

# Continuing EDUCATION

UNIVERSITY OF COLORADO AT BOULDER CATALOG

*Learn*



*Come*

*...which in the  
of love: if I had  
I return again  
with the time over  
water for m*

SPRING 2002

# welcome

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

*Since your learning needs are unique, we offer a variety of educational programs – from courses for credit to personal enrichment classes to career-boosting computer courses. Let us help you “learn...grow...become.”*

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

[www.colorado.edu/conted](http://www.colorado.edu/conted) has the most up-to-date details

Credit programs are listed in the front of the catalog

Key policies, procedures, and contact information are detailed on page 66

Registration policies, including drop/add and payment/refund dates, differ by program – be sure to read the respective introduction page

Parking and class building information is detailed on pages 64-65

Tuition payment for Continuing Education is **in addition** to the main campus

## NEW AND NOTEWORTHY

### Boulder Evening

Issues in American Thought and Culture  
HIST 2326, page 13

The Politics of Ideas PSCI 4751, page 15

### Computer Applications

The Certificate in Web Graphics debuts this spring. Required courses include some new offerings such as Introduction to Graphic Design, Shockwave Studio and ColdFusion 5. We expect lots of interest so sign up early. See page 40 for all the details.

## PROGRAM UPDATE

Please note that the refund policy for the Computer Applications Program has been changed. See page 39 for details.

## BACK BY POPULAR DEMAND

### Boulder Evening

Survey of Western Political Thought  
PSCI 2004, page 14

Development of the American Musical Theatre  
THTR 3011, page 17

### Personal Enrichment

Intermediate Oil Painting NCFA 036, page 33

Shakespeare: Page to Stage NCTH 005, page 36

## SCHOLARSHIPS

Scholarship funds are available to students age 25 and older taking a Continuing Education course. The deadline to apply for a spring scholarship is December 4. For more information, call 303-492-5148 or online at [www.colorado.edu/conted/scholar.htm](http://www.colorado.edu/conted/scholar.htm)

Registration Information

See page 66 or call 303-492-5148

# C O N T E N T S

3

## Boulder Evening Credit Program

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

18

## CU Connect and PLUS Registration Information

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

20

## Independent Learning Programs

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

27

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

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

29

## Additional Credit Programs

ACCESS (Available Credit Courses for Eligible Special Students) Program

High School Concurrent Program

CU-Boulder Summer Session

31

## Personal Enrichment Program

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

39

## Computer Applications Program

Hands-on instruction from user-friendly instructors, to teach you the basics or take you to the power-user edge.

Certificates in Network Administration, Programming, Web Site Design and Web Graphics available.

60

## Real Estate and Appraisal Program

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

62

## Special Programs

International English Center

Center for Business Education

2002 Allard Capital Conference

Blurr

Embedded Systems Certificate

Software Engineering Certificate

64

## Campus Map

66

## Registration Information

67

## Credit Registration Form

68

## Noncredit/Certificate Registration Form

**INSIDE BACK COVER**

Index

### CATALOG PRODUCTION

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

"Teaching your native language  
and sharing unique aspects of  
your culture to students of all  
ages is challenging and fun."

*Isabelle Rodriguez  
Beginning Spanish*



*boulder  
evening*

## BOULDER EVENING CREDIT PROGRAM

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

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

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

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

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

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

**Final Grades:** Final grades for Boulder Evening will be available approximately 2 weeks after the course ends. To check your final grade, see the "Grades" information on the CU Connect and PLUS Registration Instructions, page 19.

**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 \$125 per credit hour. Some courses requiring special equipment or materials may be slightly higher.

Nonresidents of Colorado are assessed tuition based on the number of semester hours for which they register. Nonresidents may register for up to three (3) semester hours at the rate of \$240 per credit hour. Nonresidents registering for four (4) or more semester hours of Boulder Evening credit courses will be assessed a significantly higher rate that is comparable to the regular campus, nonresident rate.

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

**Residency:** If you have lived in Colorado for the past 12 months, you may be eligible for in-state tuition rates although you may be asked for documentation. Please see the calendar on page 4 for deadline dates to petition for in-state classification.

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

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

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

**Scholarships:** Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. December 4 is the Spring application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at [www.colorado.edu/conted/scholar.htm](http://www.colorado.edu/conted/scholar.htm).

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

**Transcripts:** Boulder Evening courses and grades are recorded on official University of Colorado transcripts. To request a transcript, call 303-492-8987 or visit the web site at [registrar.colorado.edu/support/transcripts.htm](http://registrar.colorado.edu/support/transcripts.htm) for additional information.

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

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

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

### SURVIVAL TIP:

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

A Spanish class with Isabel Rodriguez is a lot more than a collection of useful phrases and grammar rules; it's a world-widening glimpse of other cultures. Born near Barcelona, Isabel has lived in a variety of European countries and has had a love affair with languages for as long as she can remember. In the classroom, she eagerly shares her passion for languages and her experiences living abroad. "I want my students to learn about culture. I want them to learn how beautiful it is to interact with people in another country."

# BOULDER EVENING REGISTRATION AND ACADEMIC CALENDAR

## SPRING 2002

### December 3

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

Faculty/Staff registration. 50% discount with proof of appointment.

### December 4

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

### January 21

Martin Luther King, Jr., Holiday. University closed.

### January 22

Full Term and Session I classes begin.

### January 25

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

### January 29

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.

### January 30

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

### February 1

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

### February 5

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.

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

### February 6

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

### February 12

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

### February 13

Petition required to add or drop Session I classes.

### February 19

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

### March 5

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

### March 6

Petition required to add or drop Full Term classes.

### March 7 and 11

Session I classes end.

### March 12

Session II classes begin.

### March 15

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

### March 19

5 p.m. deadline to register for Session II classes, add your name to a wait list, request pass/fail status or drop with a 100% refund.

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

### March 20

Instructor's signature required to add or drop Session II classes.

### March 25-29

Spring Break. No classes.

### April 2

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

### April 9

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

### April 10

Petition required to add or drop Session II classes.

### April 30-May 6

Full Term and Session II classes end.

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

# COURSES BY START DATE

## FULL TERM CLASSES

### Courses On Mondays

Course No.-Hours	Sec	Call #	Times	Course Title	Core
ARAB 2110-3	300	30042	5:30-8:30 p.m.	Intermediate Arabic 1	foreign language
ASTR 1120-3	300	30043	6-9 p.m.	General Astronomy: Stars and Galaxies	natural science
BCOR 2010-3	300	30032	6-9 p.m.	Business Statistics	College of Business Core
ECON 1078-3	300	30047	6-9 p.m.	Mathematical Tools for Economists 1	quantitative reasoning and mathematical skills
ENGL 1191-3	300	30059	5:30-8:30 p.m.	Introduction to Creative Writing	none
ENGL 1600-3	300	30051	6-9 p.m.	Masterpieces of American Literature	literature and the arts
HIST 1608-3	300	30093	5:30-8:30 p.m.	Introduction to Chinese History	historical context
JOUR 4874-3	300	30094	6:30-9:30 p.m.	Special Topics: Scriptwriting for the Entertainment Industry	none
MATH 1011-3	300	30068	6-9 p.m.	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills
PHIL 1200-3	300	30070	5:30-8:30 p.m.	Philosophy and Society	United States context or ideals and values
PSYC 2606-3	300	30075	6:30-9:30 p.m.	Social Psychology	contemporary societies
PSYC 4684-3	300	30077	5:30-8:30 p.m.	Developmental Psychology	none
SOCY 1006-3	300	30079	6-9 p.m.	The Social Construction of Sexuality	cultural and gender diversity
THTR 3011-3	300	30085	6-9 p.m.	Development of the American Musical Theatre	literature and the arts

### Courses begin January 28 and end May 6

### Courses On Mondays and Wednesdays

Course No.-Hours	Sec	Call #	Times	Course Title	Core
FINE 1212-3	300	30039	6:45-9:45 p.m.	Painting 1	none
FINE 2191-3	300	30040	6:30-9 p.m.	Photography 2	none
SPAN 1020-5	302	30082	6:30-9 p.m.	Beginning Spanish 2	foreign language
UWRP 3020-3	303	30088	5:30-7 p.m.	Topics in Writing: Native American Topics	written communication

### Courses begin January 23 and end May 6

### Course On Mondays, Wednesdays, and Fridays

Course No.-Hours	Sec	Call #	Times	Course Title	Core
HEBR 1010-5	300	30057	11 a.m.-1 p.m.	Beginning Hebrew 1	foreign language

### Course begins January 23 and ends May 6

### Courses On Tuesdays

Course No.-Hours	Sec	Call #	Times	Course Title	Core
COMM 2400-3	300	30011	6:30-9:30 p.m.	Communication and Society	contemporary societies
ECON 1088-3	300	30012	6-9 p.m.	Mathematical Tools for Economists 2	none
ENGL 3000-3	300	30013	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
ENVS 1000-3	300	30037	6-9 p.m.	Introduction to Environmental Studies	none
EPOB 1220-3	300	30014	6:30-9:30 p.m.	General Biology 2	natural science
HIST 1020-3	300	30020	6:30-9:30 p.m.	Western Civilization 2: 16th Century to the Present	historical context
HIST 2326-3	300	30061	5:30-8:30 p.m.	Issues in American Thought and Culture	United States context
HIST 2866-3	300	30062	6:30-9:30 p.m.	American History and Film	United States context
MGMT 3030-3	300	30022	6:30-9:30 p.m.	Critical Leadership Skills	none
PSCI 1101-3	300	30023	6-9 p.m.	The American Political System	contemporary societies or United States context
PSCI 2223-3	300	30024	5:30-8:30 p.m.	Introduction to International Relations	contemporary societies
SPAN 2120-3	300	30030	6:15-9:15 p.m.	Second-Year Spanish 2	foreign language

### Courses begin January 22 and end April 30

# COURSES BY START DATE

## Courses On Tuesdays and Thursdays

Course No.-Hours	Sec	Call #	Times	Course Title	Core
BCOR 2000-4	300	30010	6:30-8:30 p.m.	Accounting and Financial Analysis 1	College of Business Core
FINE 1012-3	300	30016	6:30-9:30 p.m.	Drawing 1	none
FINE 1171-3	300	30017	6:30-9 p.m.	Photography 1	none
HIST 1010-3	300	30019	5-6:30 p.m.	Western Civilization 1: From Antiquity to the 16th Century	historical context
SLHS 2305-4	300	30026	6-8 p.m.	American Sign Language 1	foreign language
SPAN 1010-5	300	30029	6:30-9 p.m.	Beginning Spanish 1	foreign language
SPAN 1020-5	301	30083	5:30-8 p.m.	Beginning Spanish 2	foreign language
UWRP 3020-3	301	30086	5:30-7 p.m.	Topics in Writing: Environmental Issues	written communication
UWRP 3020-3	302	30087	6:30-8 p.m.	Topics in Writing: World Novel, World View	written communication

## Courses begin January 22 and end May 2

## Courses On Wednesdays

Course No.-Hours	Sec	Call #	Times	Course Title	Core
ECON 2010-4	300	30033	6-9 p.m.	Principles of Microeconomics	contemporary societies
ENGL 3060-3	300	30035	5:30-8:30 p.m.	Modern and Contemporary Literature	literature and the arts
ENGL 3677-3	300	30036	6-9 p.m.	Jewish-American Fiction and Old World Backgrounds	cultural and gender diversity
FILM 3501-3	300	30038	7-10 p.m.	Film Production Management	none
PHIL 1100-3	300	30069	6:30-9:30 p.m.	Ethics	ideals and values
PSYC 1001-3	300	30074	6:30-9:30 p.m.	General Psychology	none
QRMS 1010-3	300	30025	6-9 p.m.	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills
THTR 1009-3	300	30084	6-9 p.m.	Introduction to Theatre	literature and the arts

## Courses begin January 23 and end May 1

## Courses On Thursdays

Course No.-Hours	Sec	Call #	Times	Course Title	Core
ANTH 2020-3	300	30031	6:30-9:30 p.m.	Introduction to Physical Anthropology 2	natural science
COMM 1300-3	300	30045	6:30-9:30 p.m.	Public Speaking	none
ECON 2020-4	300	30048	6-9 p.m.	Principles of Macroeconomics	contemporary societies
FINE 1400-3	300	30053	6:30-9:30 p.m.	History of World Art 2	literature and the arts
HIST 1123-3	300	30060	6:30-9:30 p.m.	The History of England, 1660 to Present	historical context
HIST 3000-3	300	30063	6:30-9:30 p.m.	Seminar in History: American West	critical thinking
KAPH 3420-3	300	30067	6-9 p.m.	Nutrition, Health and Performance	natural science
PSCI 2004-3	300	30071	6-9 p.m.	Survey of Western Political Thought	ideals and values
PSCI 4751-3	300	30089	5:30-8:30 p.m.	The Politics of Ideas	critical thinking
PSYC 4303-3	300	30076	6:30-9:30 p.m.	Abnormal Psychology	none
SOCY 4024-3	300	30081	6-9 p.m.	Juvenile Delinquency	contemporary societies

## Courses begin January 24 and end May 2



**SESSION I****Courses On Mondays and Wednesdays**

Course No.-Hours	Sec	Call #	Times
ENGL 1500-3	100	30034	6-9 p.m.
ENGL 3060-3	100	30091	6-9 p.m.
GEOG 1982-3	100	30055	6-9 p.m.
HIST 1025-3	100	30092	5:30-8:30 p.m.
KAPH 3420-3	100	30066	6-9 p.m.
PSCI 4734-3	100	30073	6-9 p.m.

**Courses begin January 23 and end March 11**

Course Title	Core
Masterpieces of British Literature	literature and the arts
Modern and Contemporary Literature	literature and the arts
World Regional Geography	none
History of the United States since 1865	United States context
Nutrition, Health and Performance	natural science
Politics and Literature	critical thinking

**Courses On Tuesdays and Thursdays**

Course No.-Hours	Sec	Call #	Times
FILM 3563-3	100	30015	7-10 p.m.
GEOG 1001-4	100	30018	6-9 p.m.
JOUR 1002-3	100	30021	6-9 p.m.
SOCY 1004-3	100	30027	6-9 p.m.
SOCY 1015-3	100	30028	6-9 p.m.

**Courses begin January 22 and end March 7**

Course Title	Core
Producing the Feature Film	none
Environmental Systems 1: Climate and Vegetation	natural science
Critical Thinking and Writing	none
Deviance in U.S. Society	ideals and values
U.S. Race and Ethnic Relations	United States context

**SESSION II****Courses On Mondays and Wednesdays**

Course No.-Hours	Sec	Call #	Times
COMM 2400-3	200	30046	6:30-9:30 p.m.
ENGL 1260-3	200	30050	6-9 p.m.
ENGL 3000-3	200	30052	5:30-8:30 p.m.
GEOG 1992-3	200	30056	6-9 p.m.

**Courses begin March 13 and end May 6**

Course Title	Core
Communication and Society	contemporary societies
Introduction to Women's Literature	cultural and gender diversity
Shakespeare for Nonmajors	literature and the arts
Human Geographies	none

**Courses On Tuesdays and Thursdays**

Course No.-Hours	Sec	Call #	Times
COMM 1300-3	200	30044	6-9 p.m.
GEOG 1011-4	200	30054	6-9 p.m.
JOUR 1001-3	200	30064	6-9 p.m.
SOCY 1005-3	200	30078	6-9 p.m.
SOCY 3151-3	200	30080	6-9 p.m.

**Courses begin March 12 and end May 2**

Course Title	Core
Public Speaking	none
Environmental Systems 2: Landscapes and Water	natural science
Contemporary Mass Media	none
Social Conflict and Social Values	contemporary societies or ideals and values
Self in Modern Society	United States context or ideals and values

**ANTHROPOLOGY****Introduction to  
Physical Anthropology 2  
ANTH 2020**

3 SEMESTER HOURS

Continuation of ANTH 2010. Emphasizes quantitative analysis, genetics, and race. Students may not receive credit for both ANTH 2020 and 2060. Prereq., ANTH 2010. Approved for arts and sciences core curriculum: natural science.

*Sue Woods, Ph.D.*

Full Term - Section 300: Call No. 30031  
Thursdays, 6:30-9:30 p.m. Hale 260.  
\$375 (resident).

**ARABIC****Intermediate Arabic 1  
ARAB 2110**

3 SEMESTER HOURS

This course is the first semester of second year Arabic and covers advanced grammar and conversation. ARAB 1010 is tentatively scheduled to be offered fall 2002. Prereq., ARAB 1020. Approved for arts and sciences core curriculum: foreign language.

*Nadia Turk, Ph.D.*

Full Term - Section 300: Call No. 30042  
Mondays, 5:30-8:30 p.m. Hellems 229.  
\$395 (resident).

**ASTRONOMY****General Astronomy:  
Stars and Galaxies  
ASTR 1120**

3 SEMESTER HOURS

Principles of modern astronomy for nonscience majors, summarizing our present knowledge about the Sun, stars, neutron stars, black holes, interstellar gas, galaxies, quasars, and the structure and origins of the universe. ASTR 1110 and 1120 can be taken in either order. There will be opportunities to attend nighttime sessions at Sommers-Bausch Observatory. Some sessions will be at the Fiske Planetarium. Approved for arts and sciences core curriculum: natural science.

*Joe Romig, Ph.D.*

Full Term - Section 300: Call No. 30043  
Mondays, 6-9 p.m. Hale 270.  
\$375 (resident).

**BIOLOGY****General Biology 2  
EPOB 1220**

3 SEMESTER HOURS

Introduces organisms, homeostasis, development, behavior, and ecology. Recommended for science majors who are not EPOB majors. Similar to EPOB 2060 and 2660. Prereq., EPOB 1210 or equivalent. Approved for arts and sciences core curriculum: natural science.

*Beth Bennett, Ph.D.*

Full Term - Section 300: Call No. 30014  
Tuesdays, 6:30-9:30 p.m. Clare Small 207.  
\$375 (resident).

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

4 SEMESTER HOURS

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

*David Weber, B.S.*

Full Term - Section 300: Call No. 30010  
Tuesdays and Thursdays, 6:30-8:30 p.m.  
Business 210. \$500 (resident).

**Business Statistics  
BCOR 2010**

3 SEMESTER HOURS

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.

*SungWook Yoon, M.S., M.B.A.*

Full Term - Section 300: Call No. 30032  
Mondays, 6-9 p.m. Business 224.  
\$375 (resident).

## COMMUNICATION

### Public Speaking COMM 1300

3 SEMESTER HOURS

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

*Joel Guenther, M.A.*

Full Term - Section 300: Call No. 30045  
Thursdays, 6:30-9:30 p.m. Humanities 1B70.  
\$375 (resident).

*David Steiner, Ph.D.*

Session II - Section 200: Call No. 30044  
Tuesdays and Thursdays, 6-9 p.m. Hale 240.  
\$375 (resident).

### Communication and Society COMM 2400

3 SEMESTER HOURS

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

*Joel Guenther, M.A.*

Full Term - Section 300: Call No. 30011  
Tuesdays, 6:30-9:30 p.m. Hellems 237.  
\$375 (resident).

Session II - Section 200: Call No. 30046  
Mondays and Wednesdays, 6:30-9:30 p.m.  
Humanities 135. \$375 (resident).

## ECONOMICS

### Mathematical Tools for Economists 1 ECON 1078

3 SEMESTER HOURS

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

*William Mertens, Ph.D.*

Full Term - Section 300: Call No. 30047  
Mondays, 6-9 p.m. Economics 119.  
\$375 (resident).

### Mathematical Tools for Economists 2 ECON 1088

3 SEMESTER HOURS

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

*William Mertens, Ph.D.*

Full Term - Section 300: Call No. 30012  
Tuesdays, 6-9 p.m. Economics 119.  
\$375 (resident).

### Principles of Microeconomics ECON 2010

4 SEMESTER HOURS

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

*William Mertens, Ph.D.*

Full Term - Section 300: Call No. 30033  
Wednesdays, 6-9 p.m. Economics 13.  
\$500 (resident).

### Principles of Macroeconomics ECON 2020

4 SEMESTER HOURS

Provides an overview of the economy, examining the flows of resources and outputs and the factors determining the levels of income and prices. Explores policy problems of inflation, unemployment, and economic growth. This section requires World Wide Web access for the online recitation. May be taken before ECON 2010. Students may not receive credit for ECON 2020 and 2021 or 1000 or 1001. Approved for arts and sciences core curriculum: contemporary societies.

*Rachel Small, M.B.A.*

Full Term - Section 300: Call No. 30048  
Thursdays, 6-9 p.m. Economics 117.  
\$500 (resident).

Paul Cho plans to attend CU full time eventually, but in the meantime he's taking several Continuing Education classes so he can work during the day. He not only appreciates the convenient class times, but he feels that doing well in the Continuing Education classes will help him get in to CU. "If you can do the CE classes, it shows you can make it and you're serious about attending CU."



## BOULDER EVENING CREDIT

### ENGLISH

#### Introduction to Creative Writing ENGL 1191

3 SEMESTER HOURS

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

*George Moore, Ph.D.*

Full Term - Section 300: Call No. 30059  
Mondays, 5:30-8:30 p.m. Hellems 104.  
\$375 (resident).

#### Introduction to Women's Literature ENGL 1260

3 SEMESTER HOURS

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

*Patricia Thompson, M.A.*

Session II - Section 200: Call No. 30050  
Mondays and Wednesdays, 6-9 p.m.  
Hellems 267. \$375 (resident).

#### Masterpieces of British Literature

ENGL 1500

3 SEMESTER HOURS

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 I - Section 100: Call No. 30034  
Mondays and Wednesdays, 6-9 p.m.  
Hellems 267. \$375 (resident).

#### Masterpieces of American Literature

ENGL 1600

3 SEMESTER HOURS

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

*Joel Daehnke, Ph.D.*

Full Term - Section 300: Call No. 30051  
Mondays, 6-9 p.m. Ketchum 118.  
\$375 (resident).

#### Shakespeare for Nonmajors ENGL 3000

3 SEMESTER HOURS

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

*George Moore, Ph.D.*

Full Term - Section 300: Call No. 30013  
Tuesdays, 5:30-8:30 p.m. Economics 117.  
\$375 (resident).

*Pamela Hadas, Ph.D.*

Session II - Section 200: Call No. 30052  
Mondays and Wednesdays, 5:30-8:30 p.m.  
Hellems 237. \$375 (resident).

#### Modern and Contemporary Literature

ENGL 3060

3 SEMESTER HOURS

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

*George Moore, Ph.D.*

Full Term - Section 300: Call No. 30035  
Wednesdays, 5:30-8:30 p.m. Hellems 229.  
\$375 (resident).

*James McVey, Ph.D.*

Session I - Section 100: Call No. 30091  
Mondays and Wednesdays, 6-9 p.m.  
Hellems 237. \$375 (resident).

#### Jewish-American Fiction and Old World Backgrounds

ENGL 3677

3 SEMESTER HOURS

Explores cross-cultural transitions, influences, and ethnicity in the social and literary history of Europe and America through Jewish experience, expressed in the works of such writers as Heine, Sholom Aleichem, Peretz, Babel, Singer, Malamud, Roth, and Woody Allen. Prereq., sophomore standing. Approved for arts and sciences core curriculum: cultural and gender diversity.

*Joel Salzberg, Ph.D.*

Full Term - Section 300: Call No. 30036  
Wednesdays, 6-9 p.m. Hellems 137.  
\$375 (resident).

Additional writing courses  
are available through Personal  
Enrichment, page 37.

## ENVIRONMENTAL STUDIES

### Introduction to Environmental Studies

ENVS 1000

3 SEMESTER HOURS

Surveys environmental studies, examining ecological, socioeconomic, political, aesthetic, and technological factors that influence the quality of life on Earth. Required for ENVS majors.

*Alcinda Lewis, Ph.D.*

Full Term - Section 300: Call No. 30037  
Tuesdays, 6-9 p.m. Guggenheim 205.  
\$375 (resident).

## FILM STUDIES

### Producing the Feature Film

FILM 3563

3 SEMESTER HOURS

Designed to give students a behind-the-scenes look at the way production in the entertainment industry is structured and works, this course emphasizes the critical role the script plays in the production process. Students analyze story structure and components and production values of various feature scripts. The course 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. 30015  
Tuesdays and Thursdays, 7-10 p.m.  
Humanities 190. \$375 (resident).

Additional fine arts courses are available through Personal Enrichment, pages 33-34.

### Film Production Management

FILM 3501

3 SEMESTER HOURS

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. 30038  
Wednesdays, 7-10 p.m. Muenzinger E113.  
\$375 (resident).

## FINE ARTS

### Drawing 1

FINE 1012

3 SEMESTER HOURS

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

*Tyler Alpern, M.F.A.*

Full Term - Section 300: Call No. 30016  
Tuesdays and Thursdays, 6:30-9:30 p.m.  
Fine Arts N298. \$425 (resident).

### Photography 1

FINE 1171

3 SEMESTER HOURS

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

*Greg Massey, M.F.A.*

Full Term - Section 300: Call No. 30017  
Tuesdays and Thursdays, 6:30-9 p.m.  
Fine Arts C1B53. \$435 (resident).

### Painting 1

FINE 1212

3 SEMESTER HOURS

Explores varied painting techniques. Introduces concepts relevant to the understanding of painting and the creative process. May not be repeated. Recommended for BFA majors instead of FINE 1202.

*Susanna Podboy, M.F.A.*

Full Term - Section 300: Call No. 30039  
Mondays and Wednesdays, 6:45-9:45 p.m.  
Fine Arts N103. \$425 (resident).

### History of World Art 2

FINE 1400

3 SEMESTER HOURS

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

*Christine Dupont-Patz, M.A.*

Full Term - Section 300: Call No. 30053  
Thursdays, 6:30-9:30 p.m. Humanities 1B80.  
\$375 (resident).

### Photography 2

FINE 2191

3 SEMESTER HOURS

Explores more sophisticated technical and conceptual skills to the creative process. Students must have full access to a working 35mm manual camera with a built in working light meter. May not be repeated. Prereq., FINE 1161 or 1171.

*Greg Massey, M.F.A.*

Full Term - Section 300: Call No. 30040  
Mondays and Wednesdays, 6:30-9 p.m.  
Fine Arts N185. \$435 (resident).

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

4 SEMESTER HOURS

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

*Steve Welter, Ph.D.*

Session I - Section 100: Call No. 30018  
Tuesdays and Thursdays, 6-9 p.m.  
Benson Earth Sciences 185. \$500 (resident).

**Environmental Systems 2:  
Landscapes and Water  
GEOG 1011**

4 SEMESTER HOURS

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

*Steve Welter, Ph.D.*

Session II - Section 200: Call No. 30054  
Tuesdays and Thursdays, 6-9 p.m.  
Benson Earth Sciences 185. \$500 (resident).

**World Regional Geography  
GEOG 1982**

3 SEMESTER HOURS

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

*Betsy Forrest, M.A.*

Session I - Section 100: Call No. 30055  
Mondays and Wednesdays, 6-9 p.m.  
Guggenheim 206. \$375 (resident).

**Human Geographies  
GEOG 1992**

3 SEMESTER HOURS

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

*Betsy Forrest, M.A.*

Session II - Section 200: Call No. 30056  
Mondays and Wednesdays, 6-9 p.m.  
Guggenheim 206. \$375 (resident).

**HEBREW****Beginning Hebrew 1  
HEBR 1010**

5 SEMESTER HOURS

This is the introduction to Hebrew. HEBR 1010 is tentatively scheduled to be offered again fall 2003. Approved for arts and sciences core curriculum: foreign language.

*Uri Neil, J.D.*

Full Term - Section 300: Call No. 30057  
Mondays, Wednesdays, and Fridays,  
11 a.m.-1 p.m. Continuing Education  
Center, 1505 University Avenue, Room 140.  
\$625 (resident).

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

3 SEMESTER HOURS

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

*Phil Mitchell, Ph.D.*

Full Term - Section 300: Call No. 30019  
Tuesdays and Thursdays, 5-6:30 p.m.  
Duane Physics G131. \$375 (resident).

**Western Civilization 2:  
16th Century to the Present  
HIST 1020**

3 SEMESTER HOURS

Surveys political, economic, social, and intellectual developments in European history from the 16th century to the present. Similarities and contrasts between European states are underscored, as is Europe's changing role in world history. Approved for arts and sciences core curriculum: historical context.

*Phil Mitchell, Ph.D.*

Full Term - Section 300: Call No. 30020  
Tuesdays, 6:30-9:30 p.m. Duane  
Physics G131. \$375 (resident).

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

3 SEMESTER HOURS

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

*Merle Funk, Ph.D.*

Session I - Section 100: Call No. 30092  
Mondays and Wednesdays, 5:30-8:30 p.m.  
Guggenheim 205. \$375 (resident).

## The History of England, 1660 to Present

HIST 1123

3 SEMESTER HOURS

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

*Jean McGinnis, Ph.D.*

Full Term - Section 300: Call No. 30060  
Thursdays, 6:30-9:30 p.m. Engineering  
Center CR 151. \$375 (resident).

## Introduction to Chinese History

HIST 1608

3 SEMESTER HOURS

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

*Marco De Martino, M.A.*

Full Term - Section 300: Call No. 30093  
Mondays, 5:30-8:30 p.m. Economics 117.  
\$375 (resident).

## Issues in American Thought and Culture

HIST 2326

3 SEMESTER HOURS

Examines the origins, development, and impacts (social, political, cultural, etc.) of significant ideas and themes in the history of American thought. Topics may include Darwinism, technology, race, success and failure, the social gospel, national mission, and utopia. Does not fulfill major requirements. Approved for arts and sciences core curriculum: United States context.

*Merle Funk, Ph.D.*

Full Term - Section 300: Call No. 30061  
Tuesdays, 5:30-8:30 p.m. Economics 13.  
\$375 (resident).

## American History and Film

HIST 2866

3 SEMESTER HOURS

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

*James Fell, Ph.D.*

Full Term - Section 300: Call No. 30062  
Tuesdays, 6:30-9:30 p.m. Hellems 267.  
\$375 (resident).

## Seminar in History: American West

HIST 3000

3 SEMESTER HOURS

Encourages students to explore and analyze a problem, topic, or area through selected readings in primary (when feasible) and secondary sources. Exposes students to the way historians view various complex issues. Enrollment limited to nonmajors. 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. 30063  
Thursdays, 6:30-9:30 p.m. Humanities 125.  
\$375 (resident).

## JOURNALISM

### Contemporary Mass Media

JOUR 1001

3 SEMESTER HOURS

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

*Jan Whitt, Ph.D.*

Session II - Section 200: Call No. 30064  
Tuesdays and Thursdays, 6-9 p.m.  
Economics 205. \$375 (resident).

### Critical Thinking and Writing

JOUR 1002

3 SEMESTER HOURS

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

*Jan Whitt, Ph.D.*

Session I - Section 100: Call No. 30021  
Tuesdays and Thursdays, 6-9 p.m.  
Economics 205. \$375 (resident).

### Special Topics: Scriptwriting for the Entertainment Industry

JOUR 4874

3 SEMESTER HOURS

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

*Frank Iannella, M.A.*

Full Term - Section 300: Call No. 30094  
Mondays, 6:30-9:30 p.m. Humanities 190.  
\$375 (resident).

## BOULDER EVENING CREDIT

### KINESIOLOGY AND APPLIED PHYSIOLOGY

#### Nutrition, Health and Performance KAPH 3420

3 SEMESTER HOURS

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

*Nanci Grayson, M.S., R.D., C.D.E.*

Full Term - Section 300: Call No. 30067  
Thursdays, 6-9 p.m. Clare Small 207.  
\$375 (resident).

*Luke Seaward, Ph.D.*

Session I - Section 100: Call No. 30066  
Mondays and Wednesdays, 6-9 p.m.  
Muenzinger E432. \$375 (resident).

### MANAGEMENT

#### Critical Leadership Skills MGMT 3030

3 SEMESTER HOURS

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. 30022  
Tuesdays, 6:30-9:30 p.m. Muenzinger E113.  
\$375 (resident).

### MATHEMATICS

#### Fundamentals and Techniques of College Algebra MATH 1011

3 SEMESTER HOURS

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

*Craig P. McBride, B.S.*

Full Term - Section 300: Call No. 30068  
Mondays, 6-9 p.m. Engineering Center  
CR 105. \$375 (resident).

### PHILOSOPHY

#### Ethics PHIL 1100

3 SEMESTER HOURS

Introductory study of major philosophies on the nature of the good for humanity, principles of evaluation, and moral choice as they apply to contemporary moral problems. Approved for arts and sciences core curriculum: ideals and values.

*Lee Speer, M.A.*

Full Term - Section 300: Call No. 30069  
Wednesdays, 6:30-9:30 p.m. Economics 119.  
\$375 (resident).

#### Philosophy and Society PHIL 1200

3 SEMESTER HOURS

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.

*David Youkey, Ph.D.*

Full Term - Section 300: Call No. 30070  
Mondays, 5:30-8:30 p.m. Economics 13.  
\$375 (resident).

### POLITICAL SCIENCE

#### The American Political System PSCI 1101

3 SEMESTER HOURS

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

*Vincent McGuire, Ph.D.*

Full Term - Section 300: Call No. 30023  
Tuesdays, 6-9 p.m. Ketchum 301.  
\$375 (resident).

#### Survey of Western Political Thought PSCI 2004

3 SEMESTER HOURS

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

*Vincent McGuire, Ph.D.*

Full Term - Section 300: Call No. 30071  
Thursdays, 6-9 p.m. Ketchum 301.  
\$375 (resident).

#### Introduction to International Relations PSCI 2223

3 SEMESTER HOURS

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

*James C. Ross, Ph.D.*

Full Term - Section 300: Call No. 30024  
Tuesdays, 5:30-8:30 p.m. Clare Small 104.  
\$375 (resident).



## Politics and Literature

### PSCI 4734

3 SEMESTER HOURS

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

*Loren Weinberg, Ph.D.*

Session I - Section 100: Call No. 30073  
Mondays and Wednesdays, 6-9 p.m.  
Ketchum 301. \$375 (resident).

## The Politics of Ideas

### PSCI 4751

3 SEMESTER HOURS

This course aims to give students a practical understanding of the relationship between politics and ideas. It provides an overview of the major political ideas of the 20th century and their impact on U.S. politics and public policy. Students engage in weekly debates that center on key contemporary issues, such as U.S. security, immigration, capital punishment, the role of the media, etc., where political ideas intersect with political practice. Students critically examine how political ideas are represented as collective goals, how problems are defined and events are appropriated, and how policy solutions are strategically framed in public discourse. Prereq., junior or senior standing. Approved for arts and sciences core curriculum: critical thinking.

*James C. Ross, Ph.D.*

Full Term - Section 300: Call No. 30089  
Thursdays, 5:30-8:30 p.m. Economics 13.  
\$375 (resident).

## PSYCHOLOGY

### General Psychology

#### PSYC 1001

3 SEMESTER HOURS

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

*Michael Freedman, Ph.D.*

Full Term - Section 300: Call No. 30074  
Wednesdays, 6:30-9:30 p.m. Hellems 141.  
\$375 (resident).

### Social Psychology

#### PSYC 2606

3 SEMESTER HOURS

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. Similar to PSYC 4406; students may not receive credit for both 2606 and 4406. Prereq., PSYC 1001. Approved for arts and sciences core curriculum: contemporary societies.

*Patrick Vann, Ph.D.*

Full Term - Section 300: Call No. 30075  
Mondays, 6:30-9:30 p.m. Muenzinger E113.  
\$375 (resident).

### Abnormal Psychology

#### PSYC 4303

3 SEMESTER HOURS

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. 30076  
Thursdays, 6:30-9:30 p.m.  
Muenzinger E113. \$375 (resident).

## Developmental Psychology

### PSYC 4684

3 SEMESTER HOURS

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

*Jennifer Schwartz, Ph.D.*

Full Term - Section 300: Call No. 30077  
Mondays, 5:30-8:30 p.m. Muenzinger E131.  
\$375 (resident).

## QUANTITATIVE REASONING AND MATHEMATICAL SKILLS

### Quantitative Reasoning and Mathematical Skills

#### QRMS 1010

3 SEMESTER HOURS

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

*Craig P. McBride, B.S.*

Full Term - Section 300: Call No. 30025  
Wednesdays, 6-9 p.m. Engineering Center  
CR 105. \$375 (resident).



A freshman majoring in Arts and Sciences, Jacqueline Fazendin likes her Continuing Education course, Sex, Gender, and Society I, for three reasons: First, it fulfills a core requirement for her major. Second, since she works during the day, the convenient class time easily fits into her schedule. And finally, Jacqueline – who wants to be a doctor – likes the course. "It's a cool class, it's interesting. The teacher is very down-to-earth."

## BOULDER EVENING CREDIT

## SOCIOLOGY

**Deviance in U.S. Society**  
**SOCY 1004**

3 SEMESTER HOURS

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.

*Instructor: TBA*

Session I - Section 100: Call No. 30027  
Tuesdays and Thursdays, 6-9 p.m.  
Muenzinger E131. \$375 (resident).

**Social Conflict  
and Social Values**  
**SOCY 1005**

3 SEMESTER HOURS

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.

*Instructor: TBA*

Session II - Section 200: Call No. 30078  
Tuesdays and Thursdays, 6-9 p.m.  
Ketchum 235. \$375 (resident).

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

3 SEMESTER HOURS

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.

*Instructor: TBA*

Full Term - Section 300: Call No. 30079  
Mondays, 6-9 p.m. Muenzinger E0046.  
\$375 (resident).

Lonnie Maynes is taking a class in CU's Continuing Education program and is experiencing the rewards of a night class. He has the flexibility to work or take other courses during the day, as many students do. Also, several Continuing Education instructors teach after work, giving students the benefit of their "real world" experience.

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

3 SEMESTER HOURS

Examines race and minority problems in U.S. society, including psychological, social, and cultural sources of prejudice and discrimination. Same as ETHN 1015.

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

*Instructor: TBA*

Session I - Section 100: Call No. 30028  
Tuesdays and Thursdays, 6-9 p.m.  
Muenzinger E064. \$375 (resident).

**Self in Modern Society**  
**SOCY 3151**

3 SEMESTER HOURS

Using a variety of eastern and western perspectives, explores how modern social institutions and culture shape our personal experiences, how personal experiences can affect the nature of those institutions and culture, and how strategies can be developed for achieving balance between the individual and society. Approved for arts and sciences core curriculum: United States context or ideals and values.

*Duncan Rinehart, Ph.D.*

Session II - Section 200: Call No. 30080  
Tuesdays and Thursdays, 6-9 p.m.  
Hellems 241. \$375 (resident).

**Juvenile Delinquency**  
**SOCY 4024**

3 SEMESTER HOURS

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

*Herbert Covey, Ph.D.*

Full Term - Section 300: Call No. 30081  
Thursdays, 6-9 p.m. Hellems 141.  
\$375 (resident).

## SPANISH

**Beginning Spanish 1**  
**SPAN 1010**

5 SEMESTER HOURS

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

*Cassandra Gerber, M.A.*

Full Term - Section 300: Call No. 30029  
Tuesdays and Thursdays, 6:30-9 p.m.  
Hellems 185. \$645 (resident).

**Beginning Spanish 2**  
**SPAN 1020**

5 SEMESTER HOURS

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

*Isabel Rodriguez, M.A.*

Full Term - Section 301: Call No. 30083  
Tuesdays and Thursdays, 5:30-8 p.m.  
Hellems 137. \$645 (resident).

*Javier Garces, B.A.*

Full Term - Section 302: Call No. 30082  
Mondays and Wednesdays, 6:30-9 p.m.  
Hellems 185. \$645 (resident).

Conversational language courses are available through Personal Enrichment, pages 34-36.



## Second-Year Spanish 2

SPAN 2120

3 SEMESTER HOURS

Grammar review. Emphasizes reading, writing, and speaking skills. Attendance at the language laboratory may be mandatory. Prereq., SPAN 2110 with a grade of C- or better, or placement. Approved for arts and sciences core curriculum: foreign language.

*Javier Garces, B.A.*

Full Term - Section 300: Call No. 30030  
Tuesdays, 6:15-9:15 p.m. Hellems 255.  
\$395 (resident).

## SPEECH, LANGUAGE AND HEARING SCIENCES

### American Sign Language 1

SLHS 2305

4 SEMESTER HOURS

Introduces basic sign vocabulary, grammatical structures of ASL, and the culture of deaf people. Classes are taught using ASL without the use of spoken English. Approved for arts and sciences core curriculum: foreign language.

*Willard Moers, M.A.*

Full Term - Section 300: Call No. 30026  
Tuesdays and Thursdays, 6-8 p.m.  
Hellems 251. \$520 (resident).

## THEATRE

### Introduction to Theatre

THTR 1009

3 SEMESTER HOURS

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

*David Steiner, Ph.D.*

Full Term - Section 300: Call No. 30084  
Wednesdays, 6-9 p.m. Humanities 190.  
\$375 (resident).

### Development of the American Musical Theatre

THTR 3011

3 SEMESTER HOURS

Studies the American musical theatre heritage and its relation to the continually changing social milieu. Examines productions, their creators, and performers. Prereq., junior or senior standing; recommended and 3 credit hours in THTR, DNCE, or MUSC.

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

*Annette Thornton, M.A.*

Full Term - Section 300: Call No. 30085  
Mondays, 6-9 p.m. Humanities 1B90.  
\$375 (resident).

## UNIVERSITY WRITING PROGRAM

### Topics in Writing

UWRP 3020

3 SEMESTER HOURS

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

### Environmental Issues

*Anne Bliss, Ph.D.*

Full Term - Section 301: Call No. 30086  
Tuesdays and Thursdays, 5:30-7 p.m.  
Ketchum 120. \$375 (resident).

### World Novel, World View

*Petger Schaberg, M.A.*

Full Term - Section 302: Call No. 30087  
Tuesdays and Thursdays, 6:30-8 p.m.  
Clare Small 209. \$375 (resident).

### Native American Topics

*Catherine Kunce, Ph.D.*

Full Term - Section 303: Call No. 30088  
Mondays and Wednesdays, 5:30-7 p.m.  
Duane Physics G1B27. \$375 (resident).

## CU CONNECT AND PLUS REGISTRATION

In addition to registering by mail, fax (303-492-3962), or in person (1505 University Avenue), Boulder Evening and Independent Learning students are eligible to register using CU Connect (the telephone registration system) or PLUS (web registration). To be eligible to use either CU Connect or PLUS, you must be activated for Continuing Education for the spring and have no academic or financial stop which could prevent you from registering. To be activated for Continuing Education for spring, return the credit registration form on page 67. You will be sent an Invitation to Register through the mail verifying your eligibility along with your personal identification number (PIN). Please remember to keep your PIN confidential. Use of CU Connect or PLUS obligates you to pay any tuition charges as a result of adding any course.

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

### Register Using PLUS

Eligible Boulder Evening and Independent Learning students can register on the Web by accessing the CU home page at [www.colorado.edu](http://www.colorado.edu) and choosing Resources for Students and then Personal Lookup Services (PLUS) or going directly to PLUS at [www.colorado.edu/plus](http://www.colorado.edu/plus) and selecting the "Registration Log-On" button. You will then need to enter your student ID/social security number and personal identification number (PIN) and hit submit. At the registration menu, choose the "Register" tab at the bottom of the page. Then choose Continuing Education Spring 2002 and follow the instructions on the web page from there to add, drop or waitlist for a course, and request pass/fail or no credit. You will need to enter the 5 digit course call numbers to register for courses and click on the

"submit" button to process each course request. To verify your course selections, click on the "Schedule" tab at the bottom of the page. When you're finished, be sure to exit web registration.

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

### Register Using CU Connect

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

the Boulder-campus code 1

the Continuing Education code 1

the registration application code 1

the term code 021

your University student number      -      -      -      -     

your personal identification number (PIN)      -      -      -      -     

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

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

### Other CU Connect Functions

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

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

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

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

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

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

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

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

To **exit** the registration application, press 8# then 1 to access the student billing application for your **account balance and/or credit card payment option** or press 2 to **end** the call.

## Verifying and Adjusting Your Schedule

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

## Wait Lists

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

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

## Account Balances

The amount of tuition you owe is available both through CU Connect and PLUS. Credit card payments, using VISA, MasterCard or Discover, can be made on CU Connect and PLUS. You can also call our accounting office at 303-492-2212 to make a credit card payment, fax your credit card information to 303-492-3962, or visit our offices at 1505 University Avenue.

## Course Restrictions

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

## Grades

To access your grades through the Web, log on to [www.colorado.edu/plus](http://www.colorado.edu/plus), choose "Log-On", then enter your student ID number and PIN, and choose the grades option. To access your grades through CU Connect call 303-938-8110 from any touch-tone phone, press 1 for the Boulder campus, 1 for Continuing Education, 2 for the grade code function and enter the term code (021 for spring) followed by your student number and PIN. To determine the term code for previous semesters, the first two digits are the year and the last digit the semester (1=Spring, 4=Summer, 7=Fall).

## Additional Web Functions

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

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

## Problems? Questions?

If you have any type of registration stop, you will not be allowed to enroll via CU Connect or PLUS. Please call our registration office at 303-492-5148 for more information on your stop. This information is also available on PLUS at [www.colorado.edu/plus](http://www.colorado.edu/plus) by signing on with your ID (student identification number) and PIN (Personal Identification Number), hit submit and choose the "Registration Status" tab at the bottom of the page.

If you need additional assistance, please call our registration office at 303-492-5148 between 8:30 a.m. and 5 p.m. Monday-Friday. If you need help after hours, a recorded message with helpful hints is available by calling 303-492-5145 and choose option "5" for CU Connect information.



# INDEPENDENT LEARNING - *it's up to you*

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

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

So, it's up to you to challenge yourself and to decide how you want to take a course. Complete course descriptions are available from Independent Learning Programs or on the Web: [www.colorado.edu/cewww](http://www.colorado.edu/cewww).

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
<b>ANTHROPOLOGY</b>							
ANTH	1030	650	Principles of Anthropology 1	Kathy Greene, M.A.	3	30096	\$300
ANTH	1040	650	Principles of Anthropology 2	Kathy Greene, M.A.	3	30097	\$300
ANTH	2010	650	Introduction to Physical Anthropology 1	Kathy Greene, M.A.	3	30098	\$300
ANTH	2020	650	Introduction to Physical Anthropology 2	Kathy Greene, M.A.	3	30099	\$300
ANTH	2070	640	Bones, Bodies, and Disease	Dawn Mulhern, Ph.D.	3	30100	\$360
ANTH	2200	650	Introduction to Archaeology	Kathy Greene, M.A.	3	30101	\$300
<b>ASTRONOMY</b>							
ASTR	1110	640	General Astronomy: The Solar System	Kelly Cline, M.S.	3	30102	\$360
<b>COMMUNICATION</b>							
COMM	2400	640	Communication and Society	Robert Agne, M.A.	3	30103	\$360
COMM	2400	650	Communication and Society	Robert Agne, M.A.	3	30104	\$360
COMM	4600	640	Senior Seminar: Computer-Mediated Communication in Organizations	Brenda J. Allen, Ph.D.	3	30105	\$360
<b>COMPUTER SCIENCE</b>							
CSCI	2830	640	Special Topics: Social, Ethical, and Professional Issues in Computer Science	James P. Gately, M.T.	1	30106	\$120
CSCI	2830	650	Special Topics: Social, Ethical, and Professional Issues in Computer Science	James P. Gately, M.T.	1	30107	\$120
<b>ECONOMICS</b>							
ECON	2010	641	Principles of Microeconomics	Laura Argys, Ph.D.	4	30307	\$480
ECON	2010	650	Principles of Microeconomics	Laura Argys, Ph.D.	4	30109	\$480
ECON	2020	640	Principles of Macroeconomics	Jules Kaplan, Ph.D.	4	30110	\$480
ECON	2020	650	Principles of Macroeconomics	Laura Argys, Ph.D.	4	30111	\$480
ECON	3403	640	International Economics and Policy	Jules Kaplan, Ph.D.	3	30112	\$360
ECON	4111	640	Money and Banking Systems	Jules Kaplan, Ph.D.	3	30113	\$360

\* SECTION LEGEND

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

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
<b>EDUCATION</b>							
EDUC	4161	640	Children's Literature	Phyllis Kennemer, Ed.D.	3	30114	\$360
EDUC	4161	650	Children's Literature	Phyllis Kennemer, Ed.D.	3	30115	\$360
EDUC	4322	650	Literature for Middle School and Secondary School Teachers	Caroline McKinney, M.A.	3	30116	\$300
<b>ENGLISH</b>							
ENGL	1191	650	Introduction to Creative Writing	Michael Arvey, M.A.	3	30118	\$300
ENGL	1260	650	Introduction to Women's Literature	Nancy Story, M.A.	3	30119	\$300
ENGL	1600	650	Masterpieces of American Literature	John Quinn, M.A.	3	30120	\$300
ENGL	2000	581	Literary Analysis	Jeanne Yeasting, Ph.D.	3	30306	\$474
ENGL	2021	650	Introduction to Poetry Workshop	Michael Arvey, M.A.	3	30121	\$300
ENGL	3000	650	Shakespeare for Nonmajors	Rhonda Sanford, Ph.D.	3	30122	\$300
ENGL	3051	640	Intermediate Fiction Workshop	Todd Pinney, Ph.D.	3	30123	\$360
ENGL	3051	650	Intermediate Fiction Workshop	Todd Pinney, Ph.D.	3	30124	\$360
ENGL	3060	640	Modern and Contemporary Literature	Todd Pinney, Ph.D.	3	30126	\$360
ENGL	3060	650	Modern and Contemporary Literature	Todd Pinney, Ph.D.	3	30127	\$360
ENGL	3081	650	Intermediate Nonfiction Workshop: Travel Journal Writing	Todd Pinney, Ph.D.	3	30128	\$300
ENGL	3553	650	Chaucer: The Canterbury Tales	Zelda Rouillard, Ph.D.	3	30129	\$300
ENGL	3563	650	Shakespeare 1	Rhonda Sanford, Ph.D.	3	30130	\$300
ENGL	3573	650	Shakespeare 2	Rhonda Sanford, Ph.D.	3	30131	\$300
ENGL	3655	640	American Literature to 1860	Todd Pinney, Ph.D.	3	31032	\$360
ENGL	3655	650	American Literature to 1860	Todd Pinney, Ph.D.	3	30133	\$360
ENGL	3665	640	American Literature after 1860	Todd Pinney, Ph.D.	3	30134	\$360
ENGL	3665	650	American Literature after 1860	Todd Pinney, Ph.D.	3	30135	\$360
ENGL	4100	650	The English Language	Zelda Rouillard, Ph.D.	3	31036	\$300
<b>FINE ARTS</b>							
FINE	1012	650	Drawing 1	Patricia Cheyne, M.F.A.	3	30137	\$300
FINE	3637	650	Art for the Elementary Teacher	Patricia Cheyne, M.F.A.	3	30139	\$300
<b>GEOGRAPHY</b>							
GEOG	1001	650	Environmental Systems 1: Climate and Vegetation	Dixon Smith, Ph.D.	4	30140	\$400
GEOG	1011	650	Environmental Systems 2: Landscapes and Water	Dixon Smith, Ph.D.	4	30141	\$400
GEOG	1992	640	Human Geographies	Leigh Miller, M.A.	3	30142	\$360
<b>GEOLOGY</b>							
GEOL	1010	640	Introduction to Geology 1	Emily CoBabe, Ph.D.	3	30143	\$360
GEOL	1010	650	Introduction to Geology 1	Emily CoBabe, Ph.D.	3	30144	\$360
GEOL	1020	650	Introduction to Geology 2	Hilde Schwartz, Ph.D.	3	30145	\$300

Additional distance learning courses are available through CATECS, pages 27-28.

## INDEPENDENT LEARNING

Dept.	Course		Course Title	Instructor	Credit Hours	Call Number	Tuition
No.	Section*						
<b>HISTORY</b>							
HIST	1010	640	Western Civilization 1: Antiquity to the 16th Century	Jeanne Christensen, M.A.	3	30146	\$360
HIST	1010	650	Western Civilization 1: Antiquity to the 16th Century	Jeanne Christensen, M.A.	3	30147	\$360
HIST	1015	650	History of the United States to 1865	James Fell, Ph.D.	3	30148	\$300
HIST	1020	640	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, M.A.	3	30149	\$360
HIST	1020	650	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, M.A.	3	30150	\$360
HIST	1025	650	History of the United States since 1865	James Fell, Ph.D.	3	30151	\$300
HIST	2117	640	History of Colorado	James Fell, Ph.D.	3	30152	\$360
HIST	2117	650	History of Colorado	James Fell, Ph.D.	3	30153	\$360
HIST	4217	650	The American West in the Nineteenth Century	Anthony McGinnis, Ph.D.	3	30154	\$300
HIST	4227	650	The American West in the Twentieth Century	Anthony McGinnis, Ph.D.	3	30155	\$300
HIST	4733	640	The Russian Revolution and the Soviet Regime	John Hatch, Ph.D.	3	30156	\$360
<b>JOURNALISM</b>							
JOUR	1001	640	Contemporary Mass Media	Rebecca Self, Ph.D.	3	30157	\$360
JOUR	3771	640	Mass Communication History	Cinda Gillilan Ph.D.	3	30158	\$360
<b>KINESIOLOGY AND APPLIED PHYSIOLOGY</b>							
KAPH	3420	640	Nutrition, Health, and Performance	Mary Beth Lynch, Ph.D.	3	30159	\$360
KAPH	3420	650	Nutrition, Health, and Performance	Frank Konishi, Ph.D.	3	30160	\$360
<b>MATHEMATICS</b>							
MATH	1011	650	Fundamentals and Techniques of College Algebra	Brian Clark, M.A.	3	30161	\$300
MATH	1021	650	Numerical and Analytical College Trigonometry	Kristen Marshall, Ph.D.	2	30162	\$200
MATH	1071	650	Finite Mathematics for Social Science and Business	Kristen Marshall, Ph.D.	3	30163	\$300
MATH	1081	650	Calculus for Social Science and Business	Kristen Marshall, Ph.D.	3	30164	\$300
MATH	1300	650	Analytic Geometry and Calculus 1	Brian Clark, M.A.	5	30165	\$500
MATH	2300	650	Analytic Geometry and Calculus 2	Kristen Marshall, Ph.D.	5	30166	\$500
<b>MUSIC</b>							
EMUS	1081	650	Basic Music Theory	Debbie Corisis, M.A.	3	30117	\$300
<b>PHILOSOPHY</b>							
PHIL	1000	650	Introduction to Philosophy	Barbara Morrison, Ph.D.	3	30167	\$300
PHIL	1100	650	Ethics	Barbara Morrison, Ph.D.	3	30168	\$300
PHIL	1600	650	Philosophy and Religion	Barbara Morrison, Ph.D.	3	30169	\$300
PHIL	4040	650	Studies in Twentieth-Century Philosophy	Barbara Morrison, Ph.D.	3	30170	\$300
<b>POLITICAL SCIENCE</b>							
PSCI	1101	650	The American Political System	Jeffrey Ian Ross, Ph.D.	3	30171	\$300
PSCI	2223	650	Introduction to International Relations	Jeffrey Ian Ross, Ph.D.	3	30172	\$300

## \* SECTION LEGEND

65x = print-based correspondence course

64x = online, self-paced course

58x = online, term-based course



Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
<b>PSYCHOLOGY</b>							
PSYC	1001	650	General Psychology	Tim Bockes, Ph.D.	3	30173	\$300
PSYC	2012	640	Biological Psychology 1	Howard Bashinski, Ph.D.	3	31074	\$360
PSYC	2012	650	Biological Psychology 1	Howard Bashinski, Ph.D.	3	30175	\$360
PSYC	2022	650	Biological Psychology 2	Howard Bashinski, Ph.D.	3	30176	\$300
PSYC	2303	640	Psychology of Adjustment	Brett King, Ph.D.	3	30177	\$360
PSYC	2303	650	Psychology of Adjustment	Brett King, Ph.D.	3	30178	\$360
PSYC	2606	640	Social Psychology	ShawnaLee Washam, Ph.D.	3	30179	\$360
PSYC	2606	650	Social Psychology	ShawnaLee Washam, Ph.D.	3	30180	\$360
PSYC	3101	640	Statistics and Research Methods in Psychology	Howard Bashinski, Ph.D.	4	30181	\$480
PSYC	3101	650	Statistics and Research Methods in Psychology	Howard Bashinski, Ph.D.	4	30182	\$480
PSYC	4303	640	Abnormal Psychology	Brett King, Ph.D.	3	30183	\$360
PSYC	4303	650	Abnormal Psychology	Brett King, Ph.D.	3	30184	\$360
PSYC	4456	640	Psychology of Personality	Tim Bockes, Ph.D.	3	30185	\$360
PSYC	4456	650	Psychology of Personality	Tim Bockes, Ph.D.	3	30186	\$360
PSYC	4511	650	History of Psychology	Wayne Viney, Ph.D.	3	30187	\$300
PSYC	4684	640	Developmental Psychology	Cheryl Sanders, Ph.D.	3	30188	\$360
PSYC	4684	650	Developmental Psychology	Cheryl Sanders, Ph.D.	3	30189	\$360
<b>SOCIOLOGY</b>							
SOCY	1001	640	Analyzing Society	Steve Wilson, Ph.D.	3	30298	\$360
SOCY	1001	650	Analyzing Society	Steve Wilson, Ph.D.	3	30190	\$360
SOCY	1016	650	Sex, Gender and Society 1	Eleanor Hubbard, Ph.D.	3	30192	\$300
SOCY	4014	641	Criminology	Steve Wilson, Ph.D.	3	30197	\$360
SOCY	4014	650	Criminology	Steve Wilson, Ph.D.	3	30194	\$360
SOCY	4025	640	Conflict Management in Social Systems	Guy Burgess, Ph.D.	3	30195	\$360
SOCY	4086	641	Family and Society	Eleanor Hubbard, Ph.D.	3	30196	\$360
<b>SPEECH, LANGUAGE AND HEARING SCIENCES</b>							
SLHS	4035	581	The Linguistic Structure of ASL	Jeffrey Davis, Ph.D.	3	30300	\$597
SLHS	5035	581	The Linguistic Structure of ASL	Jeffrey Davis, Ph.D.	3	30301	\$597
SLHS	5045	581	Discourse Analysis of ASL	Cynthia Roy, Ph.D.	3	30302	\$597
SLHS	5055	581	Assessing First and Second Language Skills	Suzette Garay, Ph.D.	3	30303	\$597
<b>UNIVERSITY WRITING PROGRAM</b>							
UWRP	3040	581	Writing on Business and Society	Anne Bliss, Ph.D.	3	30304	\$474
UWRP	3040	582	Writing on Business and Society	Amy Goodloe, M.A.	3	30305	\$474

## INDEPENDENT LEARNING

## SPRING 2002 TERM-BASED WEB COURSES

*These courses are offered on a term basis in order to provide rich interaction with your instructor and the other students in the course. They follow a calendar of assignments and examinations. Note the term dates carefully. These courses are conducted as virtual seminars, requiring significant amounts of writing and significant amounts of interaction with the instructor and other students. Plan on 90 hours of work in addition to approximately 45 hours with the study guide.*

**Literary Analysis****ENGL 2000**

3 SEMESTER HOURS

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

Section 581 Call No. 30506

Term Dates: January 22-May 9

Instructor: Jeanne Yeasting, Ph.D.

Tuition: \$474.

**Linguistic Analysis of ASL****SLHS 4035/5035**

3 SEMESTER HOURS

ASL Linguistics provides an introduction to the linguistic structures of American Sign Language, including phonology, morphology, syntax, and pragmatics. Specific goals of the course include: improving observational skills in analyzing ASL; improving understanding of the phonological structure of ASL; improving understanding of the morphological structure of ASL; improving understanding of the syntactic structure of ASL; learning about the sociolinguistic rules concerning ASL in the Deaf community; understanding the development of ASL in children. Prerequisites: knowledge of ASL, English, and permission of instructor.

SLHS 4035 Section 581 Call No. 30300

SLHS 5035 Section 581 Call No. 30301

Term Dates: January 22-May 9

Instructor: Jeffrey Davis, Ph.D.

Tuition: \$597.

**Discourse Analysis of ASL****SLHS 5045**

3 SEMESTER HOURS

This course provides an introduction to discourse analysis, focusing on ASL and English discourse. Topics will include general discourse issues such as discourse analysis approaches, the advantages and disadvantages of qualitative and quantitative research, natural data collection, technology for research in spoken and signed languages, and topics specific to ASL, including transcription in ASL, use of space and spatial mapping, involvement strategies, discourse structures, narrative, non-manual signals (NMS), footing, contextualization cues, interpreted discourse, and turn-taking. Prerequisites: ASL Linguistics (or similar course) and permission of instructor.

Section 581 Call No. 30302

Term Dates: January 22-May 9

Instructor: Cynthia Roy, Ph.D.

Tuition: \$597.

## Assessing 1st and 2nd Languages

SLHS 5055

3 SEMESTER HOURS

This course is designed to introduce students to the concepts of assessment and evaluation of language skills. The focus is on assessment of second language skills of ASL students; however, there will be some discussion of assessment of first language skills in deaf children and in interpreting students. The goal of this course is to introduce general approaches to second language testing, types of language assessment and to provide the ASL and/or interpreting teacher with some practical information about assessing second language skills in the classroom. Topics to be included are types of assessment, purpose of assessment, reliability, validity, issues of test construction, administration, and grading, and differentiating language skills from interpreting skills during assessment. In the course we will also explore some interpreting assessments and examine the ways that they separate the evaluation of language from the evaluation of interpreting skills. This course will provide experience in assessing second language skills; it will not include assessment of interpreting skills. This type of assessment is different from assessing language skills, and will be covered in depth in future classes. This course will be a prerequisite for any courses in interpreting assessment.

Section 581 Call No. 30303

Term Dates: January 22-May 9

Instructor: Suzette Garay, Ph.D.

Tuition: \$597.

## Writing on Business and Society

UWRP 3040

3 SEMESTER HOURS

Through selected readings and daily writing assignments, students examine ethical and social issues that arise in business. Focusing on critical thinking, analytical and argumentative writing, and oral presentation, the course emphasizes effective communication with non-technical audiences. Classes are conducted as workshops. Prerequisite: junior standing. Course intended for business majors and minors. Approved for arts and sciences core curriculum: written communication. Course available via the Web only. Internet-ready computer and SLIP/PPP connection or online service required. Students must have access to and use Microsoft Word, version 6.0 or higher.

Section 581 Call No. 30304

Term Dates: January 22-May 9

Instructor: Anne Bliss, Ph.D.

Tuition: \$474.

Section 582 Call No. 30305

Term Dates: January 22-May 9

Instructor: Amy Goodloe, M.A.

Tuition: \$474.

## 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: \$280.

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

# HIGH SCHOOL INDEPENDENT LEARNING

IN COOPERATION WITH YOUR HIGH SCHOOL, we offer high school correspondence courses. You can take these courses with the approval of your school. Your high school grants credit when you successfully complete courses. And it's up to you to decide when and where to learn. Self-paced courses put you in control. Additional information and course descriptions are available from Independent Learning Programs or on the Web at [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 \$90 per course. Syllabus and texts are extra.

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

## BUSINESS EDUCATION

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

## ENGLISH

HENG 0155 Basic Grammar 1  
 HENG 0255 Intermediate Grammar  
 HENG 1701 The Short Story  
 HENG 2102 The American Short Story  
 HENG 2302 Basic Expository Writing  
 HENG 3155 Ninth Grade English 1  
 HENG 3255 Ninth Grade English 2  
 HENG 3555 Tenth Grade English 1  
 HENG 3655 Tenth Grade English 2  
 HENG 3955 Eleventh Grade English 1  
 HENG 4055 Eleventh Grade English 2  
 HENG 4355 Twelfth Grade English 1  
 HENG 4455 Twelfth Grade English 2

## HOME ECONOMICS

HFCS 1155 Personal Adjustment and Family Living

## MATHEMATICS

HMTH 0155 Basic Mathematics 1  
 HMTH 0255 Basic Mathematics 2  
 HMTH 0555 General Mathematics 1  
 HMTH 0655 General Mathematics 2  
 HMTH 0956 Business and Consumer Mathematics 1  
 HMTH 1056 Business and Consumer Mathematics 2  
 HMTH 3157 Beginning Algebra 1  
 HMTH 3257 Beginning Algebra 2  
 HMTH 3555 Geometry 1  
 HMTH 3655 Geometry 2  
 HMTH 3956 Advanced Algebra 1  
 HMTH 4056 Advanced Algebra 2  
 HMTH 4356 Precalculus 1: Analytical Geometry and Algebra  
 HMTH 4456 Precalculus 2: Trigonometry

## SCIENCE

HSCI 0156 Health Science 1  
 HSCI 0256 Health Science 2  
 HSCI 2557 Biology 1  
 HSCI 2656 Biology 2  
 HSCI 5155 Biology 3: Advanced Biology

## SOCIAL STUDIES

HSST 0156 Civics  
 HSST 0355 Sociology  
 HSST 0755 Psychology  
 HSST 1755 Ethnic Studies and Human Relations  
 HSST 2157 World Geography 1  
 HSST 2257 World Geography 2  
 HSST 3156 World History 1  
 HSST 3256 World History 2  
 HSST 3357 American History 1  
 HSST 3457 American History 2  
 HSST 3756 American Government: Theories, Policies, and Politics  
 HSST 3856 American Government: National Level

## STUDY SKILLS

HSTS 0101 Effective Methods of Study



**INDEPENDENT LEARNING –  
IT'S UP TO YOU.**

On the Web: [www.colorado.edu/cewww](http://www.colorado.edu/cewww)  
 303-492-8757 (toll free, 800-331-2801)

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

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

- Graduate engineering courses delivered to your worksite via live microwave TV broadcasts with two-way audio and via videotape.
- Master's degree programs and some certificate programs are available in Aerospace Engineering, Computer Science, Electrical and Computer Engineering, Engineering Management, 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 5016	Space Life Sciences	Klaus	11-12:15	TR
ASEN 5022	Dynamics of Aerospace Structures	Park	3:30-4:45	TR
ASEN 5047	Probability and Statistics for Aerospace Engineering Sciences	Morgenthaler	2-3:15	TR
ASEN 5090	GPS Software and Applications	Larson	1-1:50	MWF
ASEN 5215	Oceanography	Emery	9-9:50	MWF

### CIVIL ENGINEERING

CVEN 5111	Introduction to Structural Dynamics	Dow	10-10:50	MWF
CVEN 5534	Wastewater Treatment	Silverstein	2-3:15	TR

### COMPUTER SCIENCE

CSCI 5454	Design and Analysis of Algorithms	Gabow	4-5:15	MW
CSCI 5817	Database Systems	King	5:30-6:45	MW
CSCI 5828	Foundations of Software Engineering	Wolf	10:30-11:45	MWF
CSCI 6448	Object Oriented Programming and Design	Anderson	12:30-1:45	TR
CSCI 6838	User Interface Design	Sumner	5:30-8	T

### ELECTRICAL AND COMPUTER ENGINEERING

ECEN 5007	Power Electronics 3	Erickson	1-1:50	MWF
ECEN 5011	Biologically Engineered Control Systems	Wachtel	12:30-1:45	TR
ECEN 5028	Neural Network Design	Demuth	3:30-4:45	TR
ECEN 5503	Computer Systems Design and Architecture	Heuring	1-1:50	MWF
ECEN 5553	Parallel Processing	Jordan	11-12:15	MW
ECEN 5645	Introduction to Optical Electronics	Barnes	9-9:50	MWF

### ENGINEERING MANAGEMENT

EMEN 5010	Introduction to Engineering Management	Daughton	2-4:30	M
EMEN 5032	Advanced Topics in Project Management	Patzak	5-7:30	TR
EMEN 5040	Quality, Strategy and Value Creation	Hensler	2-4:30	W
EMEN 5400	Product Management	Kirschling	5-7:30	R
EMEN 5600	Survey of Operations Research	Lawrence	3:30-4:45	MW

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

## MECHANICAL ENGINEERING

MCEN 5066	World Class Manufacturing	Nikmanesh	5-7:30	M
MCEN 5636	Microelectromechanical Systems	Bright	9:30-10:45	TR

## TELECOMMUNICATIONS

TLEN 5120	Telecommunications Policy: Historical Perspectives	Johnson	2-3:15	MW
TLEN 5130	Strategic Planning	Bardsley	11-12:15	TR
TLEN 5310	Telecommunications Systems <i>Recitation</i>	Mitchell	8-9:15 8-8:50	TR W
TLEN 5330	Data Communications 1 <i>Recitation</i>	Gates	8-9:15 8-8:50	TR W
TLEN 5340	Digital Telecommunications Networks	Thompson	5:30-8	M
TLEN 5400	Traffic and Queuing Theory	Mitchell	9:30-10:45	TR
TLEN 5430	Data Communications 2	Robertson	5:30-8	T
TLEN 5831	Telecommunications Management and Innovation	Lookabaugh	9-9:50	MWF
TLEN 5835	Economics/Policy/Management Aspects of Telecommunications	Bardsley	2-3:15	TR
TLEN 5838	Internet Economics <i>Recitation</i>	Savage	10:30-11:45 10:30-11:45	MW F

## WEB COURSES IN TELECOMMUNICATIONS

TLEN 5130W	Strategic Planning	Bardsley		
TLEN 5310W	Telecommunications Systems	Mitchell		
TLEN 5600W	Telecommunications Seminar	Hatfield		
TLEN 5700W	Telecommunications Capstone Seminar	Brown	Single session only, Friday, January 18, 8-8:50	
TLEN 5835W	Economics/Policy/Management Aspects of Telecommunications	Bardsley		
TLEN 5838W	Internet Economics	Savage		

## HOW TO REGISTER FOR CATECS COURSES

Registration for Spring 2002 Courses: December 1-31, 2001  
Late Registration: January 1-18, 2002

1. Complete the *Spring 2002 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 Book Store about three weeks prior to the first class to verify the correct text(s) and place your order: 800-255-9168 or 303-492-3444 or online at [cubooks.colorado.edu](http://cubooks.colorado.edu)
5. Tuition for all CATECS courses is \$1,200 per 3-credit course



## ADDITIONAL CREDIT PROGRAMS

### ACCESS PROGRAM

Want to take a credit course at CU-Boulder during the day? Perhaps you're interested in a particular class for personal or professional development or plan to enroll in a degree program in the future. Each Fall and Spring, the ACCESS (Available Credit Courses for Eligible Special Students) program enables nondegree students to enroll in Boulder main campus undergraduate or graduate courses after most degree-seeking students have registered.



Registration for Spring semester begins Friday, January 11 and classes begin Monday, January 14. 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 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/hsconcur.htm](http://www.colorado.edu/conted/hsconcur.htm)



### SUMMER SESSION

#### Are you thinking ahead to Summer 2002? Consider Summer Session at CU-Boulder.

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

Many students appreciate the opportunity to focus on math, biology, chemistry or physics during the summer. Have you always wanted to take a drawing, painting or art history class? Summer is the time. Interested in business, journalism, engineering or music classes? Check out the summer 2002 offerings. Enjoy Boulder in the summer and take advantage of more than 500 classes.

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



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



"Sculpting is my dream.  
My journey on the planet."

*Barbara Cox*  
*Basic Sculpture*  
*Sculpture: Stonecarving*

*personal*



## PERSONAL ENRICHMENT

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

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

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

### Foreign Language Classes

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

### Fine Arts Classes

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

### Proof of Completion

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

### Scholarships

Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. December 4 is the spring application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at [www.colorado.edu/scholar.htm](http://www.colorado.edu/scholar.htm).

### 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.

Barbara Cox's enthusiasm for working with stone is contagious. She loves sculpting because it relates so directly to our lives. "The planet consists of forms and shapes – sculpture is everywhere around us. Sculpting is fascinating because you can walk around it, touch it and work with the third dimension." Sculpting is also very healing and meditative, from the rhythmical, musical beat of the hammer and chisel to "listening" to the rock to see what it will inspire. "It's like a dance, but you keep your feet on the ground."

33

**FINE ARTS**

Introduction to Drawing  
 Figure Drawing  
 Water Media  
 Introduction to Oil Painting  
 Intermediate Oil Painting  
 Basic Sculpture  
 Sculpture: Stonecarving  
 Fearless Basic Photography  
 Creative Photography Workshop

34

**FOREIGN LANGUAGES**

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

36

**LIFESTYLES**

Managing Stress in a Changing World

36

**THEATRE**

Acting Basics  
 Shakespeare: Page to Stage

37

**WRITING**

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

# PERSONAL ENRICHMENT

## FINE ARTS

### Introduction to Drawing NCFA 020

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

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

Section 500: Tuesdays, January 29-March 19, 6:30-8:30 p.m. Fine Arts C153. 8 sessions. \$170.

### Figure Drawing NCFA 005

This course explores the fundamentals of drawing the human figure. The activities are divided into eight learning units. The beginning of the course explores various tools and mark making within the realm of black and white. Students will add to their experimentation by including tools of color and applications such as color schemes, mood, effects on shading, and perspective. We will discuss all aspects of creating a successful composition throughout the course. Call 303-492-5148 for a supply list.

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

Section 500: Wednesdays, January 30-March 20, 6:30-8:30 p.m. Fine Arts C153. 8 sessions. \$170.

Additional fine arts courses are available through the Boulder Evening program, page 11.

Philip Collins looks forward to his Continuing Education class, *Managing Stress in a Changing World*, for a number of reasons, but the biggest is the variety of students in the classroom. "The mix of younger and older students and the exchange of ideas makes it enjoyable. It's a great atmosphere and fun to be a part of." So much fun, in fact, that Philip plans to continue taking courses in CU's Continuing Education program for a long time.

### 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. Call 303-492-5148 for a supply list.

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

Section 500: Mondays, January 28-March 18, 6:30-8:30 p.m. Fine Arts C153. 8 sessions. \$170.

### 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 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. Call 303-492-5148 for a supply list. Please bring all materials to the first class meeting. No previous painting experience is necessary.

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

Section 500: Tuesdays, January 29-March 19, 6:30-8:30 p.m. Fine Arts N103. 8 sessions. \$170.

### Intermediate Oil Painting NCFA 036

In this hands-on painting course, students will build on their understanding of fundamental color theory and basic oil painting materials and methods, choosing their own subject matter and exploring their own sensibilities. It is recommended that students have taken a beginning oil painting course as a prerequisite for this course. Call 303-492-5148 for a supply list.

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

Section 500: Tuesdays, April 2-May 7, 6:30-8:30 p.m. Fine Arts N103. 6 sessions. \$130.

### 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. Call 303-492-5148 for a supply list.

*Barbara Cox, M.A., is a local sculptor and instructor who received her training in Austria, the Fine Arts Academy in Munich, and at CU-Boulder. She has taught art classes since 1975.*

Section 500: Wednesdays, January 30-March 20, 6:30-8:30 p.m. Fine Arts C102. 8 sessions. \$170.



## PERSONAL ENRICHMENT

*(Fine Arts continued)***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 is included. Call 303-492-5148 for a supply list.

*Barbara Cox, M.A., is a local sculptor and instructor who received her training in Austria, the Fine Arts Academy in Munich, and at CU-Boulder. She has taught art classes since 1975.*

Section 500: Mondays, January 28-March 18, 6:30-8:30 p.m. Fine Arts C102. 8 sessions. \$170.

**Fearless Basic Photography  
NCFA 001**

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

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

Section 500: Tuesdays, January 29-March 19, 6:30-8:30 p.m. McKenna 112. 8 sessions. \$160.



When Nan Stevens and her husband Gary chose courses from CU's Continuing Education catalog, it was to prepare for a new and exciting venture: the couple are joining the Peace Corps. They've already taken a language class, and now they're taking Managing Stress in a Changing World. "We're taking this class because stress is everywhere, change is everywhere, and retiring and joining the Peace Corps is as big a change as you can make."

**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 500: Thursdays, February 7-April 4, 7:30-9:30 p.m. Economics 2. 9 sessions. \$205.

## 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 500: Thursdays, January 31-March 21, 6:30-8:30 p.m. Hellems 181. 8 sessions. \$170.

**Chinese: Conversational  
and Written Skills for  
Advanced Beginners  
NCFL 208**

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

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

Section 500: Wednesdays, January 30-March 20, 6:30-8:30 p.m. Hellems 181. 8 sessions. \$170.

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

*Nadia Turk, Ph.D., has taught French and Arabic at CU-Boulder since 1982.*

Section 500: Tuesdays, January 29-April 9 (no class March 26), 6:30-8:30 p.m. Hellems 181. 10 sessions. \$210.

### French: Conversational Skills for Advanced Beginners

#### NCFL 200

Students should be able to use the present tense before taking this class. Increased vocabulary and speaking skills are stressed. Textbook, *Parlon Francois II*, available at the CU Bookstore.

*Nadia Turk, Ph.D., has taught French and Arabic at CU-Boulder since 1982.*

Section 500: Thursdays, January 31–April 11 (no class March 28), 6:30–8:30 p.m. Hellems 193. 10 sessions. \$210.

### 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.

*Patricia Marchesi, M.A. in German from CU-Boulder, teaches 1st and 2nd year German courses on the Boulder campus.*

Section 500: Thursdays, January 31–March 21, 6–8 p.m. Hellems 237. 8 sessions. \$170.

### 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.

*Tina Pugliese, M.A. in Foreign Languages and Cinema Study from the University of Rome, Italy, has taught film study in Rome, along with Italian classes to non-Italian students in private schools there. Tina teaches all levels of Italian at CU.*

Section 501: Mondays, January 28–March 18, 6–8 p.m. Hellems 251. 8 sessions. \$170.

Section 502: Tuesdays and Thursdays, January 29–February 21, 6–8 p.m. Hale 240. 8 sessions. \$170.

### 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*, is available at the CU Bookstore.

*Tina Pugliese, M.A. in Foreign Languages and Cinema Study from the University of Rome, Italy, has taught film study in Rome, along with Italian classes to non-Italian students in private schools there. Tina teaches all levels of Italian at CU.*

Section 500: Tuesdays, February 26–April 23, 6–8 p.m. Ketchum 119. 8 sessions. \$170.

### Japanese: Beginning Conversational and Written Skills

#### NCFL 104

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

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

Section 500: Mondays and Wednesdays, January 28–February 20, 6–8 p.m. Humanities 370. 8 sessions. \$170.

### Japanese: Conversational and Written Skills for Advanced Beginners

#### NCFL 204

This second-level course continues the development of oral and written skills. The course is designed for students with an introductory knowledge of Japanese learned from a year or more of high school Japanese, a semester or more of college, or extensive travel in Japan.

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

Section 500: Mondays and Wednesdays, February 25–March 20, 6–8 p.m. Humanities 370. 8 sessions. \$170.

### 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.

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

Section 501: Mondays and Wednesdays, January 28–February 20, 6:30–8:30 p.m. Hellems 193. 8 sessions. \$170.

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

Section 502: Tuesdays, January 29–March 19, 7–9 p.m. Hellems 193. 8 sessions. \$170.

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

Section 503: Wednesdays, January 30–March 20, 6:30–8:30 p.m. Hellems 251. 8 sessions. \$170.

## PERSONAL ENRICHMENT

*(Foreign Languages continued)***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. Since 1994, Itza has taught Spanish in the U.S. to students of all ages and has taught college level courses at Western Michigan University and at CU.*

Section 501: Tuesdays, January 29-March 19, 6:30-8:30 p.m. Ketchum 118. 8 sessions. \$170.

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

Section 502: Mondays and Wednesdays, February 25-March 20, 6:30-8:30 p.m. Hellems 193. 8 sessions. \$170.

**Spanish: Intermediate Conversational Skills**

NCFL 303

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

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

Section 500: Thursdays, January 31-March 21, 7-9 p.m. Hellems 259. 8 sessions. \$170.

Additional language courses are available through the Boulder Evening program, pages 8, 12, 16 and 17.

## LIFESTYLES

**Managing Stress in a Changing World**

NC L 009

In the ever-changing world we live in, stress and change are now considered one and the same. Experts agree that change is only going to increase, so how are your coping skills?

This course is designed to expose you to a sound holistic (mind-body-spirit) approach to stress management. Topics include the nature of stress, physiology of stress, stress and disease, the stress emotions, and stress and human spirituality. You will be introduced to excellent coping skills and relaxation techniques to not only reduce and alleviate the physical symptoms of stress, but learn to thrive in changing times and restore a sense of inner peace.

*Brian Luke Seaward, Ph.D. in health wellness from the University of Maryland, is a nationally recognized expert in the field of stress management, stress and spirituality, and mind-body-spirit healing. He regularly teaches a Kinesiology course for Continuing Education's Boulder Evening program. Luke has published several books including the popular best sellers Managing Stress, Stand Like Mountain, Flow Like Water, Stressed Is Desserts Spelled Backward, and Health of the Human Spirit.*

Section 500: Saturdays, March 2 and 16, 9 a.m.-4 p.m. Continuing Education Center, 1505 University Avenue, Room 140. 2 sessions. \$120.

## 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 from CU-Boulder, teaches for the Honors Department on campus. She has written and performed numerous original works in the Boulder/Denver area. Beth is working on a book on theatre throughout the world and recently completed research in Southeast Asia.*

Section 500: Mondays, January 28-March 18, 6:30-8:30 p.m. Economics 2. 8 sessions. \$160.

**Shakespeare: Page to Stage**

NCTH 005

Get a sneak preview of the 2002 Colorado Shakespeare Festival! Drawing on the plays that will be produced in the 2002 season, this course will focus on the creative process of moving a classical play from the page to the stage. Participants will examine *Macbeth*, *Richard III* and *A Midsummer Night's Dream*, both literature and theatre, exploring how key elements in the text are translated in performance. You will also have an opportunity to meet with actors and artistic staff of the Colorado Shakespeare Festival for an informal discussion of the artistry involved in making a classical play come alive for contemporary audiences.

*Heather A. Smith, M.A. in Theatre Arts from Villanova University, has worked for the Colorado Shakespeare Festival in various capacities over the past two years, ranging from dramaturgy and assistant direction to audience services. She is currently pursuing a Ph.D in theatre at CU.*

Section 500: Wednesdays, February 20-March 20, 7-9 p.m. Clare Small 211. 5 sessions. \$100.

## WRITING

### Creative Writing NC W 006

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

*Naomi Rachel, M.A. English Literature and M.F.A. Creative Writing, is a professional writer with over 300 publications in regional and national publications.*

Section 500: Wednesdays, January 30-March 20, 7-9 p.m. Hellems 263.  
8 sessions. \$160.

### Creative Writing Workshop NC W 106

Students who have already taken Creative Writing classes, or who have been writing on their own, will be able to workshop (analyze their work) in a supportive atmosphere. The topics covered and the imaginative assignments will relate to the work that the students are doing. We will also have assigned readings relating to the issues brought up in the workshop. Emphasis will be on improving the work, and exploring ways to develop your individual voice.

*Naomi Rachel, M.A. English Literature and M.F.A. Creative Writing, is a professional writer with over 300 publications in regional and national publications.*

Section 500: Thursdays, January 31-March 21, 7-9 p.m. Hellems 271. 8 sessions. \$160.

### Poetry Workshop NC W 042

This class will provide you with a potpourri of inspirations and occasions for writing poetry, from sensory triggers and experimentation with forms to the exploration of memory and everyday experience. We will pay particular attention to the development of image and metaphor. We will spend part of our time writing and then share what we have written. We will also workshop what class members have written outside of class. This class will make you a part of the circulation of ideas for and about poetry and most of all, you will renew your commitment to writing!

*Sally Green, M.A. in creative writing from CU-Boulder, is a published poet.*

Section 500: Mondays, January 28-March 18, 6:30-8:30 p.m. Hellems 177.  
8 sessions. \$160.

### 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. For the first 3 weeks students will explore various topics through lecture, discussion, and in-class writing exercises. The rest of the course will follow 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' Workshop, has recently published a collection of short stories, A Night at the Y.*

Section 500: Tuesdays, January 29-March 12, 6:30-8:30 p.m. Hellems 263.  
7 sessions. \$140.

### 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, picture layouts, self-publishing and submitting manuscripts to publishing companies. We'll take an in depth look at how straightforward and profitable it is to self-publish your own work. Feel free to bring your own art or writing for instructor support and advice. Don't be shy! This will be a fun and safe place to share your work.

*Kerry MacLean, B.A., has written, illustrated and self-published five children's books, including the award-winning Pigs Over Boulder.*

Section 500: Saturday, March 9, 9 a.m.-4 p.m. Continuing Education Center, 1505 University Avenue, Room 140.  
1 session. \$100.

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

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

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

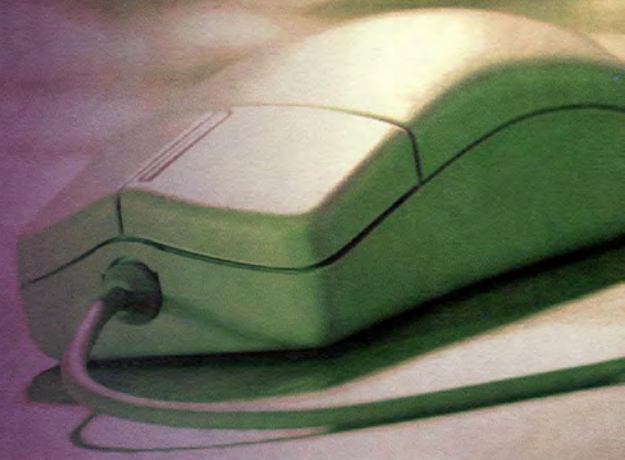
Section 500: Tuesdays, January 29-March 5, 6:30-8:30 p.m. Hale 236. 6 sessions. \$120.



Gary Stevens and his wife Nan are taking Managing Stress in a Changing World to help ease the transition from lifelong careers to joining the Peace Corps. Like many, they were drawn to CU's Continuing Education program because of the high quality of classes and, in this case, the immediate relevance of a course to their lives.

"I'm an engineer and I like designing.  
When I build and design a web page  
I get to see instant results."

*Jeff Braunstein*  
*Dreamweaver 4*  
*ColdFusion 5*



*computer*



# COMPUTER APPLICATIONS

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

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

## GENERAL INFORMATION

### Prerequisites

Required prerequisites are listed at the end of each course description. **The prerequisite(s) must be completed before you attend the course.** Equivalent experience and/or course(s) from another institution may be accepted in place of the prerequisite(s). If you are unsure you have the necessary background to satisfy the prerequisite requirement, please call 303-492-6596.

### Grading Policy

Even though none of the computer applications courses apply to any degree program, many students take these courses in hopes of completing one of four computer applications certificates. Therefore, all computer applications courses are graded. The first level is the full assessment level, which is mandatory for anyone seeking to complete one of the computer certificate programs. We also recommend this level to all students wanting to get the most out of their course. Students in the first level receive a satisfactory (S) or unsatisfactory (U) mark. Attendance, quizzes, and/or homework assignments determine a satisfactory or unsatisfactory assessment. The second level of grading is for students not wanting to be assessed at all. These students must request to receive a no credit (NC) mark.

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

### Textbooks

Certain courses require or recommend textbooks. This will be indicated in the course descriptions. All textbooks are available at the University Book Store in the University Memorial Center (UMC), room number 10 (unless otherwise specified), or visit their web site at [cubooks.colorado.edu](http://cubooks.colorado.edu).

Creating web sites has many components, and in Jeff Braunstein's Dreamweaver class, you not only learn about the Dreamweaver program, you learn about web design in general. "I want my students to be able to use the software, and also to gain a better understanding of the Web." Jeff likes the instant gratification that building a web page offers, and hopes his students will experience it too. He also enjoys the moment when his students "get it."

### Enrollment Limits

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

### Classroom Locations

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

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

Refer to the map on page 65 for other course locations.

### Drop Deadlines and Refund Policy

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

### Course Cancellations

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


### Faculty/Staff Discounts

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

### Scholarships

Students who are 25 years of age or older may be eligible for the Nontraditional Student Scholarship for Continuing Education courses. December 4 is the application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at [www.colorado.edu/conted/scholar.htm](http://www.colorado.edu/conted/scholar.htm)

### Notes

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

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

Visit our web site at [www.colorado.edu/conted/computer.htm](http://www.colorado.edu/conted/computer.htm).

## CERTIFICATE PROGRAMS

We are proud to present our newest certificate program in Web Graphics. This certificate is created to give students a solid background of layout and design fundamentals and to develop a strong understanding of interface design. Students will also learn to manipulate graphics for use on the Web in multiple formats. This is a great opportunity for students to start their portfolio!

We also offer certificate programs in Network Administration, Web Site Design and Programming. These certificates are designed for beginners, as well as those with intermediate skills in these fields. The courses required for each certificate offer a mix of in-depth theoretical knowledge and real-world experience. Upon completion of the certificate, you should have a good understanding of the basic skills and concepts in the specific field you have chosen. **The certificates are not designed to be completed within one semester, but must be completed within three years.**

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

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

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

NEW!

## CERTIFICATE IN WEB GRAPHICS

This certificate is designed to give you a solid background of layout and design fundamentals and to develop a strong understanding of interface design. You will also learn to manipulate graphics for use on the Web in multiple formats. This is a great opportunity for you to start your portfolio!

For this certificate, you must complete the seven core courses, two electives and the capstone Web Graphics Project course.

### A. Core Courses (all courses required)

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

### B. Electives (choose two)

- CAGR 3321 Director Shockwave Studio
- CAGR 3211 Illustrator Level II
- CAGR 3421 Multimedia Solutions
- CAWB 2411 Web Site Design with FrontPage
- CAWB 3511 Advanced Motion Graphics Using Flash

### C. Capstone Course

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

CAGR 9001 Web Graphics Project

## CERTIFICATE IN NETWORK ADMINISTRATION

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

### A. Choose One of the Following Tracks

1. Windows/Intel Track (both courses in this track are required)
  - CANW 1001 Introduction to Networks
  - CANW 5101 Network Administration
2. UNIX Track (both courses in this track are required)
  - CANW 2301 Introduction to UNIX
  - CANW 3301 Intermediate UNIX

### B. Operating Systems (both courses are required)

- CANW 3101 Computer Architecture
- CANW 4101 Network Operating Systems

### C. Required Wide Area Network Course

- CANW 5401 Wide Area Networking Topics

### D. One Administration Course (choose one):

- CANW 2211 Introduction to Windows 2000 Administration
- CANW 3211 Intermediate Windows 2000 Administration
- CANW 5301 UNIX System Administration

### E. Programming Course (choose one)

See page 54 for course listings

### F. Database Course (choose one)

- CAAP 2421 Access 2000 (9.0) Level I
- CAAP 3421 Access 2000 (9.0) Level II
- CAAP 4501 Database Design Concepts
- CAAP 4502 Relational Database Concepts and SQL Programming

## CERTIFICATE IN WEB SITE DESIGN

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

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

### A. Required Core Courses

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

- 1st – CAWB 2101 Internet Applications
- 2nd – CAWB 2301 Introduction to HTML
- 3rd – CAWB 3301 Intermediate HTML
- 4th – CAWB 4301 Advanced HTML
- 5th – CAWB 2701 Introduction to JavaScript

## B. Other Required Core Course

CAWB 3101 Design Techniques for Web Sites

## C. Required Multimedia Elective (choose one)

CAGR 3321 Director Shockwave Studio

CAGR 3421 Multimedia Solutions

CAWB 2611 Dreamweaver\*

CAWB 2511 Motion Graphics Using Flash\*

CAWB 3511 Advanced Motion Graphics Using Flash\*

\* *Note: CAWB 2611, CAWB 2511 and CAWB 3511 cannot be used to fulfill the Multimedia Elective if you are already taking one of these courses to fulfill the Web Course Elective.*

## D. Required Graphics Elective (choose one)

CAGR 2111/2121 Introduction to Photoshop

CAGR 3111/3121 Photoshop for the Web

CAGR 2211/2221 Illustrator Level I

CAGR 3211/3221 Illustrator Level II

## E. Web Course Elective (choose one)

CAWB 2102 Doing Business on the Internet

CAWB 5311 Hypertext Mark-up Language Version 4

CAWB 2411 Web Site Design with FrontPage

CAWB 3701 JavaScript Language

CAWB 2811 ColdFusion

CAWB 2611 Dreamweaver\*

CAWB 2511 Motion Graphics Using Flash\*

CAWB 3511 Advanced Motion Graphics Using Flash\*

\* *Note: CAWB 2611, CAWB 2511 and CAWB 3511 cannot be used to fulfill the Web Course Elective if you are already taking one of these courses to fulfill the Multimedia Elective.*

## F. Required Capstone Course

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

CAWB 9001 Web Site Design Project

## CERTIFICATE IN PROGRAMMING

For this certificate, you must complete the required introductory courses in Option 1 or 2, the required courses in one of the two tracks (C++ or Java) and one elective Topics course. **Please note that the Introductory Course requirements changed effective Fall 2001. If you started on the programming certificate prior to Fall 2001, you may complete it under the old or new requirements.**

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

## A. Required Introductory Courses

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

CAPR 1001 Introduction to Programming I

(formerly CACS 240 Introduction to Programming)

CAPR 2101 Introduction to Programming II  
(formerly CACS 241 Introduction to Hands-on C++)

CAPR 3101 Introduction to Programming III  
(formerly CACS 341 Intermediate Hands-on C++)

CAPR 3201 Intermediate Application Programming

CAPR 3202 Algorithm Design

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

CAPR 2201 Introduction to Application Programming

CAPR 3201 Intermediate Application Programming

CAPR 3202 Algorithm Design

## B. Choose One of Two Tracks

1. C++ Track (all courses required)

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

CAPR 4101 Intermediate/Advanced C++ Programming

CAPR 5401 Object-Oriented Design Patterns

CAPR 5402 Object-Oriented Analysis and Design

2. Java Track (all courses required)

CAPR 2601 Introduction to Object-Oriented Programming Using Java

CAPR 3601 Java for Object-Oriented Experienced Programmers

CAPR 4601 Advanced Java Programming Language Topics

CAPR 4602 Advanced Java Library

One Java Topics Course

One Design Topics Course

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

## Topics Courses

### Java Topics

CAPR 4603 Enterprise Java Beans (EJB) Overview

CAPR 5601 GUI Programming in Java

CAPR 5602 Developing Web Applications in Java

CAPR 5603 Java Servlets

CAPR 5604 Network-Embedded Java Programming

CAPR 5605 Java Internationalization

### Design Topics

CAPR 5401 Object-Oriented Design Patterns

CAPR 5402 Object-Oriented Analysis and Design

### Visual Basic Topics

CAPR 2301 Introduction to Hands-on Visual Basic Programming

CAPR 3301 Intermediate Hands-on Visual Basic Programming

### Perl Topics

CAPR 2701 Introduction to Perl for Programmers

CAPR 3301 Perl for Web Application Programming

### Database Design Topics

CAAP 4501 Database Design Concepts

CAAP 4502 Relational Database Concepts and SQL Programming

### Other Topics

CAPR 3701 Extensible Markup Language (XML)

CAPR 5501 Introduction to Software Project Management

# COURSE GUIDE

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
<b>Computer Applications...Course descriptions begin on page 45</b>					
Windows 98	CAAP 2121-500	01/22/02	01/29/02	9 a.m.-2:30 p.m.	2
Windows 2000	CAAP 2131-500	01/24/02	01/31/02	9 a.m.-2:30 p.m.	2
Word 2000 (9.0) Level I	CAAP 2221-500	02/04/02	02/07/02	9 a.m.-2:30 p.m.	2
Excel 2000 (9.0) Level I	CAAP 2321-500	01/28/02	01/28/02	9 a.m.-4 p.m.	1
Excel 2000 (9.0) Level II	CAAP 3321-500	02/11/02	02/11/02	9 a.m.-4 p.m.	1
Access 2000 (9.0) Level I	CAAP 2421-500	02/05/02	02/12/02	9 a.m.-4 p.m.	2
Access 2000 (9.0) Level II	CAAP 3421-500	02/19/02	02/19/02	9 a.m.-4 p.m.	1
Database Design Concepts	CAAP 4501-500	02/20/02	02/27/02	9 a.m.-4 p.m.	2
Relational Database Concepts and SQL Programming	CAAP 4502-500	02/19/02	03/19/02	6-8 p.m.	9
<b>Networking...Course descriptions begin on page 47</b>					
Introduction to Networks	CANW 1001-500	01/22/02	02/12/02	6-9 p.m.	4
Computer Systems Overview	CANW 2101-500	01/23/02	02/13/02	6-9 p.m.	4
Computer Architecture	CANW 3101-500	02/18/02	03/11/02	6-9 p.m.	4
Computer Operating Systems	CANW 3102-500	02/20/02	03/13/02	6-9 p.m.	4
Network Operating Systems	CANW 4101-500	04/02/02	04/23/02	6-9 p.m.	4
Network Administration	CANW 5101-500	03/12/02	03/21/02	6-9 p.m.	4
Wide Area Networking Topics	CANW 5401-500	04/24/02	05/08/02	6-9 p.m.	3
Introduction to Windows 2000 Administration (skip 3/25)	CANW 2211-500	03/11/02	04/08/02	6-9 p.m.	4
Intermediate Windows 2000 Administration	CANW 3211-500	04/15/02	05/06/02	6-9 p.m.	4
UNIX Survival Skills	CANW 1301-500	01/28/02	02/25/02	6-9 p.m.	5
Introduction to UNIX	CANW 2301-500	01/22/02	02/12/02	6-9 p.m.	7
Intermediate UNIX	CANW 3301-500	02/19/02	03/05/02	6-9 p.m.	5
UNIX System Administration (skip 3/25)	CANW 5301-500	03/11/02	04/15/02	6-9 p.m.	5
<b>Web...Course descriptions begin on page 49</b>					
Internet Fundamentals	CAWB 1001-500	01/23/02	01/30/02	6-9 p.m.	2
Internet Applications	CAWB 2101-501	01/24/02	02/07/02	6-9 p.m.	3
Internet Applications	CAWB 2101-502	01/29/02	02/12/02	6-9 p.m.	3
Internet Applications	CAWB 2101-503	03/04/02	03/18/02	6-9 p.m.	3
Design Techniques for Web Sites	CAWB 3101-501	01/22/02	01/29/02	6-9 p.m.	2
Design Techniques for Web Sites	CAWB 3101-502	02/05/02	02/12/02	6-9 p.m.	2
Design Techniques for Web Sites	CAWB 3101-503	03/07/02	03/14/02	6-9 p.m.	2
Design Techniques for Web Sites	CAWB 3101-504	04/22/02	04/29/02	6-9 p.m.	2
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-501	01/26/02	02/16/02	9 a.m.-12 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-502	01/28/02	02/18/02	6-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-503	02/21/02	03/14/02	6-9 p.m.	4
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-501	01/24/02	02/07/02	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-502	02/23/02	03/09/02	9 a.m.-12 p.m.	3
Intermediate Hypertext Mark-up Language (HTML) (skip 3/28)	CAWB 3301-503	03/21/02	04/11/02	6-9 p.m.	3
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-501	01/26/02	02/16/02	2-5 p.m.	4
Advanced Hypertext Mark-up Language (HTML) (skip 3/25)	CAWB 4301-502	03/04/02	04/01/02	6-9 p.m.	4

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-503	04/16/02	05/07/02	6-9 p.m.	4
Hypertext Mark-up Language Version 4	CAWB 5311-500	02/21/02	02/21/02	9 a.m.-4 p.m.	1
Introduction to JavaScript	CAWB 2701-501	02/19/02	03/12/02	6-9 p.m.	4
Introduction to JavaScript (skip 3/27)	CAWB 2701-502	03/06/02	04/03/02	6-9 p.m.	4
Introduction to JavaScript	CAWB 2701-503	04/17/02	05/08/02	6-9 p.m.	4
JavaScript Language	CAWB 3701-501	01/26/02	03/02/02	9 a.m.-12 p.m.	6
JavaScript Language	CAWB 3701-502	04/01/02	05/06/02	6-9 p.m.	6
Web Site Design with FrontPage 2002 (skip 3/25)	CAWB 2411-500	03/04/02	04/01/02	9 a.m.-12 p.m.	4
Motion Graphics Using Flash 5	CAWB 2511-501	02/02/02	02/23/02	9 a.m.-12 p.m.	4
Motion Graphics Using Flash 5	CAWB 2511-502	04/03/02	04/24/02	6-9 p.m.	4
Advanced Motion Graphics Using Flash 5	CAWB 3511-500	04/06/02	05/04/02	9 a.m.-12 p.m.	5
Dreamweaver 4	CAWB 2611-501	02/02/02	02/23/02	2-5 p.m.	4
Dreamweaver 4	CAWB 2611-502	04/03/02	04/24/02	6-9 p.m.	4
Dreamweaver 4	CAWB 2611-503	04/06/02	04/27/02	2-5 p.m.	4
ColdFusion 5	CAWB 2811-500	02/06/02	03/13/02	6-9 p.m.	6
Web Site Design Project	CAWB 9001-501	02/19/02	03/19/02	6-9 p.m.	5
Web Site Design Project	CAWB 9001-502	04/11/02	05/09/02	6-9 p.m.	5

#### Graphics...Course descriptions begin on page 52

Computer Art	CAGR 1011-500	02/04/02	02/04/02	9 a.m.-4 p.m.	1
Computer Art	CAGR 1021-500	01/23/02	01/30/02	6-9 p.m.	2
Introduction to Graphic Design	CAGR 1121-500	01/26/02	01/26/02	9 a.m.-5 p.m.	1
Introduction to Photoshop (6.0)	CAGR 2111-501	01/26/02	02/02/02	9 a.m.-4 p.m.	2
Introduction to Photoshop (6.0)	CAGR 2111-502	02/18/02	02/25/02	9 a.m.-4 p.m.	2
Introduction to Photoshop (6.0)	CAGR 2111-503	03/09/02	03/16/02	9 a.m.-4 p.m.	2
Introduction to Photoshop (6.0)	CAGR 2121-501	01/28/02	02/07/02	6-9 p.m.	4
Introduction to Photoshop (6.0)	CAGR 2121-502	02/12/02	03/05/02	6-9 p.m.	4
Introduction to Photoshop (6.0)	CAGR 2121-503	04/03/02	04/24/02	6-9 p.m.	4
Photoshop for the Web (6.0)	CAGR 3111-501	02/09/02	02/16/02	9 a.m.-4 p.m.	2
Photoshop for the Web (6.0)	CAGR 3111-502	03/13/02	03/20/02	9 a.m.-4 p.m.	2
Photoshop for the Web (6.0)	CAGR 3111-503	04/06/02	04/13/02	9 a.m.-4 p.m.	2
Photoshop for the Web (6.0)	CAGR 3121-501	02/11/02	03/04/02	6-9 p.m.	4
Photoshop for the Web (6.0)	CAGR 3121-502	04/02/02	04/23/02	6-9 p.m.	4
Illustrator (9.0) Level I	CAGR 2211-501	01/23/02	01/30/02	9 a.m.-4 p.m.	2
Illustrator (9.0) Level I	CAGR 2211-502	04/08/02	04/15/02	9 a.m.-4 p.m.	2
Illustrator (9.0) Level I	CAGR 2221-501	02/16/02	02/23/02	9 a.m.-4 p.m.	2
Illustrator (9.0) Level I	CAGR 2221-502	03/09/02	03/16/02	9 a.m.-4 p.m.	2
Illustrator (9.0) Level II	CAGR 3211-501	03/11/02	03/18/02	9 a.m.-4 p.m.	2
Illustrator (9.0) Level II	CAGR 3211-502	04/18/02	05/09/02	6-9 p.m.	4
Illustrator (9.0) Level II	CAGR 3221-500	04/20/02	04/27/02	9 a.m.-4 p.m.	2
Director 8 Shockwave Studio	CAGR 3321-500	02/06/02	02/27/02	6-9 p.m.	4
Multimedia Solutions	CAGR 3421-500	02/28/02	03/21/02	6-9 p.m.	4

# COURSE GUIDE

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
<b>Programming...Course descriptions begin on page 54</b>					
Introduction to Programming I	CAPR 1001-501	01/23/02	02/12/02	9 a.m.-4 p.m.	4
Introduction to Programming I	CAPR 1001-502	01/24/02	02/11/02	6-9 p.m.	6
Introduction to Programming II (skip week of 3/10)	CAPR 2101-501	02/27/02	03/19/02	9 a.m.-4 p.m.	4
Introduction to Programming II (skip week of 3/10)	CAPR 2101-502	02/28/02	03/21/02	6-9 p.m.	6
Introduction to Programming III	CAPR 3101-500	04/20/02	05/04/02	9 a.m.-4 p.m.	3
Introduction to Application Programming (skip 2/14)	CAPR 2201-500	01/24/02	02/21/02	6-9 p.m.	8
Intermediate Application Programming	CAPR 3201-501	01/23/02	02/27/02	6-9 p.m.	6
Intermediate Application Programming (skip 3/26)	CAPR 3201-502	03/19/02	04/30/02	6-9 p.m.	6
Algorithm Design	CAPR 3202-500	01/22/02	03/12/02	6-9 p.m.	8
Introduction to Object-Oriented Programming in C++	CAPR 2102-500	01/22/02	02/26/02	6-9 p.m.	6
Intermediate/Advanced C++ Programming (skip 3/28)	CAPR 4101-500	03/07/02	05/02/02	6-9 p.m.	8
Introduction to Object-Oriented Programming Using Java	CAPR 2601-500	01/28/02	03/11/02	6-9 p.m.	7
Java for Object-Oriented Experienced Programmers (skip 3/27)	CAPR 3601-500	03/20/02	05/08/02	6-9 p.m.	7
Advanced Java Programming Language Topics	CAPR 4601-500	02/06/02	03/06/02	6-9 p.m.	5
Advanced Java Library Topics	CAPR 4602-500	04/01/02	04/29/02	6-9 p.m.	5
Enterprise Java Beans (EJB) Overview	CAPR 4603-500	03/02/02	03/09/02	9 a.m.-4 p.m.	2
GUI Programming in Java	CAPR 5601-500	01/28/02	03/11/02	6-9 p.m.	7
Developing Web Applications in Java	CAPR 5602-500	01/29/02	03/12/02	6-9 p.m.	7
Java Servlets	CAPR 5603-500	03/16/02	03/16/02	9 a.m.-4 p.m.	1
Network-Embedded Java Programming	CAPR 5604-500	02/16/02	02/23/02	9 a.m.-4 p.m.	2
Java Internationalization	CAPR 5605-500	02/09/02	02/09/02	9 a.m.-5 p.m.	1
Object-Oriented Design Patterns	CAPR 5401-500	04/06/02	04/06/02	9 a.m.-4 p.m.	1
Object-Oriented Analysis and Design	CAPR 5402-500	04/20/02	04/27/02	9 a.m.-5 p.m.	2
Introduction to Perl for Programmers	CAPR 2701-500	01/23/02	02/20/02	6-9 p.m.	5
Perl for Web Application Programming	CAPR 3702-500	04/04/02	05/02/02	6-9 p.m.	5
Extensible Markup Language (XML)	CAPR 3701-500	02/18/02	03/11/02	6-9 p.m.	4
Introduction to Hands-On Visual Basic Programming	CAPR 2301-500	01/28/02	02/25/02	6-9 p.m.	5
Intermediate Hands-On Visual Basic Programming	CAPR 3301-500	03/02/02	03/16/02	9 a.m.-4 p.m.	3
Introduction to Software Project Management	CAPR 5501-500	02/04/02	02/25/02	6-9 p.m.	4



Lindsay Dickinson recently graduated with a bachelor's degree in studio arts, and is getting a taste of graphic arts by taking the Continuing Education course Photoshop for Windows 6.0. This is her first semester in the Continuing Education program, and she's also taking a photography class and the follow-up Photoshop class. With such varied course offerings, CU's Continuing Education program allows students to sample a wide array of disciplines and acquire new skills.

# COMPUTER APPLICATIONS

## COMPUTER APPLICATIONS

### Windows 98 CAAP 2121

Increase your efficiency using Windows with lots of useful information, clever shortcuts and "tips 'n tricks". Learn to work with objects on the Desktop, built-in programs and accessories within the "Start" menu, the "Settings" option, and Windows Explorer. Work with Word and Excel to identify similarities between programs and toolbars. Also, find files, tile multiple windows, change window views, create shortcuts on the desktop, add/remove items to the Start Menu, and use of the right mouse button for all the handy shortcuts available in Windows. **Prerequisite: Fundamental knowledge of basic computer functions.**

*Lisa Kelly, B.A.*

Section 500: Tuesdays, January 22 and 29, 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). \$220.

### Windows 2000 CAAP 2131

From understanding where your files are to understanding the items on your screens, this course will teach you the important parts of working in the Windows environment. Know what the items on the desktop are and how to add and delete them. Sizing, shaping, viewing, and arranging your windows and icons will be covered. Navigate through the Windows file system by using My Computer, Windows Explorer and the Search command. Learn some basic editing techniques that are common to the programs that run under Windows and how to get into and out of programs, create new files, find your existing files, and save and print from most programs. Get comfortable with installing new software and peripherals using the Control Panel. You will create shortcuts to get quickly and painlessly to the things you use regularly. **Prerequisite: Fundamental knowledge of basic computer functions.**

*Issy Kilbride*

Section 500: Thursdays, January 24 and 31, 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). \$220.

### Word 2000 (9.0) Level I CAAP 2221

This course is designed for those who are new to Microsoft Word or who have been using it for a while but would like to know ways to make the program work more efficiently for them. Students will have a clear understanding of the MS Word methods and concepts when finished with this course. The students will learn how to turn the automatic features of Word on or off. All automatic formatting will be explained in detail. Students will learn in-depth character, paragraph, and document formatting techniques, keyboard shortcuts, tabs, indents, borders and shading, and more. Students will know how to make shortcuts for inserting often-used text and graphics. Printing options, print preview, and page setups are discussed. **Prerequisite: CAAP 2131 Windows 2000** or equivalent.

*Issy Kilbride*

Section 500: Monday and Thursday, February 4 and 7, 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). \$241.



# COMPUTER APPLICATIONS

(Computer Applications continued)

## Excel 2000 (9.0) Level I CAAP 2321

This course is designed for those who are new to Microsoft Excel or who have been using it for a while but would like to know ways to make the program work more efficiently for them. Students will have a clear understanding of how to use the MS Excel program when finished with this class. The students will learn how to create a new workbook—from the initial idea to a finished, well-formatted document. Emphasis is placed on formula creation and concepts, entry shortcuts, editing, and formatting. Printing options, print preview, and page setups are also discussed. **Prerequisite:** CAAP 2121 Windows 98, CAAP 2131 Windows 2000, or equivalent.

*Issy Kilbride*

Section 500: Monday, January 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). \$215.

## Excel 2000 (9.0) Level II CAAP 3321

In this course, students learn more about Excel's security, automation and modification features. This class covers the tools and techniques needed to extend Excel's capabilities beyond the simple single worksheet containing text, numbers and formulas. Study includes the automation of worksheet production through templates. Invaluable techniques such as linking formulas to data outside the current worksheet or workbook, locking out edits and changes to certain portions of the worksheet, copying and pasting; and linking Excel data to other Windows programs using OLE. A brief look at Excel's database capabilities as well as charting will be covered in this course. **Prerequisite:** CAAP 2321 Excel 2000 Level I or equivalent.

*Chris Mattson, B.S.*

Section 500: Monday, February 11, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$215.

## Access 2000 (9.0) Level I CAAP 2421

This two-day course covers everything you need to know to create and maintain your data using Access. The class first examines the creation and custom design of the data Table object followed by the Query object, which is used to extract and manipulate user defined specific sets of data from the tables. The student then learns how to create, design and customize Forms for efficient and convenient data display, entry and edits. Finally, the class examines the use of Reports for grouping and printing of data. When appropriate, the course covers other useful techniques such as importing/exporting data, relational theory and finding specific information using the help system. Along the way, the class also covers all of the shortcuts, tips and tricks, and dos and don'ts.

**Prerequisite:** CAAP 2121 Windows 98, CAAP 2131 Windows 2000, or equivalent.

*Chris Mattson, B.S.*

Section 500: Tuesdays, February 5 and 12, 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). \$280.

## Access 2000 (9.0) Level II CAAP 3421

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

**Prerequisite:** CAAP 2421 Access 2000 Level I or equivalent.

*Chris Mattson, B.S.*

Section 500: Tuesday, February 19, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$215.

## Database Design Concepts CAAP 4501

This course will present the database novice with the concepts of the relational database model. Discussion begins with demonstrations of the limits and complications of the common flat file list model and then expands to resolve these issues by way of "Normalizing" the flat file through the employment of "Normal Forms". The student will also learn the concepts of database integrity, table indexing, different types of table joins and when to use them, and then finishing with examples of cleaning up "text" tables for import and breaking flat file tables into multiple relational tables. This course paves the way for more advanced subject matter such as data collection methods and SQL programming. **Prerequisites:** CAAP 2421 Access 2000 Level I or equivalent and a good working knowledge of the Windows operating system. A basic understanding of Excel is recommended.

*Chris Mattson, B.S.*

Section 500: Wednesdays, February 20 and 27, 9 a.m.-4 p.m. 2 sessions. University Management Systems 001. \$300.



## Relational Database Concepts and SQL Programming

CAAP 4502

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:** CAAP 2421 Access 2000 Level I or previous experience with databases. **Required text:** *Oracle SQL Primer: Learning the Craft*, Komenda Publishing. This textbook is not available in the bookstore and will be handed out on the first day of class instead. Cost for the textbook (\$20) is included in the tuition.

*Instructor: TBA*

Section 500: Tuesdays and Thursdays, February 19-March 19, 6-8 p.m. 9 sessions. University Management Systems 001. \$340 (includes \$20 for textbook).

## NETWORKING

### Introduction to Networks

CANW 1001

Networked computer systems are becoming more and more prevalent in today's business environment. Making informed choices depends on understanding the basic concepts, grasping the "lingo" and accurately evaluating various configurations. This course also presents an overview of current network systems available on both DOS-based and Macintosh-based systems from small to medium-sized businesses. **Prerequisite:** CAAP 2121 Windows 98, CAAP 2131 Windows 2000, or equivalent.

*Nate Ahrens, B.A.*

Section 500: Tuesdays, January 22-February 12, 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). \$260.

### Computer Systems Overview

CANW 2101

This course offers students an extensive introduction of what they need to know to discuss and make informed decisions regarding computers. It presents the student with an overview of many of the system hardware and software components that make up the modern desktop computer, including CPU, memory, disks, file systems, displays, Bus I/O, printers, modems, networks and operating systems boot processes, applications and computer maintenance and backup/recovery. Students will acquire knowledge of relevant computer system terminology and are encouraged to participate in class discussions comparing and contrasting the relevance and differences of computer system hardware and software components. **Prerequisite:** CAAP 2121 Windows 98, CAAP 2131 Windows 2000, working knowledge of the Macintosh or equivalent.

*Chris Mattson, B.S.*

Section 500: Wednesday, January 23-February 13, 6-9 p.m. 4 sessions. University Computing Center 127. \$248.

## Computer Architecture

CANW 3101

This course introduces the fundamentals of computer architecture, providing an overview of the structure and operation of digital computers. It will describe how individual components such as CPU's memory, hard drives, video cards, network interface cards, and other peripherals interact with each other on various platforms. The class will explore several underlying technologies that are common to most computers, and especially to PC's. It will take a generic approach to describing how these systems work rather than examining the details of specific implementations. **Prerequisite:** CANW 2101 Computer Systems Overview or equivalent.

*Dave Bodnar, M.S.*

Section 500: Mondays, February 18-March 11, 6-9 p.m. 4 sessions. University Computing Center 123. \$248.

## Computer Operating Systems

CANW 3102

This lab-based technical course deals with the four major networking client workstations. You will first learn to install Windows Millennium Edition and Red Hat Linux 7.1 operating systems on Intel-based platforms (Macintosh OS 9.1 and UNIX SVR4 installs will be demonstrated). Then you will explore "How To" use common troubleshooting and performance utilities to maintain these workstations. This course can be utilized as part of your preparations to take the CompTIA exams for "A+" or "Linux+" Certification. **Prerequisite:** CANW 2101 Computer Systems Overview or equivalent.

*Marc Lafavor, B.S.*

Section 500: Wednesdays, February 20-March 13, 6-9 p.m. 4 sessions. University Computing Center 127. \$270.



*(Networking continued)***Network Operating Systems  
CANW 4101**

This lab-based technical course deals with the Linux and Windows server operating systems. You will learn to setup a Microsoft Peer-to-Peer Network and Apache Web Server on Red Hat Linux 7.1. The course compares and contrasts the components, functionality, and architecture of the Microsoft and UNIX/Linux Network Operating Systems (NOS), as well as the underlying operating system support for server functionality. This course can be utilized as part of your preparations to take the CompTIA exams for "Network+" or "Server+" Certification. **Prerequisite:** CANW 3102 **Computer Operating Systems** or equivalent. **Required text:** *Peter Norton's Complete Guide to Networking*, Kearns & Norton.

*Marc Lafavor, B.S.*

Section 500: Tuesdays, April 2-23, 6-9 p.m. 4 sessions. University Computing Center 127. \$270.

**Network Administration  
CANW 5101**

In this course, you will learn about network management skills, including setting up user groups and access privileges, maintaining security, backup strategies, as well as sharing printers and other network resources. You will also learn troubleshooting techniques and how to solve and prevent network problems. **Prerequisite:** CANW 4101 **Network Operating Systems** or equivalent.

*Shayn Smith, Ph.D., CNE*

Section 500: Tuesdays and Thursdays, March 12-21, 6-9 p.m. 4 sessions. University Computing Center 127. \$248.

**Wide Area Networking  
Topics**  
CANW 5401

In this lecture-based course you will view the Internet as one large Wide Area Network (WAN). Learn the various packet-switched technologies that make it work, such as PPP, ATM, xDSL, as well as older circuit-switched technologies. Transmission methods will also be covered, such as fiber optics and microwaves. Gain an understanding of the advantages and disadvantages of each technology. Case studies of real-world WAN topologies and the equipment (routers and switches) used to implement them will be examined. **Prerequisite:** CANW 4101 **Network Operating Systems** or equivalent.

*Paul Welding, B.S.*

Section 500: Wednesdays, April 24-May 8, 6-9 p.m. 3 sessions. University Computing Center 123. \$225.

**Introduction to Windows 2000  
Administration  
CANW 2211**

This is a technical hands-on course focusing on concepts necessary for migrating from Windows NT 4.0 to Windows 2000. You will learn Installation and configuration of Windows 2000 Professional and Server in a small office environment. Topics include planning, installation, networking, file sharing, printer sharing, file systems and disks. Also covered will be installation and configuration of several Windows 2000 services.

**Prerequisite:** CANW 4101 **Network Operating Systems** or equivalent. **Required text:** *Windows 2000 The Complete Reference*, Osborne/McGraw-Hill, Ivens and Gardinier.

*Bob Schmidt, M.A.*

Section 500: Mondays, March 11-April 8 (skip March 25), 6-9 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$440.

**Intermediate Windows 2000  
Administration  
CANW 3211**

Expand on the topics covered in the Introduction to Windows 2000 Administration course by learning what is required to adapt them to a larger scale multi-server environment using Active Directory, DNS and improved Domain architecture. Also, examine the Internet Information Server, Terminal Services, Remote Access Service, and other network services. **Prerequisite:** CANW 2211 **Introduction to Windows 2000 Administration** or equivalent. **Required text:** *Windows 2000: The Complete Reference*, Osborne/McGraw-Hill, Ivens and Gardinier.

*Bob Schmidt, M.A.*

Section 500: Mondays, April 15-May 6, 6-9 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$440.

**UNIX Survival Skills  
CANW 1301**

Students will be introduced to the basics of the UNIX operating system using hands-on laboratory style exploration. The course will cover UNIX fundamentals such as the file and directory structure, essential commands, the VI text editor, and the C-shell (csh) command shell. The concepts of shell and environment variables will be introduced. The student will be oriented to the various UNIX-like operating systems offered by a variety of vendors, highlighting the major similarities and differences. **Prerequisite:** **Fundamental knowledge of basic computer functions.**

*James Lupo, Ph.D.*

Section 500: Mondays, January 28-February 25, 6-9 p.m. 5 sessions. University Management Systems 001. \$380.



*Learn. Grow. Become.*

## Introduction to UNIX CANW 2301

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

*Craig McBride, M.B.A.*

Section 500: Tuesdays and Thursdays, January 22-February 12, 6-9 p.m. 7 sessions. University Computing Center 127. \$480.

## Intermediate UNIX CANW 3301

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

*Craig McBride, M.B.A.*

Section 500: Tuesdays and Thursdays, February 19-March 5, 6-9 p.m. 5 sessions. University Computing Center 127. \$480.

## UNIX System Administration CANW 5301

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

*James Lupo, Ph.D.*

Section 500: Mondays, March 11-April 15 (skip March 25), 6-9 p.m. 5 sessions. University Computing Center 127. \$480.

## WEB

### Internet Fundamentals CAWB 1001

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

*Lorraine Revelle, B.A.*

Section 500: Wednesdays, January 23 and 30, 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). \$209.

## Internet Applications CAWB 2101

This course launches you into the world of web publishing, covering File Transfer Protocol (FTP) and Telnet, and more in-depth discussion of web browsers and how they relate to web design. Learn how to set browser preferences, and how to download and install browser plug-ins for viewing multimedia files and PDF documents. Plus, you will sign up for free web space and build your own web site using free software. **Prerequisite: CAWB 1001 Internet Fundamentals** or equivalent.

*Ginny Figlar, M.A.*

Section 501: Thursdays, January 24-February 7, 6-9 p.m. University Management Systems 001.

*Nate Abrens, B.A.*

Section 502: Tuesdays, January 29-February 12, 6-9 p.m. University Management Systems 001.

*Ginny Figlar, M.A.*

Section 503: Mondays, March 4-18, 6-9 p.m. Humanities 1B45.

All Sections: 3 sessions. \$228.

## Design Techniques for Web Sites CAWB 3101

Create sites that are easy to navigate and appealing to the eye! In this course, you will learn about efficient site navigation, the fundamentals of design and color theories, effective uses of fonts, and methods to optimize image compression. **Prerequisite: CAWB 2101 Internet Applications** or equivalent.

*Beth Sigren, B.S.*

Section 501: Tuesdays, January 22 and 29, 6-9 p.m. Humanities 1B45.

Section 502: Tuesdays, February 5 and 12, 6-9 p.m. Humanities 1B45.

Section 503: Thursdays, March 7 and 14, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

*Instructor: TBA*

Section 504: Mondays, April 22 and 29, 6-9 p.m. University Computing Center 127.

All Sections: 2 sessions. \$215.

*(Web continued)*

### Introduction to Hypertext Mark-up Language (HTML): Formatting, Links, Lists and Tables CAWB 2301

Learn how to create web sites from the ground up! Topics include formatting tags, lists, links, images and tables. We will also cover meta tags, coding techniques and offer web site design tips to make functional and exciting web pages. **Prerequisites:** CAAP 2121 Windows 98 or CAAP 2131 Windows 2000 and CAWB 2101 Internet Applications or equivalent. Proficiency with PCs and the Windows operating system is necessary. An HTML reference book is recommended.

*Susan Walanski, B.A.*

Section 501: Saturdays, January 26-February 16, 9 a.m.-12 p.m.

Section 502: Mondays, January 28-February 18, 6-9 p.m.

*Ginny Figlar, M.A.*

Section 503: Thursdays, February 21-March 14, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B45. \$275.

### Intermediate Hypertext Mark-up Language (HTML): Meta Tags, Referencing and Frames CAWB 3301

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

*Beth Sigren, B.S.*

Section 501: Thursdays, January 24-February 7, 6-9 p.m. Humanities 1B45.

Section 502: Saturdays, February 23-March 9, 9 a.m.-12 p.m. Humanities 1B45.

*Karis Vail Schmidt, B.A.*

Section 503: Thursdays, March 21-April 11 (skip March 28), 6-9 p.m. University Management Systems 001.

All Sections: 3 sessions. \$228.

### Advanced Hypertext Mark-up Language (HTML) CAWB 4301

Putting the pieces together! In this course, students will build on skills learned in the Introduction and Intermediate HTML courses. Learn to code forms to make your web site interactive. Learn how, with Cascading Style Sheets, to have a more sophisticated and uniform layout. We will also review the "big picture" of web site implementation and search engines.

**Prerequisite:** CAWB 3301 Intermediate Hypertext Mark-up Language (HTML) or equivalent. You must be proficient with PCs and the Windows operating system and able to implement all skills covered in the Introduction and Intermediate HTML courses to successfully complete this course. An HTML reference book is recommended.

*Susan Walanski, B.A.*

Section 501: Saturdays, January 26-February 16, 2-5 p.m. Humanities 1B45.

Section 502: Mondays, March 4-April 1 (skip March 25), 6-9 p.m. University Management Systems 001.

*Beth Sigren, B.S.*

Section 503: Tuesdays, April 16-May 7, 6-9 p.m. University Management Systems 001.

All Sections: 4 sessions. \$275.

### Hypertext Mark-up Language (HTML) Version 4 CAWB 5311

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

*Beth Sigren, B.S.*

Section 500: Thursday, February 21, 9 a.m.-4 p.m. 1 session. University Computing Center 127. \$209.

### Introduction to JavaScript CAWB 2701

Learn the fundamentals of programming using JavaScript. Topics include concepts such as variables, functions, and objects covered in a hands-on step-by-step fashion. Class will focus on the language in terms of extending the functionality of a web page. Class will prepare you for the CAWB 3701 JavaScript Language course and assumes no previous high-level programming experience. **Prerequisite:** CAWB 4301 Advanced HTML or equivalent.

*Susan Walanski, B.A.*

Section 501: Tuesdays, February 19-March 12, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Section 502: Wednesdays, March 6-April 3 (skip March 27), 6-9 p.m. University Management Systems 001.

Section 503: Wednesdays, April 17-May 8, 6-9 p.m. University Management Systems 001.

All Sections: 4 sessions. \$275.

Web based academic credit courses are available through Independent Learning, pages 20-25.

## JavaScript Language CAWB 3701

This course will cover programming techniques such as controlling program flow, looping structures, defining and manipulating functions and the various uses of JavaScript's object properties and methods. You will learn to add to the web page visitor's experience by verifying different types of form field data; writing user defined functions for pre-loading images; using browser detection to improve and optimize the look of your pages; and learn how to read, write and delete cookies to customize a page for a return user. This course is not intended to teach general programming concepts; therefore, students should be familiar with general programming concepts such as variables, statements, parameter passing and the idea of modularized code (i.e. functions/subroutines/methods). **Prerequisite:** CAWB 2701 **Introduction to JavaScript or CAPR 1001 Introduction to Programming I** or one year of previous programming experience. **Recommended texts:** *JavaScript, The Definitive Guide* by David Flanagan or *JavaScript Bible* by Danny Goodman, Brendan Eich.

*Joyce E. Evans, B.A.*

Section 501: Saturdays, January 26-March 2, 9 a.m.-12 p.m. University Management Systems 001.

Section 502: Mondays, April 1-May 6, 6-9 p.m. Humanities 1B45.

All Sections: 6 sessions. \$350.

## Web Site Design with FrontPage 2002 CAWB 2411

Learn to develop a web presence with Microsoft's popular Web Authoring and Management tool. Over the course of the class students will create a working web site complete with formatted text, images, links and an interactive form. We will explore the many wizards that FrontPage offers as well as cover in depth the powerful management tools available for easily maintaining and managing your site. **Prerequisites:** CAAP 2121 **Windows 98** or CAAP 2131 **Windows 2000** and CAWB 1001 **Internet Fundamentals** or equivalent.

*Karis Vail Schmidt, B.A.*

Section 500: Mondays, March 4-April 1 (skip March 25), 9 a.m.-12 p.m. 4 sessions. University Management Systems 001. \$285.

## Motion Graphics Using Flash 5 CAWB 2511

Learn how to create dynamic, interactive "flash" movies for web applications. Techniques that will be covered include drawing objects, creating symbols, creating motion, tweening and simple interactivity. Homework projects will be assigned and due at the beginning of class. **Prerequisite:** CAGR 2221 **Illustrator Level I** or equivalent. **Required text:** *Flash 5: Creative Web Animation*, Derek Franklin and Brooks Patton.

*Tim Meehan*

Section 501: Saturdays, February 2-23, 9 a.m.-12 p.m.

*William Busch*

Section 502: Wednesdays, April 3-24, 6-9 p.m.

All Sections: 4 sessions. University Computing Center 127. \$300.

## Advanced Motion Graphics Using Flash 5 CAWB 3511

Take your interactive "flash" movies to the next level for web applications. Techniques you will learn include enhancing animation, adding complex interactivity using multiple movies, and learning the use of Action Scripting. Homework projects will be assigned and due at the beginning of each class meeting. **Prerequisite:** CAWB 2511 **Motion Graphics Using Flash 5** or equivalent. **Required text:** *Flash 5: Creative Web Animation*, Derek Franklin and Brooks Patton.

*William Busch*

Section 500: Saturdays, April 6-May 4, 9 a.m.-12 p.m. 5 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$350.

## Dreamweaver 4 CAWB 2611

If you haven't seen Dreamweaver in action, this course is a must. This professional level HTML editor is a sophisticated tool for creating web sites. Its powerful site management tools will be covered as well as discussion of layout techniques using tables and layers. Creating rollovers and much more will also be covered. **Prerequisite:** CAWB 2301 **Introduction HTML** or equivalent. **Required text:** *Dreamweaver 4 for Windows and Macintosh: Visual QuickStart Guide*, J. Tarin Towers.

*Tim Meehan*

Section 501: Saturdays, February 2-23, 2-5 p.m. University Computing Center 127.

*Jeff Braunstein, M.S.*

Section 502: Wednesdays, April 3-24, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

*William Busch*

Section 503: Saturdays, April 6-27, 2-5 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: 4 sessions. \$300.



*(Web continued)***ColdFusion 5  
CAWB 2811**

You've learned how to create basic web pages using HTML. Now what? How do you interact with forms and databases, create search engines, and present custom web pages? ColdFusion can help you do all these things and much more! It is one of the fastest and easiest applications available to create dynamically-driven web sites. Come see why over one million web sites are using this technology to reuse HTML code, personalize web content, create "shopping carts", and more. **Prerequisites:** CAWB 4301 **Advanced Hypertext Mark-up Language (HTML)** and CAAP 2421 **Access 2000 Level I** or equivalent and familiarity with web terminology and web server characteristics. **Required text:** *Mastering ColdFusion 5*, Danesh, Motlagh and Camden.

*Jeff Braunstein, M.S., Macromedia Certified ColdFusion 5 Developer*

Section 500: Wednesdays, February 6-March 13, 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). \$380.

**Web Site Design Project  
CAWB 9001**

Required capstone course for the Certificate in Web Site Design. Students will learn the design process, which begins with interviewing prospective clients and ends with site maintenance. Students will create and update an assigned web site to demonstrate their complete understanding of site design as well as work through the planning stages of a large site. Homework is regularly assigned and completed outside of class. Both attendance and completion of homework as assigned are mandatory for successful completion of this course.

**Prerequisite: Students must have satisfactorily completed all the required courses for the Web Site Design Certificate.** CAWB 5311 **Hypertext Mark-up Language Version 4** is recommended.

*Beth Sigren, B.S.*

Section 501: Tuesdays, February 19-March 19, 6-9 p.m.

Section 502: Thursdays, April 11-May 9, 6-9 p.m.

All Sections: 5 sessions. Humanities 1B45. \$325.

**GRAPHICS****Computer Art  
CAGR 1011**

This course is an overview of the various Windows-based graphic applications. Drawing programs such as Windows Paint and an overview of the popular illustration applications such as Adobe Illustrator and CorelDRAW will be covered! This course is designed for the person that has no previous graphic knowledge or skill. **Prerequisite: Fundamental knowledge of basic computer functions.**

*Jerry Reynolds, M.S.E.E.*

Section 500: Monday, February 4, 9 a.m.-4 p.m. 1 session. University Management Systems 001. \$184.

**Computer Art  
CAGR 1021**

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

*Barry Ratliff, M.F.A.*

Section 500: Wednesdays, January 23 and 30, 6-9 p.m. 2 sessions. Humanities 1B35. \$184.

**Introduction to Graphic Design  
CAGR 1121**

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

*Rick Hoyt, B.S.*

Section 500: Saturday, January 26, 9 a.m.-5 p.m. 1 session. Humanities 1B35. \$215.

**Introduction to Photoshop (6.0)  
CAGR 2111**

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

*Gary Franz*

Section 501: Saturdays, January 26 and February 2, 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).

*Jerry Reynolds, M.S.E.E.*

Section 502: Mondays, February 18 and 25, 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).

*Gary Franz*

Section 503: Saturdays, March 9 and 16, 9 a.m.-4 p.m. University Management Systems 001.

All Sections: 2 sessions. \$285.

### Introduction to Photoshop (6.0) CAGR 2121

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

**Prerequisite:** CAGR 1011/1021 **Computer Art** or equivalent.

*Tim Meehan*

Section 501: Mondays and Thursdays, January 28-February 7, 6-9 p.m.

*Gary Franz*

Section 502: Tuesdays, February 12-March 5, 6-9 p.m.

Section 503: Wednesdays, April 3-24, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B35. \$285.

### Photoshop for the Web (6.0) CAGR 3111

Building on the skills and experience from the Introduction to Photoshop course, this intermediate-level course introduces the student to more advanced techniques that focus on editing and creating graphics for use on the Web. Topics include applying and creating layer styles and layer effects; creating vector-based shapes and graphics; creating text objects and text effects; applying masks; advanced image manipulation; channel operations; and using Photoshop actions.

**Prerequisite:** CAGR 2111/2121

**Introduction to Photoshop** or equivalent.

*Jerry Reynolds, M.S.E.E*

Section 501: Saturdays, February 9 and 16, 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 502: Wednesdays, March 13 and 20, 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 503: Saturdays, April 6 and 13, 9 a.m.-4 p.m. University Management Systems 001.

All Sections: 2 sessions. \$285.

### Photoshop for the Web (6.0) CAGR 3121

Building on the skills and experience from the Introduction to Photoshop course, this intermediate-level course introduces the student to more advanced techniques that focus on editing and creating graphics for use on the Web. Topics include applying and creating layer styles and layer effects; creating vector-based shapes and graphics; creating text objects and text effects; applying masks; advanced image manipulation; channel operations; and using Photoshop actions.

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

**Prerequisite:** CAGR 2111/2121

**Introduction to Photoshop** or equivalent.

*Tim Meehan*

Section 501: Mondays, February 11-March 4, 6-9 p.m.

Section 502: Tuesdays, April 2-23, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B35. \$285.

### Illustrator (9.0) Level I CAGR 2211

This course offers students an extensive introduction to Adobe Illustrator. The student will learn to create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Illustrator graphics are the primary components of animation on web pages. Work can be uploaded for web application or printed as proofs or separations on paper or film for print production. Students learn how to integrate Adobe Photoshop images into their illustrations created in Illustrator. Adobe Illustrator supports many file formats for exporting files for web publishing or to page layout programs for print production. Class includes hands-on practice exercises.

**Prerequisite:** CAGR 1011/1021 **Computer Art** or equivalent.

*Jerry Reynolds, M.S.E.E.*

Section 501: Wednesdays, January 23 and 30, 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 502: Mondays, April 8 and 15, 9 a.m.-4 p.m. University Management System 001.

All Sections: 2 sessions. \$285.



# COMPUTER APPLICATIONS

(Graphics continued)

## Illustrator (9.0) Level I CAGR 2221

This course offers students an extensive introduction to Adobe Illustrator. The student will learn to create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Illustrator graphics are the primary components of animation on web pages. Work can be uploaded for web application or printed as proofs or separations on paper or film for print production. Students learn how to integrate Adobe Photoshop images into their illustrations created in Illustrator. Adobe Illustrator supports many file formats for exporting files for web publishing or to page layout programs for print production. Class includes hands-on practice exercises. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms. **Prerequisite:** CAGR 1011/1021 **Computer Art** or equivalent.

*Rick Hoyt, B.S.*

Section 501: Saturdays, February 16 and 23, 9 a.m.-4 p.m.

Section 502: Saturdays, March 9 and 16, 9 a.m.-4 p.m.

All Sections: 2 sessions. Humanities 1B35. \$285.

## Illustrator (9.0) Level II CAGR 3211

Explore advanced techniques Adobe Illustrator has to offer. Create artwork for animation on the Web. The student will investigate sharing illustrations between applications and combining continuous-tone paintings and photographs with line art. Students will gain a greater understanding of prepress issues and choosing the optimal file format for saving documents. Class includes hands-on practice exercises. **Prerequisite:** CAGR 2211/2221 **Illustrator (9.0) Level I** or equivalent.

*Jerry Reynolds, M.S.E.E.*

Section 501: Mondays, March 11 and 18, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127.

Section 502: Thursdays, April 18-May 9, 6-9 p.m. 4 sessions. University Management Systems 001.

All Sections: \$285

## Illustrator (9.0) Level II CAGR 3221

Explore advanced techniques Adobe Illustrator has to offer. Create artwork for animation on the Web. The student will investigate sharing illustrations between applications and combining continuous-tone paintings and photographs with line art. Students will gain a greater understanding of prepress issues and choosing the optimal file format for saving documents. Class includes hands-on practice exercises. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms. **Prerequisite:** CAGR 2211/2221 **Illustrator (9.0) Level I** or equivalent.

*Rick Hoyt, B.S.*

Section 500: Saturdays, April 20 and 27, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$285.

## Director 8 Shockwave Studio CAGR 3321

Learn the production of interactive multimedia for the Web, including animation, still graphics, voice and sound, text and video. A host of other graphics and sound software will be used. Emphasis will be on high quality Shockwave presentations. **Prerequisite:** CAGR 1011/1021 **Computer Art** or equivalent. This course will be taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms.

*William Busch*

Section 500: Wednesdays, February 6-27, 6-9 p.m. 4 sessions. Humanities 1B35. \$280.

## Multimedia Solutions CAGR 3421

This class introduces the types of equipment and technical considerations used in multimedia productions for CD-ROM and web delivery. The class will explore and be motivated by viewing world-class productions. There will be hands-on experience with graphic animation authoring software. **Prerequisite:** CAGR 1021/1011 **Computer Art** or equivalent. This course will be taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms. **Required text:** *Multimedia: Making It Work*, Tay Vaughan.

*William Busch*

Section 500: Thursdays, February 28-March 21, 6-9 p.m. 4 sessions. Humanities 1B35. \$248.

## PROGRAMMING

### Introduction to Programming I CAPR 1001

This is an excellent first course for students with minimal or no programming background who want to learn to program. Using an object-oriented approach, students will learn the logic patterns needed for structured programming in any language. Students will work with conditionals (if statements), loops, and modularized code. They will learn to write concise, top-down, elegant code using these basic structures. **Prerequisite:** CAAP 2121 **Windows 98**, CAAP 2131 **Windows 2000** or equivalent. **Required text:** *Karel++: A Gentle Introduction to the Art of Object-Oriented Programming*, 3rd Edition. Joseph Bergin, Mark Stehlik, Jim Roberts, and Richard Pattis.

*Charry Stover, M.S.*

Section 501: Wednesdays, January 23 and February 6; Tuesdays, January 29 and February 12, 9 a.m.-4 p.m. 4 sessions.

Section 502: Thursdays, January 24 and February 7, 6-9 p.m.; Saturdays, January 26 and February 9, 9 a.m.-4 p.m.; Mondays, January 28 and February 11, 6-9 p.m. 6 sessions.

All Sections: University Computing Center 123. \$480.





## Introduction to Programming II CAPR 2101

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

*Charry Stover, M.S.*

Section 501: Wednesdays, February 27; Tuesdays, March 5 and 19; Thursday, March 7, 9 a.m.-4 p.m. (skip week of March 10). 4 sessions.

Section 502: Thursdays, February 28 and March 21, 6-9 p.m.; Saturdays, March 2 and 9, 9 a.m.-4 p.m.; Monday, March 4, 6-9 p.m.; Wednesday, March 20, 6-9 p.m. (skip week of March 10). 6 sessions.

All Sections: 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). \$480.

## Introduction to Programming III CAPR 3101

This course will cover pointers, arrays, strings, and classes. It is hands-on and partially self-paced. Students should be able to write a C++ program with functions before taking this class. **Prerequisite:** CAPR 2101 Introduction to Programming II or equivalent. **Required text:** *C++ How to Program*, Deitel & Deitel.

*Susan Ramirez, B.S.*

Section 500: Saturdays, April 20-May 4, 9 a.m.-4 p.m. 3 sessions. University Management Systems 001. \$480.

## Introduction to Application Programming CAPR 2201

This is a more intensive introduction to programming course covering the techniques used in designing common algorithms to solve practical problems. Topics include flow of control, functions with parameter passing, data structures, abstract data types, objects, classes, arrays and file I/O. The course combines a lecture and self-paced laboratory format with hands-on programming using C++. **Prerequisite:** CAAP 2121 Windows 98 or equivalent. **Recommended text:** *Problem Solving With C++*, 3rd Edition, Savitch.

*Tom Harrold, Ed.D.*

Section 500: Mondays and Thursdays, January 24-February 21 (skip February 14), 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). \$480.

## Intermediate Application Programming CAPR 3201

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

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

Section 501: Wednesdays, January 23-February 27, 6-9 p.m. University Management Systems 001.

Section 502: Tuesdays, March 19-April 30 (skip March 26), 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: 6 sessions. \$450.

## Algorithm Design CAPR 3202

This course focuses on the application of the C subset of C++ and Java in the design of practical solutions to real-world problems. Topics include sorting and searching, internal data representation, bit manipulation, arrays and pointers, random number generation and an introduction to computer graphics, all within the context of specific program examples. Although rules of C language syntax are discussed and reinforced, primary emphasis is placed on developing the student's ability to analyze a problem inductively before approaching the computer. **Prerequisite:** CAPR 2301 Intermediate Application Programming or equivalent. Students should also have access to a computer with a text editor, C/C++ compiler and linker or Java interpreter, plus a knowledge of at least high-school level algebra.

*David Corbin, M.S.*

Section 500: Tuesdays, January 22-March 12, 6-9 p.m. 8 sessions. Humanities 1B70. \$495.

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

C++ is an extension of the C language that supports object-oriented (O-O) programming. This course will focus on the essential concepts underlying O-O programming (data abstraction, encapsulation, polymorphism) and will show how these are supported in C++ (classes and objects, public and private data and function members, inheritance, virtual functions). The course will also cover features of C++ that are not directly related to O-O programming (constants, references, initialization, function and operator overloading, default arguments, constructors, destructors, friends and inline functions). **Prerequisite:** CAPR 2101 Introduction to Programming II or proficiency in C programming is required. Programmers should be comfortable with structures, pointers, arrays, dynamic memory allocations, string handling, and the C preprocessor. Familiarity with object-oriented programming is not a prerequisite. **Recommended text:** *The C++ Programming Language*, 3rd Edition, Bjarne Stroustrup.

*Brian Kreider, B.S.*

Section 500: Tuesdays, January 22-February 26, 6-9 p.m. 6 sessions. Humanities 145. \$440.



*(Programming continued)*

## Intermediate/Advanced C++ Programming CAPR 4101

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 and arrays of objects. Another aspect of production C++ programming is the process by which programs are built and organized. The course will cover the topics of header files, type-safe linkage, linking with legacy C code, file organization, name spaces, naming schemes and coding standards. The course will cover inheritance, multiple inheritance and will address the subtle question of what situations really need inheritance and what can be better served by object containment. The concept of generic programming (iterators, collections and algorithms) using Templates (generic types) and an introduction to the Standard Template Library (STL) will be covered. **Prerequisite:** CAPR 2102 **Introduction to Object-Oriented Programming in C++** or equivalent. **Recommended text:** *The C++ Programming Language*, 3rd Edition, Bjarne Stroustrup.

*Jim Elliott, M.S.*

Section 500: Thursdays, March 7-May 2 (skip March 28), 6-9 p.m. 8 sessions. Humanities 145. \$480.

## Introduction to Object-Oriented Programming Using Java CAPR 2601

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. This course is preparation for CAPR 3601 **Java for Object-Oriented Experienced Programmers**, which covers production programming skills sufficient for writing effective software in Java. **Prerequisites:** CANW 3101 **Computer Architecture** and CAPR 3202 **Algorithm Design** or intermediate level experience with any procedural programming language. Basic programming concepts will not be covered. To determine if you have the sufficient background to meet the prerequisite requirement, go to [www.profcon.com/profcon/Prereq.htm](http://www.profcon.com/profcon/Prereq.htm). **Recommended text:** *Just Java*, Peter van der Linden.

*Carol J. Meier, M.S.*

Section 500: Mondays, January 28-March 11, 6-9 p.m. 7 sessions. Humanities 135. \$525.

## Java for Object-Oriented Experienced Programmers CAPR 3601

This in-depth look at the Java programming language begins with an overview of the Java language, then rapidly covers the basics and progresses to inheritance, packages and interfaces and exceptions. Details of the type system, compilation model and the dynamic character of the execution model are emphasized. Students will acquire production Java programming skills. Use of standard Java library packages is illustrated throughout the course. **Prerequisite:** Experience with object-oriented programming, including inheritance and polymorphism is required. Those with no object-oriented programming experience should start with **CAPR 2601 Introduction to Object-Oriented Programming Using Java**. **Recommended text:** *The Java Programming Language*, Arnold & Gosling.

*Paul Jensen, M.S.*

Section 500: Wednesdays, March 20-May 8 (skip March 27), 6-9 p.m. 7 sessions. Humanities 1B80. \$525.

## Advanced Java Programming Language Topics CAPR 4601

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:** CAPR 3601 **Java for Object-Oriented Programmers** or equivalent.

*George Watson*

Section 500: Wednesdays, February 6-March 6, 6-9 p.m. 5 sessions. Humanities 135. \$450.



Eager to explore the career possibilities in the world of computers, James Lee took Photoshop for Windows 6.0. "I want to use my creative side and have a job where I enjoy what I do." He liked the class because instructor Jerry Reynolds taught about real-world situations, not just textbook theory. James only wishes the class could have been longer so he could have learned more!

## Advanced Java Library Topics CAPR 4602

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. Other topics will include some of the following: Remote Method Invocation, CORBA, the java.sql package for relational data base access based on ODBC, Java native interfaces to allow Java to front-end code in existing C-linkable languages, and JINI. **Prerequisite:** CAPR 3601 Java for Object-Oriented Programmers or equivalent.

*Brian Decamp, B.S. and Greg Holling, B.S.*

Section 500: Mondays, April 1-29, 6-9 p.m.  
5 sessions. Humanities 335. \$450.

## Enterprise Java Beans (EJB) Overview CAPR 4603

Beans, beans, the magical fruit... This lecture course will introduce you to the world of Enterprise Java Beans (EJB), covering topics such as what is EJB and how does it fit into the J2EE (Java2 Enterprise Edition) world, overviews of supporting technologies such as JNDI (Java Naming & Directory Interface), JDBC (Java Database Connectivity), and RMI (Remote Method Invocation), entity versus session beans, security, transaction handling, best practices, portability and performance considerations. We will also look at the state of the current specification as well as how the various vendors are supporting this spec. At the end of this course, you should be able to decide whether EJB will meet your upcoming needs for remote data projects or web based applications. **Prerequisite:** CAPR 3601 Java for Object-Oriented Experienced Programmers or equivalent. CAPR 4601 Advanced Java Programming Language Topics and CAPR 4602 Advanced Java Library Topics are highly recommended, but not required. **Recommended text:** *Enterprise Java Beans*, 2nd Edition, Richard Monson-Haefel (O'Reilly).

*David Rodenbaugh, B.A.*

Section 500: Saturdays, March 2 and 9,  
9 a.m.-4 p.m. 2 sessions. Humanities 145.  
\$395.

## GUI Programming in Java CAPR 5601

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, events, containers and layout management. Swing topics include: model-view-controller, standard dialogs, menus, toolbars, splitter panes, tabbed panes, simple and advanced text components, trees and tables. This is an intermediate level Java course that requires a solid working knowledge of interfaces. **Prerequisite:** CAPR 3601 Java for Object-Oriented Experienced Programmers or equivalent.

*Geoff Thompson, M.S.*

Section 500: Mondays, January 28-March 11,  
6-9 p.m. 7 sessions. Humanities 180. \$490.

## Developing Web Applications in Java CAPR 5602

This course covers Servlets, JavaServer Pages, Java Beans and how they work together to create web applications. Additional topics include HTTP, architectural choices, multi-threading issues and using JDBC. Together these topics provide a thorough background in developing web applications, which are the core component of web based e-commerce and business-to-business transactions. Java is an excellent choice for server-side programming because it is both platform and web server independent. **Prerequisites:** CAPR 3601 Java for Object-Oriented Experienced Programmers and familiarity with HTML or equivalent.

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

Section 500: Tuesdays, January 29-March 12,  
6-9 p.m. 7 sessions. Chemistry 145. \$525.

## Java Servlets CAPR 5603

Servlets are Java programs that are used to create dynamic web content. They are faster, more portable, and more secure than most of the competing technologies. This one-day course covers what a servlet is, how servlets are managed by the web server, servlet gotchas, and the relationship between servlets and Java Server Pages (JSP's) and Enterprise Java Beans (EJB's). We'll also compare servlets with competing technologies, such as CGI and ASP. **Prerequisite:** CAPR 2601 Introduction to Object-Oriented Programming Using Java or equivalent. Some experience with HTML and/or JavaScript will also be helpful, but is not required. **Recommended text:** *Inside Servlets*, Dustin R. Callaway (Addison Wesley Longman).

*Greg Holling, B.S.*

Section 500: Saturday, March 16,  
9 a.m.-4 p.m. 1 session. University  
Computing Center 123. \$210.

## Network Embedded Java Programming CAPR 5604

This course provides a hands-on introduction to programming network-enabled embedded computers in Java. The course will focus on Dallas Semiconductor's TINI board, [www.ibutton.com/TINI/index.html](http://www.ibutton.com/TINI/index.html). Topics include embedded programming principles, the TINI platform (hardware/firmware/software), provisioning, interfacing, programming and deploying a TINI application. See [www.profcon.com/profcon/tini/conted](http://www.profcon.com/profcon/tini/conted) for further details, particularly about the hardware that students must acquire prior to class. **Prerequisites:** Java programming at the level of CAPR 4601 Advanced Java Programming Language Topics and CAPR 4602 Advanced Java Library Topics or equivalent.

*George Watson*

Section 500: Saturdays, February 16 and 23,  
9 a.m.-4 p.m. 2 sessions. Humanities 186.  
\$420.



*(Programming continued)*

## Java Internationalization

### CAPR 5605

We live in an increasingly interconnected world, and software development is not isolated from these forces. This is especially true as companies develop international development teams and distribution networks. The Java language has a number of capabilities built in that support internationalization and localization of Java-based applications. These tools include everything from message formatting to GUI glyphs and writing direction. This one-day course will provide you with an overview of the Java internationalization and localization tools. At the end of the course, you should be able to decide whether and how to internationalize your applications and decide how much internationalization to apply.

**Prerequisite:** CAPC 347 *Java for Object-Oriented Experienced Programmers* or equivalent. Some knowledge of HTML and Java GUI development is helpful, but not required. **Recommended text:** *Java Internationalization*, Andrew Deitsch and David Czarnecki (O'Reilly, 2001).

*Greg Holling, B.S.*

Section 500: Saturday, February 9,  
9 a.m.-5 p.m. 1 session.  
Humanities 125. \$240.

## Object-Oriented Design Patterns

### CAPR 5401

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

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

*Greg Holling, B.S.*

Section 500: Saturday, April 6, 9 a.m.-4 p.m.  
1 session. University Computing Center 123.  
\$210.

## Object-Oriented Analysis and Design

### CAPR 5402

This workshop combines lecture and student participation to give you a firm grounding in the fundamental precepts of object-oriented analysis and design. The exercises take a manageable, but non-trivial task (i.e. a small email system) from analysis through design. The primary analysis tools are Rumbaugh Links and CRC cards, though the instructor can address other methodologies. The primary design tool is interface prototyping, which can be done in either C++ or Java. This course will be useful for anyone wondering how to find the objects. Upon completion, you will have an excellent foundation to get the most out of C++ and Java or other object-oriented languages. Class size limited to 15 students. **Prerequisite:** CAPR 2102 *Introduction to Object-Oriented Programming in C++* or CAPR 2601 *Introduction to Object-Oriented Programming Using Java* or equivalent. Students should be comfortable programming with objects.

*Greg Holling, B.S.*

Section 500: Saturdays, April 20 and 27,  
9 a.m.-5 p.m. 2 sessions. University  
Computing Center 123. \$495.



In pursuit of his Web Design certificate, Doug Davidson took Photoshop for Windows 6.0 at CU because they "let me attack the area I wanted." Once in class, Doug found instructor Jerry Reynolds to be very knowledgeable. "We couldn't stump him." In addition, by taking the course he learned valuable shortcuts in, say, 20 minutes, whereas the same discoveries would have taken much longer if he had tried to tackle them on his own.



## Introduction to Perl for Programmers CAPR 2701

Practical Extraction and Report Language (Perl) is a powerful, flexible and easy to use scripting language that is suitable for many tasks, including system administration and distributed programming. In web development, it is used for developing CGI scripts. Topics to be covered include statements, variables, operators; arrays and LISTS; hashes; control structures and test; I/O and file handlers; CGI scripts; and much more. This course is intended for students who have had some programming experience. Therefore, students should be familiar with programming concepts such as variables, statements, parameters passing and the idea of modularized code (i.e. functions/subroutines/methods). **Prerequisite:** CAPR 1001 **Introduction to Programming I** or equivalent. **Recommended text:** *Perl for Programmers*, 3rd Edition, Wall, Christiansen and Orwant (O'Reilly).

Joyce E. Evans, B.A.

Section 500: Wednesdays, January 23-February 20, 6-9 p.m. 5 sessions.  
Humanities 1B45. \$450.

## Perl for Web Application Programming CAPR 3702

Learn how to customize some of the more popular Perl scripts that can be found on the Web, such as mailform.pl and guestbook.pl. Also, this class will have an introduction to using Perl modules, specifically working with the CGI and DBI modules. Learn what "Premature end of script header" really means and how to debug a CGI script. Actual topics/scripts covered in class may change from term to term and based upon class interest. **Prerequisites:** CAPR 2701 **Introduction to Perl for Programmers** or equivalent and an understanding of basic SQL commands. **Recommended text:** *Perl for Programmers*, 3rd Edition, Wall, Christiansen and Orwant (O'Reilly).

Joyce E. Evans, B.A.

Section 500: Thursdays, April 4-May 2, 6-9 p.m. 5 sessions. University Computing Center 127. \$450.

## Extensible Mark-up Language (XML) CAPR 3701

Got data? XML (Extensible Markup Language) is a W3C standard for encoding self-describing data. It is designed to ease the interchange of diverse types of data across a variety of platforms and applications, including the WWW. This course presents a detailed introduction to XML and its related alphabet soup: DTD (for specifying document types), XSL (for stylesheets), DOM (for object tree construction) and SAX (for event-based parsing). It will provide sufficient depth to enable an evaluation of XML's suitability for your needs. Attendees will learn the basic skills of defining and creating XML documents and the use of an XML validator, stylesheet processing using CSS and XSL, and use of the DOM and SAX parsers to extract XML content for use in Java programs. **Prerequisite:** Knowledge of programming, preferably in Java. For example, CAPR 2601 **Introduction to Object-Oriented Programming Using Java** or equivalent. Detailed knowledge of SGML and HTML is not required.

Brian DeCamp, B.S.

Section 500: Mondays, February 18-March 11, 6-9 p.m. 4 sessions.  
Humanities 145. \$415.

## Introduction to Hands-On Visual Basic Programming CAPR 2301

Visual Basic is a programming language that allows both beginning and experienced programmers to create custom Windows software without having to write out lines of code. The code is automatically generated as the standard Windows elements are inserted into the program by pointing and clicking with the mouse. The "Visual" (graphical) nature of this software makes it possible to create custom Windows programs relatively quickly and easily. **Prerequisite:** CAAP 2121 **Windows 98**, CAAP 2131 **Windows 2000** or equivalent.

David Nelson, B.S.

Section 500: Mondays, January 28-February 25, 6-9 p.m. 5 sessions.  
University Computing Center 127. \$450.

## Intermediate Hands-On Visual Basic Programming CAPR 3301

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

Steve Kaminiski, MSEE.

Section 500: Saturdays, March 2-16, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127. \$415.

## Introduction to Software Project Management CAPR 5501

Successful software projects are those that coordinate the activities of developers, marketers, quality assurance engineers, technical writers and other team members to solve complete real-world problems. This course will cover successful software project management for new project managers and those interested in understanding successful project planning. Topics include requirements analysis, project scheduling, risk management, quality assurance, testing, and team coordination. A variety of planning approaches will be discussed, including iterative, RAD, spiral, and waterfall methodologies, with an in-depth look at an object-oriented, iterative approach. The class will introduce the use of light-weight software planning tools, particularly Microsoft Project. **Prerequisite:** knowledge of C++ or Java programming. **Recommended text:** *Software Project Survival Guide*, Steve McConnell.

Richard Wolniewicz, Ph.D.

Section 500: Mondays, February 4-25, 6-9 p.m. 4 sessions. Stadium 140. \$395.



# REAL ESTATE AND APPRAISAL PROGRAM

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

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

## NEW REAL ESTATE LICENSES

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

For more information about these requirements, the state exam, and/or the application process, call the Colorado Real Estate Commission at 303-894-2166 or visit the web site at [www.dora.state.co.us/Real-Estate](http://www.dora.state.co.us/Real-Estate)

### Real Estate Law and Practice NCRE 007

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

### Colorado Contracts and Regulations NCRE 020

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

### Record Keeping and Trust Accounts NCRE 022

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

### Real Estate Closings NCRE 029

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

### Practical Applications NCRE 032

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

### Current Legal Issues NCRE 034

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

### Exam Preparation

The broker's examination is a required part of the application process for *new* and *upgrading* licensees. It is an optional *substitute* for continuing education credits for license renewal.

### Exam Prep NCRE 099

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

\* The Real Estate and Appraisal Program offers **independent broker or employing broker** courses *and* offers continuing education courses toward license renewal.

## NEW APPRAISAL LICENSES

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

Please contact the Colorado Board of Real Estate Appraisers at 303-894-2166 or visit the web site at [www.dora.state.co.us/Real-Estate](http://www.dora.state.co.us/Real-Estate) for additional information and clarification.

### Registered Appraiser: Basic Appraisal Principles and Procedures

#### NCRE 200

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

### Standards and Ethics

#### NCRE 202

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

### Basic Appraisal Applications: Residential Case Study

#### NCRE 204

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

\* The Real Estate and Appraisal Program offers all of the **Licensed, Certified Residential** and **Certified General** courses and offers continuing education toward license renewal.



For additional information, course dates, locations, registration or to request a Real Estate and Appraisal catalog visit our web site at [www.colorado.edu/conted/RealEstate](http://www.colorado.edu/conted/RealEstate) or call 303-492-5148.

WELCOME

## SPECIAL PROGRAMS

### INTERNATIONAL ENGLISH CENTER

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

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

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

**Advanced Level (NCFL 920)** MW 6:30-8:30 p.m. For students who have an extended vocabulary, understand most verb tenses effectively, read a variety of materials with little difficulty, write effectively with little guidance, and have a desire to polish their skills.

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

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



For more information please visit our web site at [www.colorado.edu/iec](http://www.colorado.edu/iec) or call 303-492-5547.

### CENTER FOR BUSINESS EDUCATION

The Center for Business Education (CBE) is a partnership between Continuing Education and the College of Business offering noncredit business and professional development programs. The CBE offers certificate programs in business education and executive development, including the CU Business Intensive Certificate program and the Colorado Executive Development in Residence program.

**The CU Business Intensive Certificate (CUBIC)** program offers non-business undergraduate students a unique opportunity to learn fundamental business skills in an interactive, time-efficient format. Students focus on Management, Marketing, Information Systems, Finance, Accounting, and Business Economics and upon completion earn a Certificate in Applied Business. Majors from Anthropology to Engineering have found that the CUBIC program enhances their degrees and gives them a competitive edge in the job market. Visit the web site at [bus.colorado.edu/cubic](http://bus.colorado.edu/cubic).

**CUBIC 2002: May 13-31, 2002**

**The Colorado Executive Development in Residence (CEDIR)** program offers managers and decision makers the opportunity to enhance their business skills, offering a curriculum that combines fundamental business concepts with cutting edge business issues. Students take classes for a total of six weeks spread over three summers. Upon successful completion of the program, students will earn a Certificate in Executive Management from the University of Colorado. Employees at IBM, Sun Microsystems, and Level 3 Communications have found the program to be valuable as well as a tremendous opportunity to learn from their fellow students and top-notch faculty. Visit the web site at [bus.colorado.edu/cedir](http://bus.colorado.edu/cedir).

**CEDIR 2002: TBD**



For more information on the CBE and its programs please visit our web site at [bus.colorado.edu/cbe](http://bus.colorado.edu/cbe) or contact us at 303-735-1246.

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



## THE 2002 ALLARD CAPITAL CONFERENCE – MAY 15-18

Attend the fifth annual Allard Capital Conference in Washington, D.C., a unique opportunity for Colorado citizens to interact with key policy makers, sponsored by U.S. Senator Wayne Allard and the University of Colorado. Past featured speakers include Alan Greenspan, Chairman of the Federal Reserve Board; Supreme Court Justice Antonin Scalia; George Tenet, Director of the Central Intelligence Agency; Arthur Levitt, Chairman of the Securities and Exchange Commission; Alan Hantman, Architect of the U.S. Capitol; and a bi-partisan group of U.S. Senators. Come away from the conference with a better understanding of how our government works and how to affect public policy makers. Participants are responsible for their own airfare and accommodations plus a non-refundable conference fee. Invitations to apply will be mailed in January. Participant selection will be made in March. For more information, call Continuing Education at 303-492-2202.

## BLURR

Blurr is the new digital innovation center at CU-Boulder dedicated to experience design. This spring Blurr is offering a great experiment in industry-academic collaboration with five courses designed specifically for graphic designers and web producers. Graphic designers acknowledge Lynda Weinman as one of the gurus of digital design and online communication. The courses listed below follow Lynda.com's curriculum while utilizing the state-of-the-art laboratories and world-class instruction at CU-Boulder.

**Dreamweaver Weekend** This course will thoroughly cover Dreamweaver's features with lots of hands-on exercises to re-enforce product and design principles. This course will cover site structure, site management, imagemaps, JavaScript and dHTML.

**Photoshop 6.0 / ImageReady 3.0 Web Weekend** This class covers everything web related in ImageReady 3.0 and Photoshop 6.0. This class will focus on techniques for making animated ad banners, optimized images, imagemaps, buttons, simple rollovers, multiple event rollovers and animated rollovers.

**Introduction to Flash 5.0 Week Intensive** Flash is an interactive multimedia application for the Web which uses vectors instead of bitmaps. Flash eliminates many of the headaches of dHTML and cascading style sheets, as it renders typography, images, sounds, and full-frame animation in a fully controllable manner.

**Intermediate Flash 5.0 Week Intensive** This class helps you learn to pick the best strategies for the different challenges you'll face as Flash developers. During the course of this class you will build a complete, functional Flash site using the techniques shown during the week.

**Advanced Flash 5.0 Week Intensive** This Workshop will teach you how to develop a sensible scripting style for complex Flash movies, and introduce you to problem-solving with conditional logic in Flash ActionScript.

For more information please visit the Blurr web site at [blurr.colorado.edu](http://blurr.colorado.edu) or call 303-735-5184.

## EMBEDDED SYSTEMS CERTIFICATE

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

The certificate consists of 3 courses:

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

Each course carries 3 semester hours of academic credit at the graduate level. All credits earned in the certificate can be transferred to a graduate engineering program at CU-Boulder. For more information, call 303-492-5148.

## SOFTWARE ENGINEERING CERTIFICATE

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

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

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

Each course carries 3 semester hours of academic credit at the graduate level. All credits earned in the certificate can be transferred to an appropriate graduate engineering program at CU-Boulder. For more information, call 303-492-5148.



**Continuing Education**  
1505 University Avenue

**\$1.25**

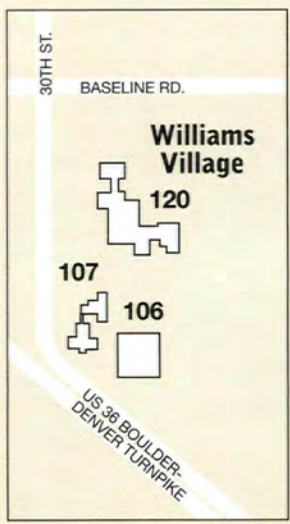
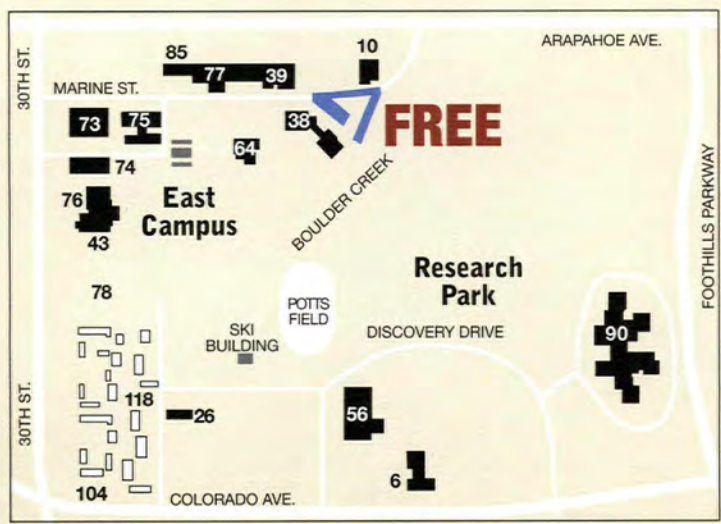
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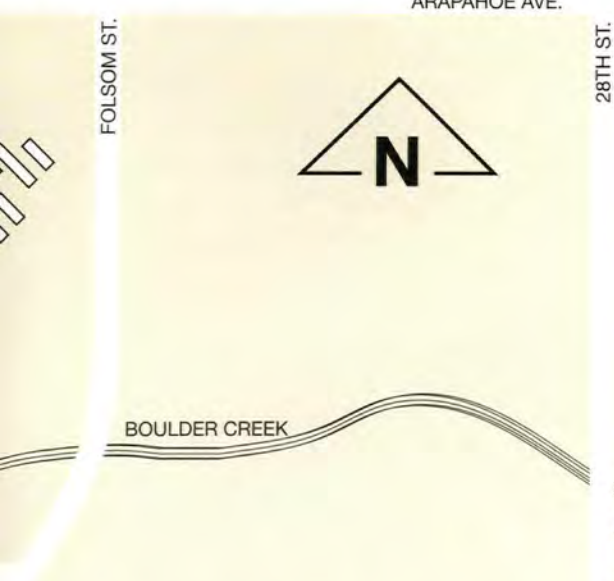
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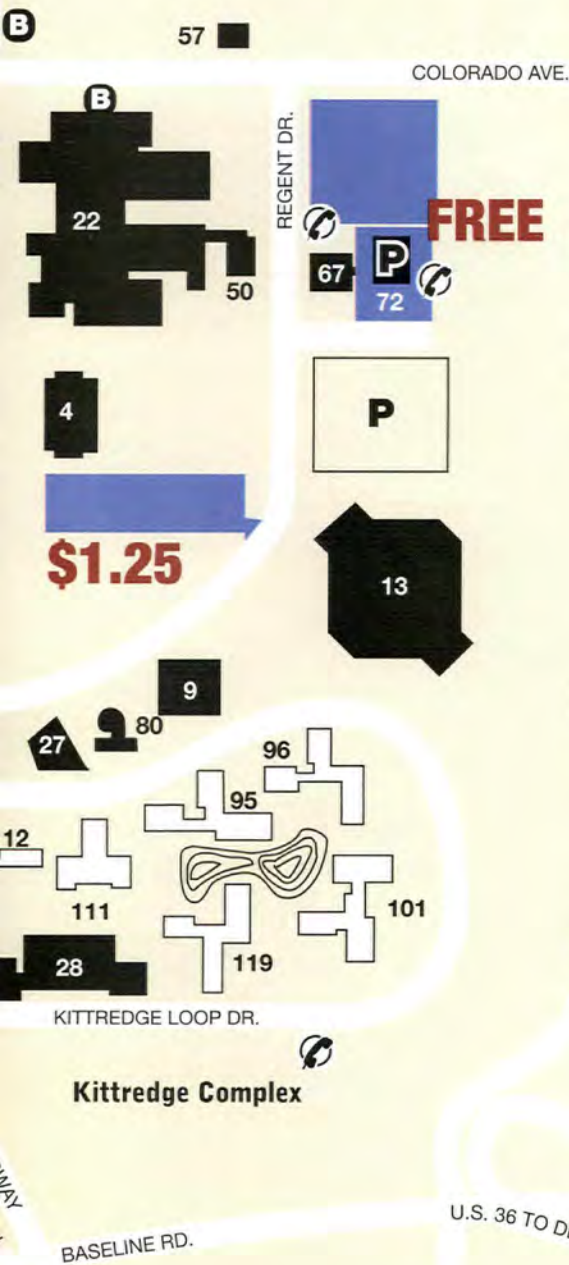
**Legend**

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

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# University of Colorado at Boulder Main Campus



### University Buildings

1. Armory (D-4)
2. Balch Fieldhouse (E-7)
3. Balch 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. Duane 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. Humanities 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)

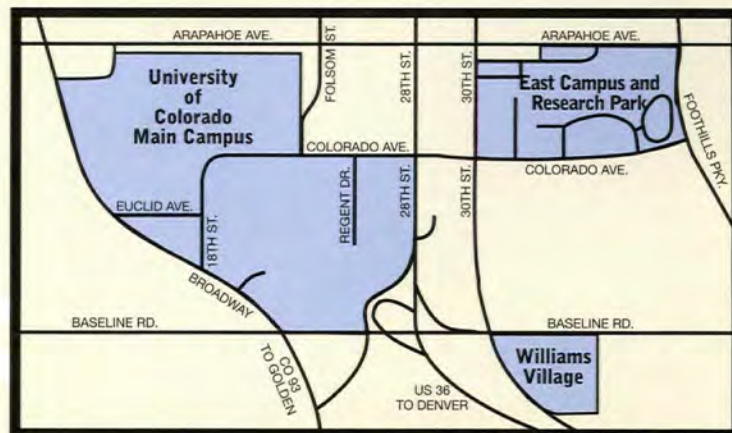
### University Housing

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 University Communications.



1. **Register by Mail.** A postage-paid envelope is located in this catalog. Registration forms are on page 67 for evening credit and page 68 for personal enrichment and computer courses.
2. **Fax Your Registration.** Fast and easy. Day or night to 303-492-3962. Send page 67 for evening credit courses and page 68 for personal enrichment and computer courses.
3. **In Person.** Come to the Continuing Education Office, 1505 University Avenue, between 8 a.m. and 6 p.m. Monday through Thursday (8 a.m. to 5 p.m. Fridays).
4. **By Phone for Personal Enrichment and Computer Courses using Visa, MasterCard, and Discover.** Complete the registration form (page 68) and have your credit card information handy. Then call 303-492-5148 or 800-331-2801 between 8:30 a.m. and 5:30 p.m. Monday through Thursday or until 5 p.m. on Friday. (TTY 303-492-8205).
5. **Use CU Connect or PLUS for Boulder Evening and Independent Learning Courses.** See page 18 for more information.

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

### Tuition

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

Student residency does not affect tuition cost for Personal Enrichment or Computer Applications courses.

All tuition and refund determinations are subject to audit.

### Credit Programs

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

Boulder Evening Credit Program

Independent Learning Programs

ACCESS and High School Concurrent Programs

Center for Advanced Training in Engineering and Computer Science

Summer Session

### Learning for Learning's Sake: Personal Enrichment Program

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

### Professional Enhancement: Certificate Programs

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

Network Administration

Programming

Web Site Design

Web Graphics

### Professional Development Programs

For working professionals to build and enhance business skills.

Center for Business Education

Real Estate and Appraisal Program

International English Center

### Where Are Courses Given?

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

### Course Updates

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

### Change Your Mind?

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

### Student Privacy

You may elect to have directory information withheld about yourself which includes requesting transcripts over the phone. Please call or visit our office to receive the required form.

### Severe Weather

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

### Books and Supplies

Required course materials are available at the CU Bookstore in the basement of the University Memorial Center on campus. Call 303-492-6411 or visit their web site at [cubooks.colorado.edu](http://cubooks.colorado.edu)

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

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

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



**UNIVERSITY OF COLORADO  
 DIVISION OF CONTINUING EDUCATION**

**PROGRAM / TERM**

Last Name	First Name	Middle Name	Former or Maiden Name

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

E-mail address \_\_\_\_\_  
 Home Phone                      Work Phone

**BIRTHDATE**                      **SEX:**                      **ETHNICITY:**                      **RESIDENCY:**                      **SOCIAL SECURITY NUMBER:**

\_\_\_\_/\_\_\_\_/\_\_\_\_                       Male                       African American or Black, not of                       Colorado                      \_\_\_\_\_/\_\_\_\_/\_\_\_\_  
 Month/Day/Year                      Age                       Female                      Hispanic origin                       Other State                      For identification purposes, if you wish to claim  
 \_\_\_\_\_                       American Indian or Alaskan Native –                      Abbr. \_\_\_\_\_                      continuing education tax credits,  
 \_\_\_\_\_                      Tribe: \_\_\_\_\_                      your social security number must be provided.

**CITIZENSHIP:**                       Asian or Pacific Islander                      **FORMER CU STUDENT NUMBER:**

C=U.S. Citizen                       Hispanic, Chicano, Mexican American, Latino                      \_\_\_\_\_  
 P=Non-U.S. Citizen/permanent status                       Multiracial – define: \_\_\_\_\_  
 -List alien registr. No. \_\_\_\_\_                       White, not of Hispanic origin  
 T=Non-U.S. Citizen-Country \_\_\_\_\_                       I do not wish to provide this information  
 -List Type of Temporary Visa \_\_\_\_\_

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

**SELECTIVE SERVICE  
 REGISTRATION CERTIFICATION:**

I certify that I am registered with the  
 Selective Service  
 I am not required to register with the  
 Selective Service because:

I am a female.  
 I am in the U.S. Armed Forces on active duty.  
 I have not yet reached my 18th birthday.  
 I am age 26, or older, as of the date of the  
 first day of class.  
 I am a non-immigrant alien lawfully  
 admitted in the U.S.

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

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

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

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

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

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

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

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

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

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

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

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Instruction offered as part of the Statewide Extended Studies Program.

## REGISTRATION FOR CERTIFICATE AND NONCREDIT COURSES

PLEASE PRINT

S.S. No. # \_\_\_\_\_

For identification purposes. If you wish to claim continuing education tax credits, your social security number must be provided.

Former Student Number \_\_\_\_\_

Birthdate \_\_\_\_\_  
Month/Day/Year

\_\_\_\_\_  
Last Name First Middle Initial Maiden

Mailing Address \_\_\_\_\_ Home Telephone \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Business Name \_\_\_\_\_

Business Address \_\_\_\_\_ Office Telephone \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

E-mail address \_\_\_\_\_

Sex  Male  Female

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

Campus \_\_\_\_\_

Term \_\_\_\_\_

Year \_\_\_\_\_ of most recent attendance.

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

### ETHNICITY:

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

### COMPUTER APPLICATIONS:

- Are you working toward a program certificate?  No  Yes
- If yes, please indicate which certificate:
  - Network Administration
  - Programming
  - Web Site Design
  - Web Graphics

### 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.

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  
University of Colorado at Boulder  
178 UCB  
Boulder, CO 80309-0178

If using MasterCard, VISA, Discover enclose the following information:

Charge: VISA  MasterCard  Discover  (check one)  
\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ Exp. Date \_\_\_\_/\_\_\_\_/\_\_\_\_

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

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

# INDEX

- A**
- ACCESS Program . . . . . 29
  - Access (database software) . . . . . 46
  - Accounting . . . . . 8
  - Acting . . . . . 36
  - Aerospace Engineering . . . . . 27
  - Algebra . . . . . 14
  - Algorithm Design . . . . . 55
  - Allard Capital Conference . . . . . 63
  - American Sign Language . . . . . 17, 23, 24, 25
  - Anthropology . . . . . 8, 20
  - Applied Music . . . . . 25
  - Appraisal courses . . . . . 61
  - Arabic . . . . . 8
  - Art History . . . . . 11
  - Astronomy . . . . . 8, 20
- B**
- Biology . . . . . 8
  - Blurr . . . . . 63
  - Boulder Evening Credit Program . . . . . 3-17
  - Broker licensing courses . . . . . 60
  - Business courses . . . . . 8, 14
  - Business Education, Center for . . . . . 62
- C**
- C++ programming . . . . . 55, 56
  - Campus Map . . . . . 64-65
  - CATECS . . . . . 27-28
  - CEDIR program . . . . . 62
  - Certificate Programs
    - Business Intensive . . . . . 62
    - Embedded Systems . . . . . 63
    - Executive Development . . . . . 62
    - Network Administration . . . . . 40
    - Programming . . . . . 41
    - Software Engineering . . . . . 63
    - Web Graphics . . . . . 40
    - Web Site Design . . . . . 40-41
  - Chinese . . . . . 34
  - Civil Engineering . . . . . 27
  - ColdFusion . . . . . 52
  - Communication . . . . . 9, 20
  - Computer Applications Program . . . . . 39-59
  - Computer Graphics . . . . . 52-54, 63
  - Computer Science . . . . . 20, 27
  - Correspondence study . . . . . 20-23, 26
  - Creative writing . . . . . 10, 37
  - CU Connect registration . . . . . 18-19
  - CUBIC program . . . . . 62
- D**
- Databases . . . . . 46, 47
  - Distance learning . . . . . 20-26, 27-28
  - Drawing . . . . . 11, 33
  - Dreamweaver . . . . . 51, 63
- E**
- Economics . . . . . 9, 20
  - Education . . . . . 21
  - Electrical and Computer Engineering . . . . . 27
  - Embedded Systems Certificate . . . . . 63
  - Engineering . . . . . 27-28, 63
  - English . . . . . 10, 21, 24
  - English as a Second Language . . . . . 62
  - Environmental Studies . . . . . 11
- F**
- Excel . . . . . 46
  - Extensible Mark-up Language (XML) . . . . . 59
- F**
- Film Studies . . . . . 11
  - Fine Arts . . . . . 11, 21, 33-34
  - Flash . . . . . 51, 63
  - Foreign Languages . . . . . 8, 12, 16-17, 34-36
  - French . . . . . 34-35
  - FrontPage . . . . . 51
- G**
- Geography . . . . . 12, 21
  - Geology . . . . . 21
  - German . . . . . 35
  - Graphic Design . . . . . 52
  - Graphics . . . . . 52-54, 63
- H**
- Hebrew . . . . . 12
  - High School Concurrent Program . . . . . 29
  - High School correspondence courses . . . . . 26
  - History . . . . . 12-13, 22
  - HTML . . . . . 50
- I**
- Illustrating books . . . . . 37
  - Illustrator . . . . . 53, 54
  - Independent Learning Programs . . . . . 20-26
  - International English Center . . . . . 62
  - Internet applications . . . . . 49
  - Italian . . . . . 35
- J**
- Japanese . . . . . 35
  - Java programming . . . . . 56, 57, 58
  - JavaScript . . . . . 50, 51
  - Journalism . . . . . 13, 22
- K**
- Kinesiology and Applied Physiology . . . . . 14, 22
- L**
- Lifestyles . . . . . 36
  - Literature . . . . . 10
- M**
- Management . . . . . 14, 27
  - Mathematics . . . . . 9, 14, 15, 22
  - Mechanical Engineering . . . . . 28
  - Multimedia . . . . . 54
  - Music . . . . . 22, 25
- N**
- Network Administration Certificate . . . . . 40
  - Network courses . . . . . 47-49
  - Nontraditional Student
    - Scholarship . . . . . 3, 31, 39
  - Nutrition . . . . . 14
- O**
- Object-Oriented Design . . . . . 58
  - Oil Painting . . . . . 33
  - On-line courses . . . . . 20-25, 28
- P**
- Painting . . . . . 11, 33
  - Parking . . . . . 64-65
  - PERL for programmers . . . . . 59
  - Personal Enrichment Program . . . . . 31-37
  - Philosophy . . . . . 14, 22
- Photography** . . . . . 11, 34
- Photoshop** . . . . . 52, 53, 63
- PLUS registration** . . . . . 18-19
- Poetry workshop** . . . . . 37
- Political Science** . . . . . 14-15, 22
- Programming Certificate** . . . . . 41
- Programming courses** . . . . . 54-59
- Psychology** . . . . . 15, 23
- Public Speaking** . . . . . 9
- Q**
- Quantitative Reasoning
    - and Mathematical Skills . . . . . 15
- R**
- Real Estate and Appraisal Program . . . . . 60-61
  - Refunds
    - Boulder Evening . . . . . 4
    - Computer Applications . . . . . 39
    - Personal Enrichment . . . . . 31
  - Registration Information . . . . . 66
  - Relational databases . . . . . 47
- S**
- Scholarships . . . . . 3, 31, 39
  - Scriptwriting . . . . . 13
  - Sculpture . . . . . 33, 34
  - Shakespeare . . . . . 10, 36
  - Shockwave . . . . . 54
  - Sign Language . . . . . 17, 23, 24, 25
  - Sociology . . . . . 16, 23
  - Software Engineering Certificate . . . . . 63
  - Software Project Management . . . . . 59
  - Spanish . . . . . 16-17, 35-36
  - Speech, Language
    - and Hearing Sciences . . . . . 17, 23, 24, 25
  - Spreadsheets . . . . . 46
  - SQL programming . . . . . 47
  - Statistics . . . . . 8
  - Stonecarving . . . . . 34
  - Stress management . . . . . 36
  - Summer Session . . . . . 29
- T**
- Telecommunications . . . . . 28
  - Theatre . . . . . 17, 36
- U**
- University Writing Program . . . . . 17, 23, 25
  - UNIX . . . . . 48, 49
- V**
- Visual Basic programming . . . . . 59
- W**
- Water Media . . . . . 33
  - Web applications courses . . . . . 49-52
  - Web-based courses . . . . . 20-25, 28
  - Web Graphics Certificate . . . . . 40
  - Web registration . . . . . 18-19
  - Web Site Design Certificate . . . . . 40-41
  - Windows . . . . . 45
  - Windows Administration . . . . . 48
  - Word processing . . . . . 45
  - Writing . . . . . 10, 17, 25, 37
- X**
- XML (Extensible Mark-up Language) . . . . . 59

# Colorado

University of Colorado at Boulder

Division of Continuing Education

1505 University Avenue

University of Colorado at Boulder

178 UCB

Boulder, Colorado 80309-0178

[www.colorado.edu/conted](http://www.colorado.edu/conted)



# Continuing EDUCATION

*CU's Division of Continuing Education provides quality, innovative, lifelong learning opportunities to a diverse student population by extending the resources of the University of Colorado at Boulder.*

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