followed by the fine-grain thread synchronization model for concurrent programming; the synchronized keyword. An inner class is nested within another class; this nesting creates a tight coupling which reduces the usual housekeeping needed for a "helper" class. Reflection lets Java code "observe itself", discovering and manipulating its classes, fields, methods and constructors entirely at run-time. The mechanism enables many powerful dynamic programming techniques. We'll also look at how Java supports serialization for object persistence and object distribution. **Prerequisite:** CACS 347 Java for Object-Oriented Experienced Programmers or equivalent.

George Watson

Section 300: Wednesdays, September 6-October 4, 6-9 p.m. 5 sessions. Humanities 186. \$420.

☞ *Lecture only; no labs.*



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**Advanced Java Library Topics** ☞  
**CACS 448**

This course examines some Java libraries in more depth. The complexity of the java.io package is tamed by understanding its symmetry and use of the (GOF) Decorator design pattern. The java.net section covers both client and server stream and datagram communication using Internet protocols. The java.sql package for relational data base access contains several key abstractions, based on ODBC. Java native interfaces allow Java to front-end code in existing C-linkable languages. Other topics include either Remote Method Invocation or CORBA.

**Prerequisite:** CACS 347 Java for Object-Oriented Experienced Programmers or equivalent.

George Watson

Section 300: Wednesdays, October 18-November 15, 6-9 p.m. 5 sessions. Humanities 186. \$420.

**2D and 3D Graphics with Java** ☞  
**CACS 449**

We'll use the Java programming language to explore 2D and 3D graphics concepts, and to draw some cool pictures. We'll create simple and complex graphics, using both applets and applications, and discuss optimizing your graphics for use on the Internet. We'll also discuss strengths and weaknesses of the Java graphics model.

**Prerequisite:** CACS 348 GUI Programming in Java or equivalent.

Greg Holling, B.S.

Section 300: Saturday, November 18, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$160.

**GUI Programming in Java** ☞  
**CACS 348**

This course covers GUI programming for stand-alone applications and applets on Web pages, using Swing and the Java Foundation Classes. Fundamental topics include: the AWT, components, events, graphics, images, layout management. Swing topics include: model-view-controller, standard dialogs, menus, toolbars, splitter panes, tabbed panes, simple & advanced text components, trees and tables. This is an intermediate level Java course that requires a solid working knowledge of interfaces. **Prerequisite:** CACS 247 Introduction to Object-Oriented Programming using Java or equivalent.

Geoff Thompson, M.S.

Section 300: Mondays, October 23-December 11, 6-9 p.m. 8 sessions. Humanities 125. \$475.

☞ **Lecture only; no labs.**

**Developing Web Applications in Java** ☞  
**CACS 360**

Web applications are a form of client/server program which use a browser to view HTML generated dynamically by a Web server interacting with a server-side application. Web applications are the core component of Web-based e-commerce and business-to-business transactions. Java is a perfect fit because it enables Web applications that are platform and Web server independent. Topics include: HTTP, servlet fundamentals and advanced topics, JavaServer pages using JavaBeans, architectural choices, JDBC and Enterprise JavaBeans. **Prerequisite:** CACS 347 Java for Object-Oriented Experienced Programmers and familiarity with HTML or equivalent.

Geoff Thompson, M.S., and Greg Holling, B.S.

Section 300: Tuesdays, October 24-December 12, 6-9 p.m. 8 sessions. Humanities 125. \$475.

**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 course we will cover the following: What is a servlet? 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, 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 300: Saturday, November 4, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$160.

Niamh Hendrick is working on the Network Certification program. Niamh says, "I'm really enjoying it and learning a lot. I quit my job at the beginning of summer to spend the summer with my teenage son and daughter and also to obtain new work skills. The Continuing Education schedule allows me to do this very well. By fall I'm hoping to start a new career in the IT sector."




**PROGRAMMING-cont.****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, subroutines, regular expressions and the basics of CGI will be covered. This course will be more in-depth than an introduction to Perl, but 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.

Joyce Evans, B.A. and Lynn Schaper, B.A.


Section 300: Mondays and Thursdays, October 23-November 6, 6-9 p.m. 5 sessions. University Management Systems 001. \$420.

**Extensible Mark-up Language (XML)   
CACS 330**

Extensible Mark-up Language (XML) is a W3C standard for encoding self-describing data. It is designed to ease the interchange of diverse types of data across a variety of platforms and applications, including the WWW. This course presents a detailed introduction to XML and its related alphabet soup: DTD (for specifying document types), DOM (for object tree construction) and SAX (for event-based parsing), XSL (for stylesheets), Xlink (for links) and Xpointer (for pointers). The presentation will be technical, suitable for application programmers. Lab exercises cover the use of an XML validator and using the DOM and SAX parsers to extract XML content using Java programs. **Prerequisites:** CACS 247 Introduction to Object-Oriented Programming Using Java, knowledge of programming (preferably in Java), or equivalent. Detailed knowledge of SGML and HTML are not required.

David Rodenbaugh, B.A.

Section 300: Mondays, September 18-October 9, 6-9 p.m. 4 sessions. Stadium 140. \$395.

 **Lecture only; no labs.**

**THE PC  
AND MACINTOSH  
SYSTEMS**

(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.

Lisa Kelly, B.A.

Section 301: Mondays, September 18 and 25, 6-9 p.m. 2 sessions. University Computing Center 127.

Issy Kilbride

Section 302: Thursday, September 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).

Section 303: Tuesday, October 3, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: \$145.

**Windows 95 Level II  
CAPC 303**

This course builds on the skills learned in Windows 95 Level I. Topics include customizing Windows 95; downloading, installing, and uninstalling software; and using system tools (Microsoft Backup, ScanDisk, and Disk Defragmenter). Also learn about the Windows Registry. **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent. **Recommended text:** *Windows 95 Secrets*, Livingston and Straub.

Chris Mattson, B.S.

Section 300: Mondays, October 9 and 16, 6-9 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). \$145.

Phil Xu's reason for taking some additional computer training is "work related." Phil is a software engineer for McData Corporation and he says the company provides a lot of encouragement and support for training.



**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 300: Thursdays, October 26 and November 2, 6-9 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). \$145.

**Introduction to the Macintosh  
CAMC 100**

Meet the friendly system that is a powerful productivity tool. Learn practical business options, system management, and basic graphics with hands-on practice. As time permits, we will demonstrate other more advanced applications for business and personal use. Obtain the confidence and expertise required for other Macintosh courses. **Prerequisite:** CACS 100 **Computer Literacy** or equivalent.

Instructor: TBA

Section 300: Mondays, September 11 and 18, 6-9 p.m. 2 sessions. Humanities 1B35. \$145.

**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.

Jeff Schatz, B.A.

Section 301: Monday and Wednesday, September 18 and 20, 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Section 302: Monday and Wednesday, September 25 and 27, 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Chris Mattson, B.S.

Section 303: Monday and Wednesday, October 9 and 11, 9 a.m.-2:30 p.m. 2 sessions. University Computing Center 127.

All Sections: \$180.

**Word for Macintosh (Office 98) Level I  
CAMC 211**

Tap the full power of flexible, efficient word processing through mastery of Word, the leading Macintosh software package. Learn basics that enable you to produce practical business documents including editing, text/graphic interfaces, and use of key features. **Prerequisite:** CAMC 100 **Introduction to the Macintosh** or equivalent.

Instructor: TBA

Section 300: Mondays, September 25-October 9, 6-9 p.m. 3 sessions. Humanities 1B35. \$180.

**Word 97 (8.0) Level II  
CAPC 313**

Create professional looking documents by learning the difference between page layout and normal mode. Learn headers and footers, page numbering and tables. Use the mail, envelope and label merge and sort functions. Work with toolbars and choose from over 30 professionally created templates. **Prerequisite:** CAPC 213 **Word 97 Level I** or equivalent.

Chris Mattson, B.S.

Section 300: Thursday, October 19, 9 a.m.-4 p.m. 1 session. University Computing Center 127. \$145.

**OFFICE PACKAGES****Microsoft Outlook  
CAPC 217**

Microsoft Outlook is a desktop information management program that helps you organize and share information on the desktop and communicate with others. Learn how to manage personal and business information such as email messages, appointments, contacts, tasks and files. Learn how to connect to the mail server and customize folders. Practice sending and receiving email, attaching and detaching files, and creating links to information on the World Wide Web. **Prerequisite:** CAPC 203 **Windows 95 Level I** or equivalent.

Pat Melton, B.A.

Section 300: Wednesday, October 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). \$145.



**OFFICE PACKAGES-cont.****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.

Peggy Purvis

Section 301: Tuesday, September 12, 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).

Section 302: Wednesday, September 13, 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).

Jeff Schatz

Section 303: Monday and Wednesday, October 16 and 18, 9 a.m.-12 p.m. 2 sessions. University Computing Center 127.

All Sections: \$145.

**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

Section 301: Thursday, October 12, 9 a.m.-4 p.m.

Chris Mattson, B.S.

Section 302: Tuesday, October 24, 9 a.m.-4 p.m.

All Sections: 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). \$145.

**Excel 97 (8.0) Level III  
CAPC 434**

Use the database capabilities of sort, filter, advanced filter and subtotals. Use Pivot tables and learn to write and edit macros to automate repetitive tasks. As time allows, popular functions such as IF, LOOKUP, ROUND and others will be covered. **Prerequisite:** CAPC 334 Excel 97 Level II or equivalent.

Chris Mattson, B.S.

Section 300: Tuesday, October 31, 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). \$145.

**Presentations****PowerPoint 97 (8.0)  
CAPC 221**

Learn to create, edit and print exciting presentations using built-in features and tips/tricks in minutes! Enhance various slides with ClipArt drawings and user created polygons. Create bar or pie graphs to represent your numeric data and bullet and text charts with snazzy fonts and other attributes. Create sleek organizational charts and work with different color schemes. **Prerequisite:** CAPC 213 Word 97 Level I or equivalent.

Pat Melton, B.A.

Section 301: Tuesday and Thursday, September 19 and 21, 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Chris Mattson, B.S.

Section 302: Monday and Thursday, October 23 and 26, 9 a.m.-2:30 p.m. 2 sessions. University Computing Center 127.

All Sections: \$180.

**PowerPoint for Macintosh (Office 98)  
CAMC 221**

Learn to create, edit and print exciting presentations! Enhance various slides with ClipArt drawings. Create bar or pie graphs to represent your numeric data and bullet and text charts with snazzy fonts and other attributes. Create sleek organizational charts, work with different color schemes, use the "Pick a Look" Wizard and more! **Prerequisite:** CAMC 211 Word for Macintosh Level I or equivalent.

Pat Melton B.A.

Section 300: Mondays, October 16-30, 6-9 p.m. 3 sessions. Humanities 1B35. \$180.



On-line  
Excel courses  
available  
through  
Independent  
Learning.  
See page 23.

**DATABASES****FileMaker Pro for Windows 95 (4.1)  
CAPC 251**

Create a variety of databases, formats and merge documents including form generation, field formatting, numeric calculations and summary fields. Learn how to layout graphic screens. Auto entry configuration and report options will also be explored. Other features include sorting, finding, the use of scripting, buttons, and exporting files for merge purposes. **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent.

Lou Kingman, B.A.

Section 300: Wednesday, October 25, 9 a.m.-4 p.m. 1 session. University Computing Center 127. \$145.

**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 301: Saturdays, September 16 and 23, 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).

Issy Kilbride

Section 302: Tuesdays, October 10 and 17, 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).

Chris Mattson, B.S.

Section 303: Mondays, October 30 and November 6, 9 a.m.-4 p.m. University Computing Center 127.

All Sections: 2 sessions. \$210.

Scott Buchholz is working on the Network Administration Certificate. He chose Continuing Education because "CU is convenient and I'm a CU graduate (1999, Geography)." Scott works for Time Warner Telecom in Greenwood Village.

**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 301: Wednesday, October 25, 9 a.m.-4 p.m.

Section 302: Thursday, November 2, 9 a.m.-4 p.m.

All Sections: 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). \$160.

**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 Excel for Windows is recommended.

Chris Mattson, B.S.

Section 300: Wednesdays, November 1 and 8, 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). \$210.



**DATABASES-cont.****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.

Gary Lewis, Ed.D.

Section 300: Wednesdays, October 11-November 15, 6-9 p.m. 6 sessions. University Management Systems 001. \$265.

**DESKTOP PUBLISHING****QuarkXPress for Windows 95 (4.0) Level I  
CAPC 273**

Create page layouts quickly and easily, manipulate graphics and text in basic page composition functions that are easy to understand and use. The class addresses issues of typography, graphic image file formats and camera-ready production. **Prerequisite:** CAPC 213 Word 97 Level I or equivalent.

Rebecca Woulfe, B.F.A.

Section 300: Thursdays, October 19 and 26, 9 a.m.-5 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). \$240.

**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 300: Thursdays, September 14 and 21, 6-9 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). \$155.

**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 scanning and laser printing plus instruction in aesthetics of electronic imaging, you'll be ready to make your own camera-ready images. **Prerequisite:** CAMC 100 Introduction to the Macintosh or equivalent.

Barry Ratliff, M.F.A.

Section 300: Wednesdays, September 20 and 27, 6-9 p.m. 2 sessions. Humanities 1B35. \$155.

**Photoshop for Windows 98 (5.5) 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 301: Monday and Thursday, September 11 and 14, 9 a.m.-4 p.m.

Section 302: Monday and Thursday, October 2 and 5, 9 a.m.-4 p.m.

Section 303: Monday and Thursday, November 6 and 9, 9 a.m.-4 p.m.

All Sections: 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). \$210.

**Photoshop for Macintosh (5.5) 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*.

Rebecca Woulfe, M.F.A.

Section 301: Saturdays, October 7 and 14, 9 a.m.-4 p.m. 2 sessions.

Tim Meehan

Section 302: Tuesdays, October 17-November 7, 6-9 p.m. 4 sessions.

Section 303: Mondays, November 6-27, 6-9 p.m. 4 sessions.

All Sections: Humanities 1B35. \$210.



**Photoshop for Windows 98 (5.5) 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 Level I** or equivalent. Jerry Reynolds, M.S.E.E.

Section 300: Monday and Thursday, November 13 and 16, 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). \$210.

**Photoshop for Macintosh (5.5) 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 300: Saturdays, October 21 and 28, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$210.

**Photoshop for Windows 98 (5.5) Level III  
CAPC 482**

This course will build upon the previous courses of Photoshop. It will include Precise Masking for more accurate image quality and use of the action palette to use repetitive steps. Learn Adobe ImageReady, which is included in Photoshop 5.5 to produce superior web graphics. ImageReady allows you to do Rollovers, Image Slicing, Web Optimization and Animation of Web graphics. **Prerequisite:** CAPC 382 **Photoshop for Windows Level II** or equivalent.

Jerry Reynolds, M.S.E.E.

Schedule: TBA

**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 300: Mondays, October 9 and 16, 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). \$210.

**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 300: Thursdays, October 5-26, 6-9 p.m. 4 sessions. Humanities 1B35. \$210.

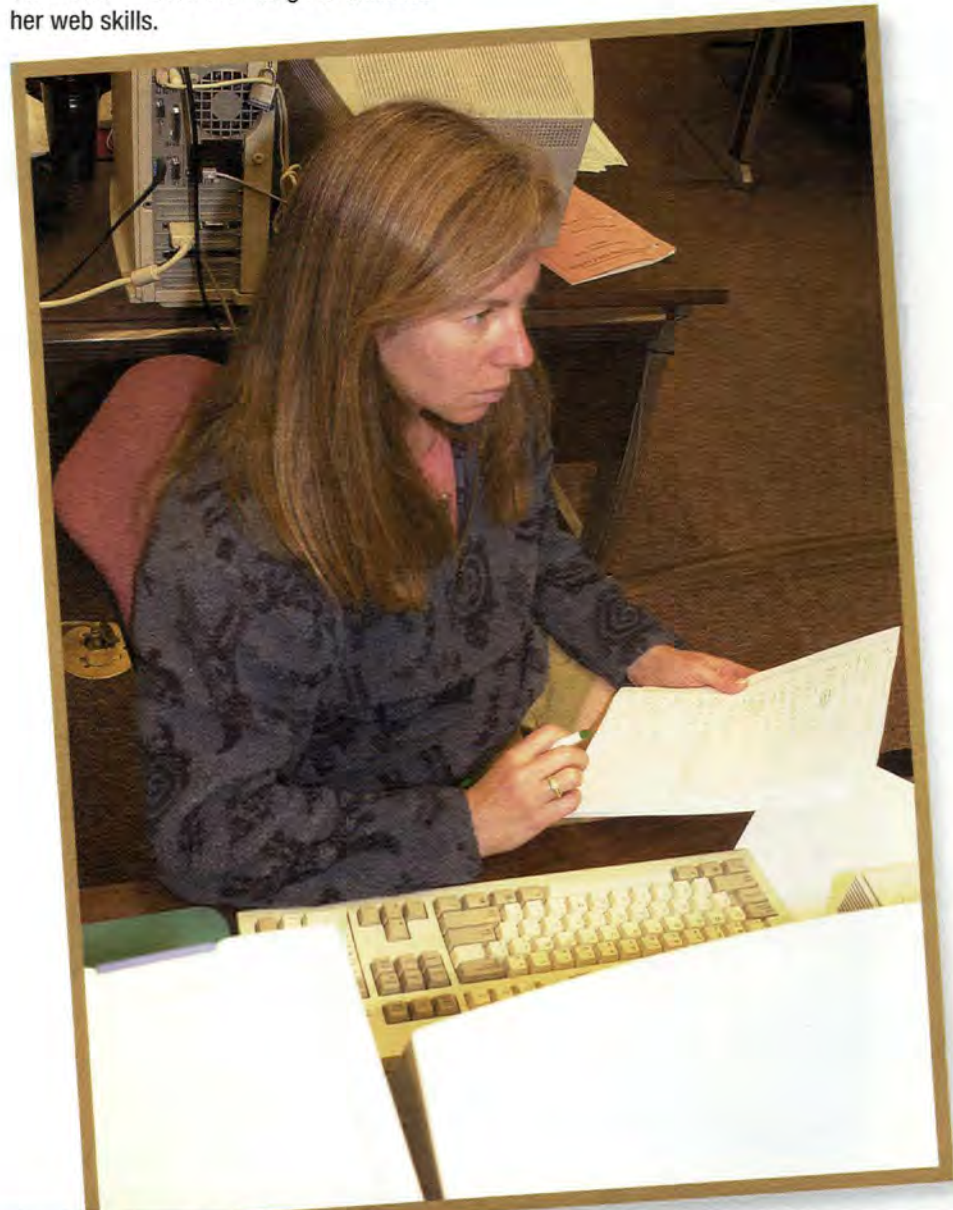
**Illustrator for Windows 98 (8.0) Level II  
CAPC 383**

Further your skills in Adobe Illustrator. Learn new tools and filtering techniques to produce stunning graphics for print or Web applications. Work with vector and bit mapped images to advance your skills with Illustrator. **Prerequisite:** CAPC 283 **Illustrator for Windows Level I** or equivalent.

Jerry Reynolds, M.S.E.E.

Schedule TBA

Bobbie Klein is an associate scientist at NCAR, studying the effects of weather and climate on society. Her group has several web sites, so Bobbie is working on the Certificate in Web Site Design to enhance her web skills.



**FIVE WAYS TO  
BEGINNING  
SEE PAGE 68  
AUGUST 7  
REGISTER**

**MULTIMEDIA**

These courses will be 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 on and Motion Graphics Using Flash CACS 260 on page 50.

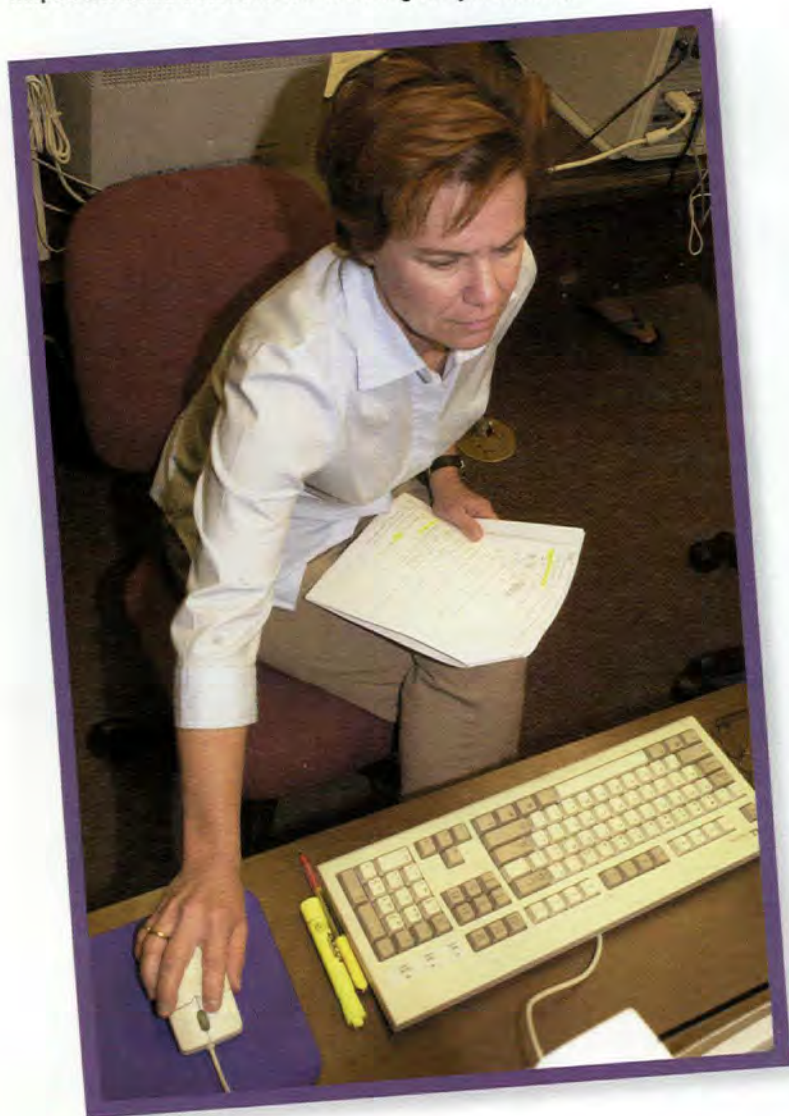
**Macromedia Director (6) Level I  
CAMC 291**

Learn the production of interactive multimedia presentations, including animation, still graphics, voice and sound and 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 Macintosh Computer Art, CAPC 280 Windows Computer Art, or equivalent.

Tim Meehan

Section 300: Saturdays, September 9 and 16, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$240.

Anne Stark just moved here from Beverly Hills where she was a financial advisor, and she's actively pursuing a job as a web designer—a career shift she is really excited about. (At press time, she was very close to landing a job.) Continuing Education classes have helped her build additional skills during her job search.

**Multimedia Solutions  
CAMC 293**

This class introduces the types of equipment and technical considerations used in multimedia productions. It will focus on current types of equipment such as scanners, printers, digital cameras, and computers. The latest add-on boards to enhance productions and other peripheral devices are also covered. There will be hands-on experience with graphic animation authoring software. **Prerequisite:** CAMC 280 Macintosh Computer Art, CAPC 280 Windows Computer Art or equivalent.

William Busch

Section 301: Wednesdays, October 25-November 15, 6-9 p.m.

Section 302: Tuesdays, November 14-December 5, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B35. \$210.

**COMPUTER AIDED DESIGN****AutoCAD 2000 Concepts  
CAPC 161**

This stand-alone course will give you a quick basic look at AutoCAD 2000. It is intended for anyone interested in design or drafting. Topics will include software and hardware purchase considerations and the concepts of AutoCAD drafting and design. **Prerequisite:** CAPC 203 Windows 95 Level I or equivalent.

Michael George, BEnvd, BArch

Section 300: Tuesday and Thursday, September 5 and 7, 6-9 p.m. 2 sessions. University Management Systems 001. \$155.

**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.

David Kingsley

Section 300: Mondays and Thursdays, September 11-28, 6-9 p.m. 6 sessions. University Management Systems 001. \$370.

**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, BEnvd BArch

Section 300: Mondays and Thursdays, October 2-19, 6-9 p.m. 6 sessions. University Management Systems 001. \$370.

Digital  
photography  
course  
available  
through the  
Personal  
Enrichment  
program,  
page 32.



## ARE YOU CONSIDERING A CAREER IN REAL ESTATE?

**SEEKING ADVANCEMENT** in your current real estate-related occupation? Interested in learning about the real estate and appraisal industry? If so, check us out. Our courses are open to everyone.

### KEY PROGRAM FEATURES:

- ❖ a 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,

- ❖ a top-notch faculty who work in the profession and who practice what they teach,
- ❖ a statewide mandate to serve the entire state of Colorado,
- ❖ a “no fear” registration policy which guarantees you a full refund if you are unable to attend the course you signed up for,
- ❖ a system of early registration (“early bird”) discounts which saves you between 5-20% off the regular course fee.

### REAL ESTATE REQUIREMENTS

Colorado real estate license law requires that a candidate successfully complete a total of 168 classroom hours, pass the real estate broker’s examination, and submit the appropriate licensing application to the Colorado Real Estate Commission. The six courses which fulfill the classroom requirements – NCRE 007 (48 hours), NCRE 020 (48 hours), NCRE 022 (8 hours), NCRE 029 (24 hours), NCRE 032 (32 hours), and NCRE 034 (8 hours) – are described below.

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

### COURSES

#### NCRE 007 Real Estate Law and Practice

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

#### NCRE 020 Colorado Contracts and Regulations

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 counter-proposal. Our approach emphasizes thoroughly understanding each clause of a contract and properly completing each type of agreement. 48 hours

#### NCRE 022 Record Keeping and Trust Accounts

In this one-day, 8-hour 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.

**More courses on next page**



Matt Helm is a photographer and web site designer taking Basic Investing because “I want to get a better understanding of the world of finance due to personal needs.” Matt says it’s a good intro course “at the right level—casual but informative.”

**NCRE 029 Real Estate Closings**

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

**NCRE 032 Practical Applications**

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

**NCRE 034 Current Legal Issues**

In this one-day, 8-hour 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.

**CURRENT BROKERS:**  
WE ALSO OFFER LICENSE UPGRADE AND LICENSE RENEWAL COURSES.

**APPRAISAL REQUIREMENTS**

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, pass the Level A licensing exam, and submit a licensing application. The three courses which fulfill the classroom requirements are NCRE 200 (48 hours), NCRE 202 (16 hours), and NCRE 204 (32 hours).

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

**COURSES**

**NCRE 200 Registered Appraiser: Basic Appraisal Principles and Procedures**

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

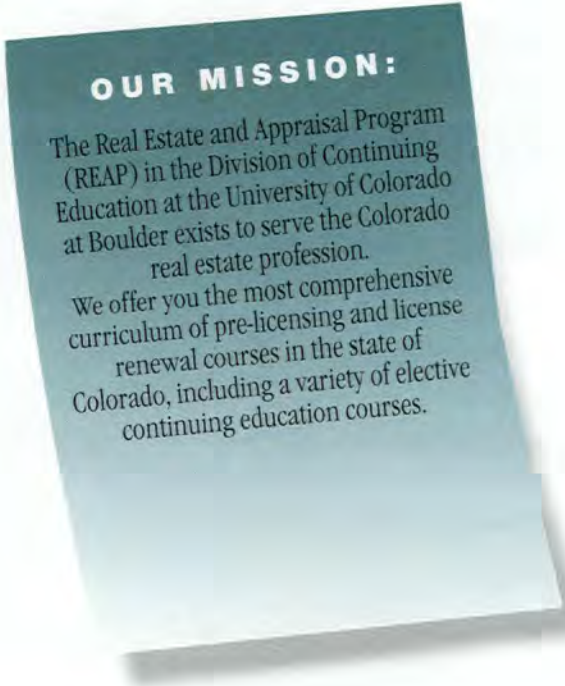
**NCRE 202 Standards and Ethics**

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.

**NCRE 204 Basic Appraisal Applications: Residential Case Study**

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

**CURRENT APPRAISERS:**  
WE ALSO OFFER LICENSE UPGRADE AND LICENSE RENEWAL COURSES.



**REQUEST A REAL ESTATE AND APPRAISAL CATALOG.**

For additional information, course dates, locations, registration, or to be added to our mailing list, contact us at one of the following numbers:  
 Metro Denver/Boulder 303-492-5148  
 National toll-free 800-331-2801  
 FAX 303-492-3962  
 Or Visit the Website:  
[www.colorado.edu/conted/RealEstate/](http://www.colorado.edu/conted/RealEstate/)

# SPECIALIZED PROGRAMS MEET THE NEEDS OF INTERNATIONAL STUDENTS AND MEMBERS OF THE AREA'S HIGH-TECH BUSINESS COMMUNITY.

## 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 \$280 (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 \$280 for seven weeks. For registration information, visit the IEC at 1030 13th Street or call 303-492-5547. Web: [www.colorado.edu/iec](http://www.colorado.edu/iec) Email: [ieccu@colorado.edu](mailto:ieccu@colorado.edu)

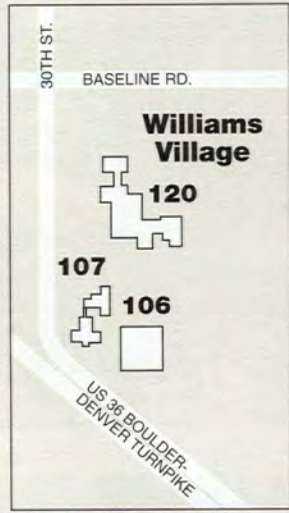
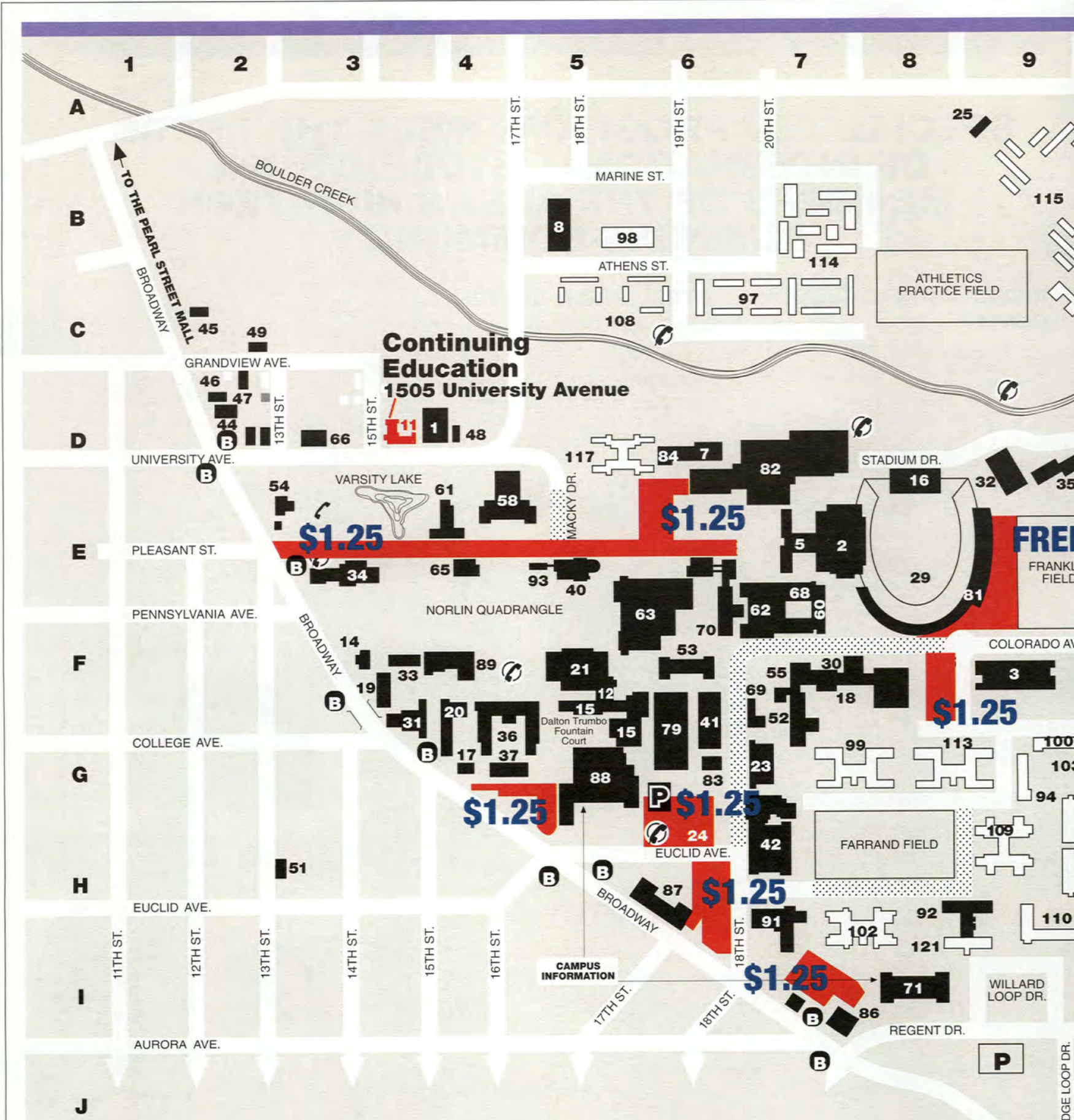
## INTERLOCKEN CENTER

The University of Colorado's Interlocken Center is where the university meets the high-tech pavement, offering world-class faculty, real-world expertise, and premier research facilities to organizations and business professionals. The CU Interlocken Center helps you access the knowledge you need to advance your career. Make the most of your limited schedule with convenient Interlocken classrooms, real-time netcast sessions, on-line study discussion rooms, and results-based curricula.

The Interlocken Center is located at 555 Eldorado Boulevard, Suite 100. Call 303-735-3276 to receive a schedule of courses or visit the web site at [www.cu.edu/Interlocken](http://www.cu.edu/Interlocken)

*ITC Isadora proves that exceptional design talent can overcome seemingly overwhelming technological restrictions with grace and verve. In the case of ITC Isadora, the exceptional talent is Ms. Kris Holmes, and the overwhelming restrictions were those imposed by the digital typesetting imaging process. Ms. Holmes' self-innate talent and the creation of a script that could express both modern ideas and the finest traditions of the 17th and 18th century English typecasters. This in itself is a formidable undertaking, but her project was further complicated by the fact that she was endeavoring to design a script, the most lively and free-spirited of types, for the regimented and, at times, limiting technology of digital bitmap*





**Legend**

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



**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. Helms 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. Koenig 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**

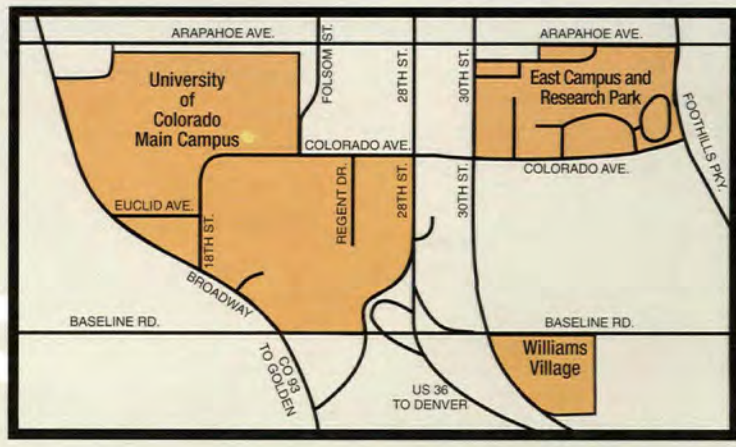
94. Aden Hall (G-9)
95. Andrews Hall-Kittredge Complex (J-11)
96. Arnett Hall-Kittredge Complex (J-12)
97. Athens Court (B/C-6/7)
98. Athens North Court (B-6)
99. Baker Hall (G-7)
100. Brackett Hall (G-9)
101. Buckingham Hall-Kittredge Complex (K-12)
102. Cheyenne Arapaho Hall (H-7)
103. Cockerell Hall (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 AUGUST 7, YOU CAN...**

- 1. REGISTER BY MAIL.** A postage-paid envelope is located in this catalog. Registration forms are on page 69 for credit, page 71 for noncredit and certificate courses.
- 2. FAX YOUR REGISTRATION.** Fast and easy. Day or night to 303-492-3962. Send page 69 for credit courses. Send page 71 for noncredit and certificate courses.
- 3. IN PERSON.** Come to the Continuing Education Office, 1505 University Avenue, between 8 a.m. and 5:30 p.m. Monday through Thursday (8 a.m. to 5 p.m. Fridays).
- 4. BY PHONE FOR NONCREDIT AND CERTIFICATE COURSES USING VISA, MASTERCARD, AND DISCOVER.** Complete the registration form (page 71) and have your credit card information handy. Then call 303-492-8668 or 800-331-2801.
- 5. USE CU CONNECT OR THE WEB FOR BOULDER EVENING COURSES.** See page 5 for more information.

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

**CREDIT PROGRAMS** You can earn academic credit at every level, high school through graduate school. Credit programs include:

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

**LEARNING FOR LEARNING'S SAKE: PERSONAL ENRICHMENT COURSES** The broad range of noncredit courses offered at convenient evening and weekend hours, means no tests, no grades, and no prerequisites. Yet non-credit courses, encompassing both personal and professional interests, are taught by highly qualified instructors. Enjoy non-competitive learning with others who share your interests.

**PROFESSIONAL ENHANCEMENT: CERTIFICATE PROGRAMS** To polish skills or acquire new ones, enhance a career or explore another field, Continuing Education offers a full spectrum of programs.

- Computer Applications**
- Network Administration**
- Programming**
- Web Site Design**

**PROFESSIONAL DEVELOPMENT PROGRAMS** for working professionals to build skills and enhance your understanding of business today.

- 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.

**CHANGE YOUR MIND?** Please let us know. If you withdraw before a course begins, you may receive a full refund. Refer to each program description for refund policies after a course starts.

**STUDENT PRIVACY** You may elect to have directory information withheld about yourself which includes requesting transcripts over the phone. To do this, please visit our office or call to receive the 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 stations. Or call 303-735-5000 for course closing information.

**OTHER QUESTIONS? PROBLEMS? SPECIAL NEEDS?** Disabled individuals should feel free to call our registration staff (TTY 303-492-8905) for special needs and arrangements. We'll gladly assist you.

**BOOKS AND SUPPLIES** required for courses are available at the CU Bookstore in the basement of the University Memorial Center on campus.

Call us at 303-492-5148 or 1-800-331-2801 if you need help or additional information.



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# CREDIT REGISTRATION FORM

**UNIVERSITY OF COLORADO**  
**DIVISION OF CONTINUING EDUCATION**

PROGRAM / TERM

Last Name	First Name	Middle Name	Former or Maiden Name	Suffix
-----------	------------	-------------	-----------------------	--------

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  
 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

**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.**

<p style="text-align: center;">YOU</p> <p>Dates of continuous physical presence in Colorado (mo./day/yr.) _____ / _____ / _____ to _____ / _____ / _____</p> <p>Dates of employment in Colorado (mo./day/yr.) _____ / _____ / _____ to _____ / _____ / _____</p> <p>List exact years for which Colorado income taxes have been filed _____</p> <p>Dates of extended absences from Colorado of more than two months within the past two years (mo./day/yr.) _____ / _____ / _____ to _____ / _____ / _____</p> <p>Dates of active duty military service, if applicable (mo./day/yr.) _____ / _____ / _____ to _____ / _____ / _____</p> <p>Dates stationed in Colorado (mo./day/yr.) _____ / _____ / _____ to _____ / _____ / _____</p> <p>Date of your marriage, if applicable (mo./day/yr.) _____ / _____ / _____ to _____</p> <p>Date current Colorado driver's license, if applicable (mo./day/yr.) _____ / _____ / _____ to _____</p> <p>Issue date of previous Colorado license, if applicable (mo./day/yr.) _____ / _____ / _____ to _____</p> <p>List exact years of Colorado motor vehicle registration _____</p> <p>Date of Colorado voter registration (mo./day/yr.) _____ / _____ / _____ to _____ / _____ / _____</p> <p>Dates of ownership of any Colorado residential property (mo./day/yr.) _____ / _____ / _____ to _____ / _____ / _____</p> <p>Are your parents separated or divorced? Yes _____ No _____</p>	<p style="text-align: center;">CHECK ONE:</p> <p><input type="checkbox"/> PARENT <input type="checkbox"/> GUARDIAN <input type="checkbox"/> SPOUSE</p> <p>_____ / _____ / _____ to _____ / _____ / _____</p> <p>_____ / _____ / _____ to _____ / _____ / _____</p> <p>_____ / _____ / _____ to _____ / _____ / _____</p> <p>_____ / _____ / _____ to _____ / _____ / _____</p> <p>_____ / _____ / _____ to _____</p> <p>_____ / _____ / _____ to _____</p> <p>_____ / _____ / _____ to _____</p> <p>_____ / _____ / _____ to _____ / _____ / _____</p> <p>_____ / _____ / _____ to _____ / _____ / _____</p>
---	--

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 \_\_\_\_\_

## TUITION PAYMENT

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

Charge: VISA  MasterCard  Discover  (check one)

\_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Expiration Date \_\_\_\_\_ / \_\_\_\_\_

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





# 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

Mr. \_\_\_\_\_  
 MS. \_\_\_\_\_  
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 \_\_\_\_\_

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)

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  
 Campus Box 178  
 University of Colorado at Boulder  
 Boulder, CO 80309-0178  
 If using MasterCard, VISA, Discover enclose the following information.

Charge: VISA  MasterCard  Discover  (check one)

\_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Expiration Date \_\_\_\_\_ / \_\_\_\_\_

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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  
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Boulder, Colorado 80309-0178  
[www.colorado.edu/conted](http://www.colorado.edu/conted)

Instruction offered as part of the Statewide Extended Studies Program.

# CONTINUING EDUCATION CONTINUING SOLUTIONS

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.

**EXPLORE, PARTICIPATE AND ENJOY.**

