

# Continuing EDUCATION

UNIVERSITY OF COLORADO AT BOULDER CATALOG



*become*

FALL 2001

# welcome

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

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

*As you browse through 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

Introduction to Chinese History

HIST 1608 page 13

Scriptwriting for the Entertainment Industry

JOUR 4874 page 13

History of United States Folk and Popular Music

EMUS 2752 page 14

### Personal Enrichment

Managing Stress in a Changing World

NC L 009 page 36

## SCHOLARSHIP

Scholarship funds are available to students age 25 and older taking a Continuing Education course.

For more information, call 303-492-5148 or visit us on the Web at [www.colorado.edu/conted/scholar.htm](http://www.colorado.edu/conted/scholar.htm)

## PROGRAM UPDATE

The course numbers in the Computer Applications Program have been updated and there have been some changes to the introductory requirements for the certificate in programming.

Registration Information

See page 66 or call 303-492-5148

# C O N T E N T S

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## 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.

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## CU Connect and PLUS Registration Information

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

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## Independent Learning Programs

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

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## 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.

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## Additional Credit Programs

ACCESS (Available Credit Courses for Eligible Special Students) Program  
High School Concurrent Program  
CU-Boulder Summer Session

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## Personal Enrichment Program

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

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## Computer Applications Program

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

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## 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.

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### CATALOG PRODUCTION

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

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

"More than any other region,  
the American West is shaped  
by its own myth."

*Jay Fell  
American History and Film  
Seminar in History: American West*



*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. August 13 is the Fall 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 on a space available basis. Please bring proof of appointment (showing at least half-time employment) to registration. See page 4 for registration dates.

## SURVIVAL TIP:

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

Shootouts in the center of town, families circling their wagons, cowboys and Indians – was this really the Old West? Jay Fell, a Western historian, accepts the stereotype, but he also strives to put the myth into historical context. In his classes Jay discusses the legend of the cowboy and focuses on how this enduring archetypal figure overshadows the historical account of the West. "More than any other region," says Fell, "the American West is shaped by its own myth. The reality of its development was dramatically different than how it's been portrayed. And this dichotomy is one of the major issues we want to explore."

# BOULDER EVENING REGISTRATION AND ACADEMIC CALENDAR

## FALL 2001

### August 6

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.

### August 13

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

### September 3

Labor Day Holiday. University closed.

### September 4

Full Term and Session I Boulder Evening classes begin.

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

### September 7

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

### September 11

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.

### September 12

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

### September 14

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

### September 18

5 p.m. deadline to register for Full Term classes, add your name to the 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.\*

### September 19

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

### September 25

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

### September 26

Petition required to add or drop Session I classes.

### October 2

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

### October 4-5

Fall Break. NO CLASSES.

### October 16

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

### October 17

Petition required to add or drop Full Term classes

### October 22-23

Session I classes end.

### October 24

Session II classes begin.

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

### October 29

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

### October 31

5 p.m. deadline to register for Session II classes, add your name to the 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.

### November 1

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

### November 7

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

### November 14

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

### November 15

Petition required to add or drop Session II classes.

### November 21-23

Thanksgiving Holiday. NO CLASSES.

### December 4-20

Full Term classes end.

### December 12-13

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
ANTH 3000-3	300	90165	6:30-9:30 p.m.	Primate Behavior	natural science
ASTR 1110-3	300	90163	6:30-9:30 p.m.	General Astronomy: The Solar System	natural science
BCOR 2010-3	300	90166	6-9 p.m.	Business Statistics	College of Business Core
ECON 1078-3	300	90172	6-9 p.m.	Mathematical Tools for Economists 1	quantitative reasoning and mathematical skills
ENGL 1191-3	300	90169	5:45-8:45 p.m.	Introduction to Creative Writing	none
HEBR 2110-3	300	90161	11 a.m.-1:45 p.m.	Intermediate Hebrew 1	foreign language
HIST 1608-3	300	90171	5:30-8:30 p.m.	Introduction to Chinese History	historical context
HIST 2866-3	300	90164	6:30-9:30 p.m.	American History and Film	United States context
JOUR 4874-3	300	90296	6:30-9:30 p.m.	Special Topics: Scriptwriting for the Entertainment Industry	none
PHIL 1000-3	300	90170	6-9 p.m.	Introduction to Philosophy	ideals and values
PSYC 2606-3	300	90168	6:30-9:30 p.m.	Social Psychology	contemporary societies
QRMS 1010-3	300	90162	6-9 p.m.	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills

### Courses begin September 10 and end December 10

### Courses on Mondays and Wednesdays

ARAB 1020-5	300	90148	5:30-8 p.m.	Beginning Arabic 2	foreign language
FINE 1171-3	300	90295	6:30-9 p.m.	Photography 1	none
FINE 1212-3	300	90061	6:30-9:30 p.m.	Painting 1	none
SPAN 1010-5	302	90137	6:30-9 p.m.	Beginning Spanish 1	foreign language
UWRP 3020-3	302	90026	5:30-7 p.m.	Topics in Writing: Writing about Theatre and Drama	written communication

### Courses begin September 5 and end December 12

### Course on Mondays and Thursdays

MATH 1300-5	300	90156	5:30-8:15 p.m.	Analytic Geometry and Calculus 1	quantitative reasoning and mathematical skills
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### Course begins September 6 and ends December 20

### Courses on Tuesdays

Course No. – Hours	Sec	Call #	Times	Course Title	Core
COMM 2400-3	300	90038	6:30-9:30 p.m.	Communication and Society	contemporary societies
ECON 1088-3	300	90037	6-9 p.m.	Mathematical Tools for Economists 2	quantitative reasoning and mathematical skills
ENGL 3000-3	300	90027	5:45-8:45 p.m.	Shakespeare for Nonmajors	literature and the arts
EPOB 1210-3	300	90046	6-9 p.m.	General Biology 1	natural science
EPOB 3020-3	300	90032	6-9 p.m.	Principles of Ecology	none
HIST 1010-3	300	90050	6-9 p.m.	Western Civilization 1: From Antiquity to the 16th Century	historical context
MGMT 3030-3	300	90028	6:30-9:30 p.m.	Critical Leadership Skills	none
PSCI 1101-3	300	90035	6-9 p.m.	The American Political System	contemporary societies or United States context
PSCI 2223-3	300	90023	5:30-8:30 p.m.	Introduction to International Relations	contemporary societies
SPAN 2110-3	300	90029	6-9 p.m.	Second-Year Spanish 1	foreign language

### Courses begin September 4 and end December 4

# COURSES BY START DATE

## FULL TERM CLASSES *(continued)*

### Courses on Tuesdays and Thursdays

### Courses begin September 4 and end December 13

Course No. – Hours	Sec	Call #	Times	Course Title	Core
BCOR 2000-4	300	90024	6:30-8:30 p.m.	Accounting and Financial Analysis 1	College of Business Core
ENGL 2021-3	300	90246	5:30-7 p.m.	Introductory Poetry Workshop	none
FINE 1012-3	300	90044	6:30-9:30 p.m.	Drawing 1	none
FINE 2191-3	300	90045	6:30-9 p.m.	Photography 2	none
SLHS 2315-4	300	90040	6-8 p.m.	American Sign Language 2	foreign language
SPAN 1010-5	301	90036	6:30-9 p.m.	Beginning Spanish 1	foreign language
SPAN 1020-5	300	90043	5:30-8 p.m.	Beginning Spanish 2	foreign language
UWRP 3020-3	301	90056	5:30-7 p.m.	Topics in Writing: Environmental Issues	written communication
UWRP 3020-3	303	90147	6:30-8 p.m.	Topics in Writing: World Novel, World View	written communication

### Courses on Wednesdays

### Courses begin September 5 and end December 12

ANTH 2010-3	300	90133	6:30-9:30 p.m.	Introduction to Physical Anthropology 1	natural science
ECON 2010-4	300	90139	6-9 p.m.	Principles of Microeconomics	contemporary societies
EMUS 2752-3	300	90115	6-9 p.m.	History of United States Folk and Popular Music	United States context
ENGL 1800-3	300	90126	6-9 p.m.	American Ethnic Literatures	cultural and gender diversity
ENGL 3060-3	300	90063	5:45-8:45 p.m.	Modern and Contemporary Literature	literature and the arts
ENVS 1000-3	300	90119	6:30-9:30 p.m.	Introduction to Environmental Studies	none
FILM 3501-3	300	90130	7-10 p.m.	Film Production Management	none
HIST 3000-3	300	90146	6:30-9:30 p.m.	Seminar in History: American West	critical thinking
PHIL 1600-3	300	90060	6:30-9:30 p.m.	Philosophy and Religion	ideals and values
PSYC 1001-3	300	90134	6:30-9:30 p.m.	General Psychology	none
THTR 1009-3	300	90135	6-9 p.m.	Introduction to Theatre	literature and the arts

### Courses on Thursdays

### Courses begin September 6 and end December 20

COMM 1300-3	300	90152	6:30-9:30 p.m.	Public Speaking	none
ECON 2020-4	300	90149	6-9 p.m.	Principles of Macroeconomics	contemporary societies
FINE 1300-3	300	90150	6:30-9:30 p.m.	History of World Art 1	literature and the arts
HIST 1113-3	300	90159	6:30-9:30 p.m.	The History of England to 1660	historical context
KAPH 3420-3	300	90158	6-9 p.m.	Nutrition, Health and Performance	natural science
MATH 1011-3	300	90157	6-9 p.m.	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills
PHIL 1200-3	300	90058	6:30-9:30 p.m.	Philosophy and Society	United States context or ideals and values
PSCI 2004-3	300	90160	6-9 p.m.	Survey of Western Political Thought	ideals and values
PSCI 3163-3	300	90151	5:30-8:30 p.m.	American Foreign Policy	United States context
PSYC 4303-3	300	90154	6:30-9:30 p.m.	Abnormal Psychology	none
SOCY 1006-3	300	90155	6-9 p.m.	The Social Construction of Sexuality	cultural and gender diversity
SOCY 4024-3	300	90153	6-9 p.m.	Juvenile Delinquency	contemporary societies



## SESSION I CLASSES

### Courses on Mondays and Wednesdays

### Courses begin September 5 and end October 22

Course No. – Hours	Sec	Call #	Times	Course Title	Core
ENGL 1260-3	100	90128	6-9 p.m.	Introduction to Women's Literature	cultural and gender diversity
ENGL 3000-3	100	90127	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
GEOG 1982-3	100	90123	6-9 p.m.	World Regional Geography	none
HIST 2100-3	100	90132	5:30-8:30 p.m.	Revolution in History: Russian Revolutions	historical context

### Courses on Tuesdays and Thursdays

### Courses begin September 4 and end October 23

FILM 3563-3	100	90041	7-10 p.m.	Producing the Feature Film	none
GEOG 1001-4	100	90025	6-9 p.m.	Environmental Systems 1: Climate and Vegetation	natural science
JOUR 1002-3	100	90048	6-9 p.m.	Critical Thinking and Writing	none
SOCY 1005-3	100	90034	6-9 p.m.	Social Conflict and Social Values	contemporary societies or ideals and values
SOCY 1015-3	100	90030	6-9 p.m.	U.S. Race and Ethnic Relations	United States context

## SESSION II CLASSES

### Courses on Mondays and Wednesdays

### Courses begin October 24 and end December 12

COMM 2400-3	200	90176	6:30-9:30 p.m.	Communication and Society	contemporary societies
ENGL 1600-3	200	90178	6-9 p.m.	Masterpieces of American Literature	literature and the arts
GEOG 1992-3	200	90177	6-9 p.m.	Human Geographies	none
HIST 1025-3	200	90174	5:30-8:30 p.m.	History of the United States since 1865	United States context
KAPH 3420-3	200	90175	6-9 p.m.	Nutrition, Health and Performance	natural science
PSCI 4734-3	200	90173	6-9 p.m.	Politics and Literature	critical thinking

### Courses on Tuesdays and Thursdays

### Courses begin October 25 and end December 13

COMM 1300-3	200	90183	6-9 p.m.	Public Speaking	none
GEOG 1011-4	200	90184	6-9 p.m.	Environmental Systems 2: Landscapes and Water	natural science
JOUR 1001-3	200	90181	6-9 p.m.	Contemporary Mass Media	none
SOCY 1004-3	200	90182	6-9 p.m.	Deviance in U.S. Society	ideals and values
SOCY 1016-3	200	90180	6-9 p.m.	Sex, Gender, and Society 1	cultural and gender diversity
SOCY 3151-3	200	90179	6-9 p.m.	Self in Modern Society	United States context or ideals and values

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

3 SEMESTER HOURS

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

*Sue Woods, Ph.D.*

Full Term - Section 300: Call No. 90133  
Wednesdays, 6:30-9:30 p.m. Hale 230.  
\$375 (resident).

**Primate Behavior****ANTH 3000**

3 SEMESTER HOURS

Surveys naturalistic primate behavior. Social behavior, behavioral ecology, and evolution are emphasized as they lead to an understanding of human behavior. Prereq., ANTH 2010 and 2020, or EPOB 1210 and 1220, and junior standing. Approved for arts and sciences core curriculum: natural science.

*Sue Woods, Ph.D.*

Full Term - Section 300: Call No. 90165  
Mondays, 6:30-9:30 p.m. Hale 240.  
\$375 (resident).

**ARABIC****Beginning Arabic 2****ARAB 1020**

5 SEMESTER HOURS

This is the second semester of beginning Arabic. Prereq., ARAB 1010. Approved for arts and sciences core curriculum: foreign language. ARAB 1010 is tentatively scheduled for Fall 2002.

*Nadia Turk, Ph.D.*

Section: 300: Call No. 90148 Mondays and Wednesdays, 5:30-8 p.m. Hellems 245.  
\$645 (resident).

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

3 SEMESTER HOURS

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

*Joe Romig, Ph.D.*

Full Term - Section 300: Call No. 90163  
Mondays, 6:30-9:30 p.m. Hale 270.  
\$375 (resident).

**BIOLOGY****General Biology 1****EPOB 1210**

3 SEMESTER HOURS

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

*Beth Bennett, Ph.D.*

Full Term - Section 300: Call No. 90046  
Tuesdays, 6-9 p.m. Ramaley N1B23.  
\$375 (resident).

**Principles of Ecology****EPOB 3020**

3 SEMESTER HOURS

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

*Alcinda Lewis, Ph.D.*

Full Term - Section 300: Call No. 90032  
Tuesdays, 6-9 p.m. Clare Small 211.  
\$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.

*Dov Fischer, C.P.A.*

Full Term - Section 300: Call No. 90024  
Tuesdays and Thursdays, 6:30-8:30 p.m.  
Business 353. \$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. 90166  
Mondays, 6-9 p.m. Business 125.  
\$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. 90152  
Thursdays, 6:30-9:30 p.m. Humanities 190.  
\$375 (resident).

*David Steiner, Ph.D.*

Session II - Section 200: Call No. 90183  
Tuesdays and Thursdays, 6-9 p.m.  
Humanities 135. \$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. 90038  
Tuesdays, 6:30-9:30 p.m. Humanities 190.  
\$375 (resident).

Session II - Section 200: Call No. 90176  
Mondays and Wednesdays, 6:30-9:30 p.m.  
Humanities 190. \$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. 90172  
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. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

*William Mertens, Ph.D.*

Full Term - Section 300: Call No. 90037  
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 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. 90139  
Wednesdays, 6-9 p.m. Economics 2.  
\$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 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.

*Jason Moule, M.A.*

Full Term - Section 300: Call No. 90149  
Thursdays, 6-9 p.m. Economics 119.  
\$500 (resident).

As a professional cyclist, Kirk Robinson trains and races during the day. He likes the evening classes offered through Continuing Education at CU because he can pursue his degree in English without taking time away from his training schedule. "You get the college atmosphere that you wouldn't get at a community college, and I know the credits will transfer directly toward my degree."



# 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. 90169  
Mondays, 5:45-8:45 p.m. Hellems 259.  
\$375 (resident).

### Introduction to Women's Literature ENGL 1260

3 SEMESTER HOURS

Introduces literature by women in England and America. Covers both poetry and fiction and varying historical periods. Acquaints 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 I - Section 100: Call No. 90128  
Mondays and Wednesdays, 6-9 p.m.  
Hellems 267. \$375 (resident).

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

### Masterpieces of American Literature ENGL 1600

3 SEMESTER HOURS

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

*Patricia Thompson, M.A.*

Session II - Section 200: Call No. 90178  
Mondays and Wednesdays, 6-9 p.m.  
Hellems 255. \$375 (resident).

### American Ethnic Literatures ENGL 1800

3 SEMESTER HOURS

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

*Joel Daehnke, Ph.D.*

Full Term - Section 300: Call No. 90126  
Wednesdays, 6-9 p.m. Economics 117.  
\$375 (resident).

### Introductory Poetry Workshop ENGL 2021

3 SEMESTER HOURS

Introductory course in poetry writing. Prereq., completion of ENGL 1191 with a grade of B- or better, or equivalent transfer course work. May be repeated for a total of 9 credit hours.

*Naomi Rachel, M.A.*

Full Term - Section 300: Call No. 90246  
Tuesdays and Thursdays, 5:30-7 p.m.  
Hellems 245. \$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. 90027  
Tuesdays, 5:45-8:45 p.m. Guggenheim 2.  
\$375 (resident).

*Pamela Hadas, Ph.D.*

Session I - Section 100: Call No. 90127  
Mondays and Wednesdays, 5:30-8:30 p.m.  
Hellems 255. \$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. 90063  
Wednesdays, 5:45-8:45 p.m. Hellems 229.  
\$375 (resident).

truly ethereal...to gladly surrender to elements  
dominated by time...to be partners in an endless  
ever-changing celestial dance...i lift my heart  
fire, earth, water and wind...a magical moment

## 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.

*Eric Stone, Ph.D.*

Full Term - Section 300: Call No. 90119  
Wednesdays, 6:30-9:30 p.m. Stadium 140.  
\$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. 90041  
Tuesdays and Thursdays, 7-10 p.m.  
Guggenheim 205. \$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. 90130  
Wednesdays, 7-10 p.m. Guggenheim 206.  
\$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. 90044  
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. For fine arts majors. May not be repeated.

*Greg Massey, M.F.A.*

Full Term - Section 300: Call No. 90295  
Mondays and Wednesdays, 6:30-9 p.m.  
Fine Arts N185. \$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. 90061  
Mondays and Wednesdays, 6:30-9:30 p.m.  
Fine Arts N103. \$425 (resident).

### History of World Art 1 FINE 1300

3 SEMESTER HOURS

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

*Christine Dupont-Patz, M.A.*

Full Term - Section 300: Call No. 90150  
Thursdays, 6:30-9:30 p.m. Hale 230.  
\$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. 90045  
Tuesdays and Thursdays, 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. 90025  
Tuesdays and Thursdays, 6-9 p.m.  
Hellems 199. \$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. 90184  
Tuesdays and Thursdays, 6-9 p.m.  
Hellems 199. \$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 MAPS requirement for social science: geography.

*Betsy Forrest, M.A.*

Session I - Section 100: Call No. 90123  
Mondays and Wednesdays, 6-9 p.m.  
Guggenheim 205. \$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 MAPS requirement for social science: geography.

*Betsy Forrest, M.A.*

Session II - Section 200: Call No. 90177  
Mondays and Wednesdays, 6-9 p.m.  
Guggenheim 205. \$375 (resident).

**HEBREW****Intermediate Hebrew I  
HEBR 2110**

3 SEMESTER HOURS

This is the first semester of intermediate Hebrew. Prereq., HEBR 1020. Approved for arts and sciences core curriculum: foreign language. HEBR 1010 is tentatively scheduled for Spring 2002.

*Uri Neil, J.D.*

Full Term - Section 300: Call No. 90161  
Mondays, 11 a.m.-1:45 p.m.  
Continuing Education Center, Room 140,  
\$375 (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. 90050  
Tuesdays, 6-9 p.m. Hellems 211.  
\$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 II - Section 200: Call No. 90174  
Mondays and Wednesdays, 5:30-8:30 p.m.  
Hellems 267. \$375 (resident).



Jenny Waymire is a full-time undergraduate student at CU. She's taking a History class because her day class schedule was already full. Jenny likes having a night class in her schedule. "Everyone I've talked to who's taken a Continuing Ed class has said it was their best class of the semester, and I agree. I like the more laid back, informal format. The classes are 3 hours instead of 50 minutes, so we get to know each other and have good discussions."

## The History of England to 1660 HIST 1113

3 SEMESTER HOURS

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

*Jean McGinnis, Ph.D.*

Full Term - Section 300: Call No. 90159  
Thursdays, 6:30-9:30 p.m. Engineering  
Center CR 150. \$375 (resident).

## Introduction to Chinese History HIST 1608

3 SEMESTER HOURS

Introduces students 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. 90171  
Mondays, 5:30-8:30 p.m. Education 220.  
\$375 (resident).

## Revolution in History: Russian Revolutions HIST 2100

3 SEMESTER HOURS

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

*Merle Funk, Ph.D.*

Session I - Section 100: Call No. 90132  
Mondays and Wednesdays, 5:30-8:30 p.m.  
Ketchum 235. \$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. 90164  
Mondays, 6:30-9:30 p.m. Economics 117.  
\$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. 90146  
Wednesdays, 6:30-9:30 p.m. Hellems 251.  
\$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. 90181  
Tuesdays and Thursdays, 6-9 p.m.  
Hellems 247. \$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. 90048  
Tuesdays and Thursdays, 6-9 p.m.  
Hellems 247. \$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. 90296  
Mondays, 7-10 p.m. Ketchum 118. \$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.*

Full Term - Section 300: Call No. 90158  
Thursdays, 6-9 p.m. Clare Small 207.  
\$375 (resident).

*Luke Seaward, Ph.D.*

Session II - Section 200: Call No. 90175  
Mondays and Wednesdays, 6-9 p.m.  
Clare Small 207. \$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. 90028  
Tuesdays, 6:30-9:30 p.m. Muenzinger E113.  
\$375 (resident).

Sach Sanchez is taking a history course through Continuing Education at CU. The students at Continuing Education come from varied backgrounds, and they are often genuinely interested in the classes they've chosen. This dynamic helps the students learn because they all want to be there, and the different viewpoints become catalysts for lively discussions.

### 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. 90157  
Thursdays, 6-9 p.m. Engineering Center  
CR 151. \$375 (resident).

#### Analytic Geometry and Calculus 1

MATH 1300

5 SEMESTER HOURS

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

*Ira Becker, Ph.D.*

Full Term - Section 300: Call No. 90156  
Mondays and Thursdays, 5:30-8:15 p.m.  
Hale 260. \$625 (resident).

### MUSIC

#### History of United States Folk and Popular Music

EMUS 2752

3 SEMESTER HOURS

Offers a stylistic and historical examination of trends that have influenced present-day American music. Approved for arts and sciences core curriculum: United States context.

*Brian Moon, M.M.*

Full Term - Section 300: Call No. 90115  
Wednesdays, 6-9 p.m. Music Bldg. N1B59.  
\$388 (resident).

### PHILOSOPHY

#### Introduction to Philosophy

PHIL 1000

3 SEMESTER HOURS

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

*David Youkey, Ph.D.*

Full Term - Section 300: Call No. 90170  
Mondays, 6-9 p.m. Ketchum 119.  
\$375 (resident).

Music lessons are available through Applied Music, page 25.





## 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.

*Lee Speer, M.A.*

Full Term - Section 300: Call No. 90058  
Thursdays, 6:30-9:30 p.m. Hellems 241.  
\$375 (resident).

## Philosophy and Religion

PHIL 1600

3 SEMESTER HOURS

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

*Lee Speer, M.A.*

Full Term - Section 300: Call No. 90060  
Wednesdays, 6:30-9:30 p.m. Hellems 241.  
\$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. 90035  
Tuesdays, 6-9 p.m. Ketchum 120.  
\$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. 90160  
Thursdays, 6-9 p.m. Ketchum 119.  
\$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. 90023  
Tuesdays, 5:30-8:30 p.m. Economics 205.  
\$375 (resident).

### American Foreign Policy

PSCI 3163

3 SEMESTER HOURS

Examines foundations, assumptions, objectives, dynamics, and methods of U.S. foreign policy since WWII. By using case studies, the course gives special attention to domestic and external problems of adapting U.S. policy to the changing world environment. Topics include the Vietnam War, the Gulf War, and the U.S. led intervention in Kosovo. Prereq., PSCI 2223. Approved for arts and sciences core curriculum: United States context.

*James C. Ross, Ph.D.*

Full Term - Section 300: Call No. 90151  
Thursdays, 5:30-8:30 p.m. Economics 205.  
\$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 II - Section 200: Call No. 90173  
Mondays and Wednesdays, 6-9 p.m.  
Ketchum 303. \$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. 90134  
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. Prereq., PSYC 1001. Similar to PSYC 4406; students may not receive credit for both 2606 and 4406. Approved for arts and sciences core curriculum: contemporary societies.

*Patrick Vann, Ph.D.*

Full Term - Section 300: Call No. 90168  
Mondays, 6:30-9:30 p.m. Muenzinger E113.  
\$375 (resident).

## BOULDER EVENING CREDIT

(Psychology continued)

### 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. 90154  
Thursdays, 6:30-9:30 p.m. Muenzinger  
E113. \$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. 90162  
Mondays, 6-9 p.m. Engineering Center  
CR 151. \$375 (resident).

### 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 II - Section 200: Call No. 90182  
Tuesdays and Thursdays, 6-9 p.m.  
Muenzinger E0046. \$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 I - Section 100: Call No. 90034  
Tuesdays and Thursdays, 6-9 p.m.  
Hellems 201. \$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. 90155  
Thursdays, 6-9 p.m. Education 220.  
\$375 (resident).

#### U.S. Race and Ethnic Relations

SOCY 1015

3 SEMESTER HOURS

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

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

*Instructor: TBA*

Session I - Section 100: Call No. 90030  
Tuesdays and Thursdays, 6-9 p.m. Hale 240.  
\$375 (resident).

#### Sex, Gender, and Society 1

SOCY 1016

3 SEMESTER HOURS

Examines status and power differences between the sexes at individual and societal levels. Emphasizes historical cross-cultural context of gender roles and status, and reviews major theories of gender stratification. Same as WMST 1016.

Approved for arts and sciences core curriculum: cultural and gender diversity.

*Instructor: TBA*

Session II - Section 200: Call No. 90180  
Tuesdays and Thursdays, 6-9 p.m.  
Hellems 201. \$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. 90179  
Tuesdays and Thursdays, 6-9 p.m.  
Economics 117. \$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. 90153  
Thursdays, 6-9 p.m. Ramaley N1B23.  
\$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 301: Call No. 90036  
Tuesdays and Thursdays, 6:30-9 p.m.  
Hellems 185. \$645 (resident).

*Javier Garces, B.A.*

Full Term - Section 302: Call No. 90137  
Mondays and Wednesdays, 6:30-9 p.m.  
Hellems 247. \$645 (resident).

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

### 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 300: Call No. 90043  
Tuesdays and Thursdays, 5:30-8 p.m.  
Hellems 255. \$645 (resident).

### Second-Year Spanish 1 SPAN 2110

3 SEMESTER HOURS

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

*Javier Garces, B.A.*

Full Term - Section 300: Call No. 90029  
Tuesdays, 6-9 p.m. Chemistry 145.  
\$395 (resident).

## SPEECH, LANGUAGE AND HEARING SCIENCES

### American Sign Language 2 SLHS 2315

4 SEMESTER HOURS

Develops more complex vocabulary and grammatical structures, and an understanding of deaf culture. Classes are taught using ASL without the use of spoken English. Prereq., SLHS 2305 or equivalent. Approved for arts and sciences core curriculum: foreign language.

*Willard Moers, M.A.*

Full Term - Section 300: Call No. 90040  
Tuesdays and Thursdays, 6-8 p.m.  
Ketchum 301. \$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. 90135  
Wednesdays, 6-9 p.m. Humanities 1B80.  
\$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. 90056  
Tuesdays and Thursdays, 5:30-7 p.m.  
McKenna 112. \$375 (resident).

### Writing about Theatre and Drama

*Suzanne Hudson, M.A.*

Full Term - Section 302: Call No. 90026  
Mondays and Wednesdays, 5:30-7 p.m.  
Clare Small 301. \$375 (resident).

### World Novel, World View

*Petger Schaberg, M.A.*

Full Term - Section 303: Call No. 90147  
Tuesdays and Thursdays, 6:30-8 p.m.  
Clare Small 209. \$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 fall and have no academic or financial stop which could prevent you from registering. To be activated for Continuing Education for fall, 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 Fall 2001 and follow the instructions on the web page from there to add, drop or wait-list for a course, and request pass/fail or no credit. You will need to enter the 5 digit course call numbers to register for courses and click on the "submit" button to

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

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

## Register Using CU Connect

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

the Boulder-campus code 1

the Continuing Education code 1

the registration application code 1

the term code 017

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 wait-list positions are on a first-come, first-served basis.

You can check your position on any course wait list either on the Web at [www.colorado.edu/plus](http://www.colorado.edu/plus) or by calling CU Connect and pressing 5# (list schedule function). **If you choose to wait-list for a Boulder Evening 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 (017 for fall) followed by your student number and PIN. To determine the term code for previous semesters, the first two digits are the year and the last digit the semester (1=Spring, 4=Summer, 7=Fall).

## Additional Web Functions

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

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

## Problems? Questions?

If you have any type of registration stop, you will not be allowed to enroll via CU Connect or PLUS. Please call our registration office at 303-492-5148 for more information on your stop. This information is also available on PLUS at [www.colorado.edu/plus](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	90011	\$300
ANTH	1040	650	Principles of Anthropology 2	Kathy Greene, M.A.	3	90010	\$300
ANTH	2010	650	Introduction to Physical Anthropology 1	Kathy Greene, M.A.	3	90012	\$300
ANTH	2020	650	Introduction to Physical Anthropology 2	Kathy Greene, M.A.	3	90013	\$300
ANTH	2070	640	Bones, Bodies, and Disease	Dawn Mulhern, Ph.D.	3	90014	\$360
ANTH	2200	650	Introduction to Archaeology	Kathy Greene, M.A.	3	90015	\$300
<b>COMMUNICATION</b>							
COMM	2400	640	Communication and Society	Robert Agne, M.A.	3	90016	\$360
COMM	2400	650	Communication and Society	Robert Agne, M.A.	3	90017	\$360
COMM	4600	640	Senior Seminar: Computer-Mediated Communication in Organizations	Brenda J. Allen, Ph.D.	3	90018	\$360
<b>COMPUTER SCIENCE</b>							
CSCI	2830	640	Special Topics: Social, Ethical, and Professional Issues in Computer Science	James P. Gately, M.T.	1	90019	\$120
CSCI	2830	650	Special Topics: Social, Ethical, and Professional Issues in Computer Science	James P. Gately, M.T.	1	90020	\$120
<b>ECONOMICS</b>							
ECON	2010	640	Principles of Microeconomics	Laura Argys, Ph.D.	4	90021	\$480
ECON	2010	650	Principles of Microeconomics	Laura Argys, Ph.D.	4	90022	\$480
ECON	2020	640	Principles of Macroeconomics	Jules Kaplan, Ph.D.	4	90031	\$480
ECON	2020	650	Principles of Macroeconomics	Laura Argys, Ph.D.	4	90033	\$480
ECON	3403	640	International Economics and Policy	Jules Kaplan, Ph.D.	3	90039	\$360
ECON	4111	640	Money and Banking Systems	Jules Kaplan, Ph.D.	3	90042	\$360
<b>EDUCATION</b>							
EDUC	4161	640	Children's Literature	Phyllis Kennemer, Ed.D.	3	90047	\$360
EDUC	4161	650	Children's Literature	Phyllis Kennemer, Ed.D.	3	90049	\$360
EDUC	4322	650	Literature for Middle School and Secondary School Teachers	Caroline McKinney, Ph.D.	3	90051	\$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>ENGLISH</b>							
ENGL	1191	650	Introduction to Creative Writing	Michael Arvey, M.A.	3	90052	\$300
ENGL	1260	650	Introduction to Women's Literature	Nancy Story, M.A.	3	90053	\$300
ENGL	1600	651	Masterpieces of American Literature	John Quinn, M.A.	3	90065	\$300
ENGL	2021	650	Introduction to Poetry Workshop	Michael Arvey, M.A.	3	90055	\$300
ENGL	3000	650	Shakespeare for Nonmajors	Rhonda Sanford, Ph.D.	3	90057	\$300
ENGL	3051	640	Intermediate Fiction Workshop	Todd Pinney, Ph.D.	3	90059	\$360
ENGL	3051	650	Intermediate Fiction Workshop	Todd Pinney, Ph.D.	3	90062	\$360
ENGL	3060	651	Modern and Contemporary Literature	Todd Pinney, Ph.D.	3	90064	\$300
ENGL	3081	650	Intermediate Nonfiction Workshop: Travel Journal Writing	Todd Pinney, Ph.D.	3	90066	\$300
ENGL	3553	650	Chaucer: The Canterbury Tales	Zelda Rouillard, Ph.D.	3	90067	\$300
ENGL	3563	650	Shakespeare 1	Rhonda Sanford, Ph.D.	3	90068	\$300
ENGL	3573	650	Shakespeare 2	Rhonda Sanford, Ph.D.	3	90069	\$300
ENGL	3655	640	American Literature to 1860	Todd Pinney, Ph.D.	3	90070	\$360
ENGL	3655	650	American Literature to 1860	Todd Pinney, Ph.D.	3	90071	\$360
ENGL	3665	640	American Literature after 1860	Todd Pinney, Ph.D.	3	90072	\$360
ENGL	3665	650	American Literature after 1860	Todd Pinney, Ph.D.	3	90073	\$360
ENGL	4100	650	The English Language	Zelda Rouillard, Ph.D.	3	90074	\$300
<b>FINE ARTS</b>							
FINE	1012	650	Basic Drawing (Multimedia)	Patricia Cheyne, M.F.A.	3	90075	\$300
FINE	1300	587	History of World Art 1	Molli Kuenstner, M.A.	3	90283	\$474
FINE	3637	650	Art for the Elementary Teacher	Patricia Cheyne, M.F.A.	3	90076	\$300
<b>GEOGRAPHY</b>							
GEOG	1001	650	Environmental Systems 1: Climate and Vegetation	Dixon Smith, Ph.D.	4	90077	\$400
GEOG	1011	650	Environmental Systems 2: Landscapes and Water	Dixon Smith, Ph.D.	4	90078	\$400
GEOG	1992	640	Human Geographies	Leigh Miller, M.A.	3	90079	\$360
<b>GEOLOGY</b>							
GEOL	1010	640	Introduction to Geology 1	Emily CoBabe, Ph.D.	3	90080	\$360
GEOL	1010	650	Introduction to Geology 1	Emily CoBabe, Ph.D.	3	90081	\$360
GEOL	1020	650	Introduction to Geology 2	Hilde Schwartz, Ph.D.	3	90082	\$300

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

## INDEPENDENT LEARNING

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
<b>HISTORY</b>							
HIST	1010	640	Western Civilization 1: Antiquity to the 16th Century	Jeanne Christensen, M.A.	3	90083	\$360
HIST	1010	650	Western Civilization 1: Antiquity to the 16th Century	Jeanne Christensen, M.A.	3	90084	\$360
HIST	1015	650	History of the United States to 1865	James Fell, Ph.D.	3	90085	\$300
HIST	1020	640	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, M.A.	3	90086	\$360
HIST	1020	650	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, M.A.	3	90087	\$360
HIST	1025	650	History of the United States since 1865	James Fell, Ph.D.	3	90088	\$300
HIST	2117	640	History of Colorado	James Fell, Ph.D.	3	90089	\$360
HIST	2117	650	History of Colorado	James Fell, Ph.D.	3	90145	\$360
HIST	4217	650	The American West in the Nineteenth Century	Anthony McGinnis, Ph.D.	3	90090	\$300
HIST	4227	650	The American West in the Twentieth Century	Anthony McGinnis, Ph.D.	3	90091	\$300
HIST	4733	640	The Russian Revolution and the Soviet Regime	David Pretty, Ph.D.	3	90092	\$360
<b>JOURNALISM</b>							
JOUR	1001	640	Contemporary Mass Media	Rebecca Self Hill, Ph.D.	3	90294	\$360
JOUR	3771	640	Mass Communication History	Cinda Gillilan, Ph.D.	3	90093	\$360
<b>KINESIOLOGY AND APPLIED PHYSIOLOGY</b>							
KAPH	3420	640	Nutrition, Health, and Performance	Mary Beth Monroe, Ph.D.	3	90094	\$360
KAPH	3420	650	Nutrition, Health, and Performance	Frank Konishi, Ph.D.	3	90095	\$360
<b>MATHEMATICS</b>							
MATH	1011	650	Fundamentals and Techniques of College Algebra	Brian Clark, M.A.	3	90096	\$300
MATH	1021	650	Numerical and Analytical College Trigonometry	Kristen Marshall, Ph.D.	2	90097	\$200
MATH	1071	650	Finite Mathematics for Social Science and Business	Kristen Marshall, Ph.D.	3	90098	\$300
MATH	1081	650	Calculus for Social Science and Business	Kristen Marshall, Ph.D.	3	90099	\$300
MATH	1300	650	Analytic Geometry and Calculus 1	Brian Clark, M.A.	5	90100	\$500
MATH	2300	650	Analytic Geometry and Calculus 2	Kristen Marshall, Ph.D.	5	90101	\$500
<b>MUSIC</b>							
EMUS	1081	650	Basic Music Theory	Debbie Corisis, M.A.	3	90102	\$300
<b>PHILOSOPHY</b>							
PHIL	1000	650	Introduction to Philosophy	Barbara Morrison, Ph.D.	3	90103	\$300
PHIL	1100	650	Ethics	Barbara Morrison, Ph.D.	3	90104	\$300
PHIL	1600	650	Philosophy and Religion	Barbara Morrison, Ph.D.	3	90105	\$300
PHIL	4040	650	Studies in Twentieth-Century Philosophy	Barbara Morrison, Ph.D.	3	90106	\$300
<b>POLITICAL SCIENCE</b>							
PSCI	1101	650	The American Political System	Jeffrey Ian Ross, Ph.D.	3	90107	\$300
PSCI	2223	650	Introduction to International Relations	Jeffrey Ian Ross, Ph.D.	3	90108	\$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	90109	\$300
PSYC	2012	640	Biological Psychology 1	Howard Bashinski, Ph.D.	3	90110	\$360
PSYC	2012	650	Biological Psychology 1	Howard Bashinski, Ph.D.	3	90111	\$360
PSYC	2022	650	Biological Psychology 2	Howard Bashinski, Ph.D.	3	90112	\$300
PSYC	2303	640	Psychology of Adjustment	Gary Stern, Ph.D.	3	90114	\$360
PSYC	2303	650	Psychology of Adjustment	Gary Stern, Ph.D.	3	90116	\$360
PSYC	2606	650	Social Psychology	Gary Stern, Ph.D.	3	90117	\$300
PSYC	3101	640	Statistics and Research Methods in Psychology	Howard Bashinski, Ph.D.	4	90118	\$480
PSYC	3101	650	Statistics and Research Methods in Psychology	Howard Bashinski, Ph.D.	4	90120	\$480
PSYC	4303	640	Abnormal Psychology	Brett King, Ph.D.	3	90281	\$360
PSYC	4303	650	Abnormal Psychology	Brett King, Ph.D.	3	90121	\$360
PSYC	4456	650	Psychology of Personality	Tim Bockes, Ph.D.	3	90122	\$300
PSYC	4511	650	History of Psychology	Wayne Viney, Ph.D.	3	90125	\$300
PSYC	4684	640	Developmental Psychology	Cheryl Sanders, Ph.D.	3	90129	\$360
PSYC	4684	650	Developmental Psychology	Cheryl Sanders, Ph.D.	3	90131	\$360
<b>SOCIOLOGY</b>							
SOCY	1001	650	Analyzing Society	Steve Wilson, Ph.D.	3	90136	\$300
SOCY	1016	650	Sex, Gender and Society 1	Eleanor Hubbard, Ph.D.	3	90140	\$300
SOCY	4014	641	Criminology	Steve Wilson, Ph.D.	3	90210	\$360
SOCY	4014	650	Criminology	Steve Wilson, Ph.D.	3	90142	\$360
SOCY	4025	640	Conflict Management in Social Systems	Guy Burgess, Ph.D.	3	90143	\$360
SOCY	4086	641	Family and Society	Eleanor Hubbard, Ph.D.	3	90144	\$360
<b>SPEECH, LANGUAGE AND HEARING SCIENCES</b>							
SLHS	4035	587	The Linguistic Structure of ASL	Jeff Davis, Ph.D.	3	90284	\$597
SLHS	5035	587	The Linguistic Structure of ASL	Jeff Davis, Ph.D.	3	90285	\$597
SLHS	5045	587	Discourse Analysis of ASL	Cynthia Roy, Ph.D.	3	90286	\$597
SLHS	5055	587	Assessing First and Second Language Skills	Suzette Garay, Ph.D.	3	90287	\$597
<b>UNIVERSITY WRITING PROGRAM</b>							
UWRP	3020	587	Topics in Writing: <i>Catcher in the Rye</i>	Lynn Gingrass, M.A.	3	90288	\$474
UWRP	3040	587	Writing on Business and Society	Anne Bliss, Ph.D.	3	90289	\$474
UWRP	3040	588	Writing on Business and Society	Amy Goodloe, M.A.	3	90290	\$474

## \* SECTION LEGEND

65x = print-based correspondence course

64x = online, self-paced course

58x = online, term-based course

## INDEPENDENT LEARNING

## FALL 2001 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.*

**History of World Art 1****FINE 1300**

3 SEMESTER HOURS

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

Section 587 Call No. 90283

Term Dates: September 4-December 13

Instructor: Mollie Kuenstner, M.A.

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 587 Call No. 90284

SLHS 5035 Section 587 Call No. 90285

Term Dates: September 4-December 13

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 587 Call No. 90286

Term Dates: September 4-December 13

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 587 Call No. 90287  
Term Dates: September 4-December 13  
Instructor: Suzette Garay, Ph.D.  
Tuition: \$597.

### Topics in Writing: *Catcher in the Rye* UWRP 3020

3 SEMESTER HOURS

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

Section 587 Call No. 90289  
Term Dates: September 4-December 13  
Instructor: Lynn Gingrass, M.A.  
Tuition: \$474.

### 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 587 Call No. 90290  
Term Dates: September 4-December 13  
Instructor: Anne Bliss, Ph.D.  
Tuition: \$474.

Section 588 Call No. 90291  
Term Dates: September 4-December 13  
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 2556 Biology 1  
 HSCI 2656 Biology 2  
 HSCI 5155 Biology 3: Advanced Biology

## SOCIAL STUDIES

HSST 0156 Civics  
 HSST 0355 Sociology  
 HSST 0755 Psychology  
 HSST 1755 Ethnic Studies and Human Relations  
 HSST 2157 World Geography 1  
 HSST 2257 World Geography 2  
 HSST 3156 World History 1  
 HSST 3256 World History 2  
 HSST 3357 American History 1  
 HSST 3457 American History 2  
 HSST 3756 American Government: Theories, Policies, and Politics  
 HSST 3857 American Government: National Level

## STUDY SKILLS

HSTS 0101 Effective Methods of Study



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

On the Web: [www.colorado.edu/cewww](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 5007	Introduction to Finite Elements	Felippa	12:30-1:45 p.m.	TR
ASEN 5054	Operations Research Models for System Engineering	Morgenthaler	11 a.m.-12:15 p.m.	TR
ASEN 5168	Remote Sensing Instrumentation	Emery	11-11:50 a.m.	MWF
ASEN 5227	Aerospace Mathematics 1	Morgenthaler	2-3:15 p.m.	TR
ASEN 5417	Numerical Methods for Differential Equations	Biringen	3:30-4:45 p.m.	TR
ASEN 5519	Adaptive Control of Flexible Structures	Balas	5-6:15 p.m.	MW

### CIVIL ENGINEERING

CVEN 5226	Quality and Safety	Brown	1-1:50 p.m.	MWF
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### COMPUTER SCIENCE

CSCI 5273	Network Systems	Mishra	12:30-1:45 p.m.	TR
CSCI 5535	Fundamental Concepts of Programming Languages	Diwan	1-1:50 p.m.	MWF
CSCI 5582	Artificial Intelligence	Martin	11 a.m.-12:15 p.m.	MW
CSCI 5593	Advanced Computer Architecture	Grunwald	12:30-1:45 p.m.	TR
CSCI 7717	Topics in Database Systems	King	5:30-6:45 p.m.	MW

### ELECTRICAL AND COMPUTER ENGINEERING

ECEN 5016	Fundamentals of Photonics	Piestun	12:30-1:45 p.m.	TR
ECEN 5139	Synthesis of VLSI Systems	Somenzi	12-12:50 p.m.	MWF
ECEN 5448	Advanced Linear Systems	Meyer	11-11:50 a.m.	MWF
ECEN 5523	Compiler Construction Tools	Waite	11-11:50 a.m.	MWF
ECEN 5797	Power Electronics 1	Erickson	2-2:50 p.m.	MWF
ECEN 5831	Brains, Minds and Computers	Wachtel/Beeman	12:30-1:45 p.m.	TR
ECEN 6003	Digital VLSI Circuit Design	Khatri	5-6:15 p.m.	TR

### ENGINEERING MANAGEMENT

EMEN 5010	Introduction to Engineering Management	Daughton	2-4:30 p.m.	M
EMEN 5020	Accounting and Finance for Engineering Managers	Hensler	2-4:30 p.m.	W
EMEN 5030	Project Management Systems	Daughton	3:30-4:45 p.m.	TR
EMEN 5300	Management of R&D	TBA	2-4:30 p.m.	F
EMEN 5500	Operations Management	TBA	5-7:30 p.m.	R
EMEN 5900	Research Techniques in Engineering Management	Young	12-12:50 p.m.	MWF

### MECHANICAL ENGINEERING

MCEN 5126	Applied Statistics for Manufacturing and Process Industries	Clough	3:30-4:45 p.m.	TR
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# C A T E C S (Center for Advanced Training in Engineering and Computer Science)

## TELECOMMUNICATIONS

TLEN 5190	Telecommunications Standards	Schoechle	5-7 p.m.	R
TLEN 5300	Telecommunications Theory and Applications	Mitchell	8-9:15 a.m.	TR
TLEN 5310	Telecommunications Systems	Mitchell	8-9:15 a.m.	MW
TLEN 5330	Data Communications 1	Gates	8-9:15 a.m.	TR
TLEN 5340	Digital Telecommunications Networks	Thompson	5:30-8 p.m.	T
TLEN 5350	Satellite Communications	Mitchell	9:30-10:45 a.m.	MW
TLEN 5500	Cable TV	Bardsley	11 a.m.-12:15 p.m.	TR
TLEN 5510	Wireless Communications	Brown	2-2:50 p.m.	MWF
TLEN 5832	Engineering Economics	Savage	4-4:50 p.m.	MWF
TLEN 5834	Network Programming	Robertson	5:30-8 p.m.	T
TLEN 5835	Economics, Policy and Management	Bardsley	2-3:15 p.m.	TR
TLEN 5838	Optical Communications	Feuerstein	5-6:15 p.m.	MW

## WEB COURSES IN TELECOMMUNICATIONS

TLEN 5300W	Telecommunications Theory and Applications	Mitchell
TLEN 5340W	Digital Telecommunications Networks	Thompson
TLEN 5500W	Cable TV	Bardsley
TLEN 5600W	Telecommunications Seminar	Hatfield
TLEN 5700W	Telecommunications Capstone Seminar	Brown

## HOW TO REGISTER FOR CATECS COURSES

Registration for Fall 2001 Courses: July 16-August 10

Late Registration: August 11-31

1. Complete the registration form available from our web site at [www.colorado.edu/CATECS](http://www.colorado.edu/CATECS) or from the CATECS office at 303-492-6331.
2. Mail, fax or bring your registration form to CATECS (do not both fax and mail your form). If faxing, call the same day to confirm receipt.
3. You will receive a confirmation packet by mail within two weeks of receipt.
4. Call the CU 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 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 Fall semester begins Friday, August 24 and classes begin Monday, August 27. 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.

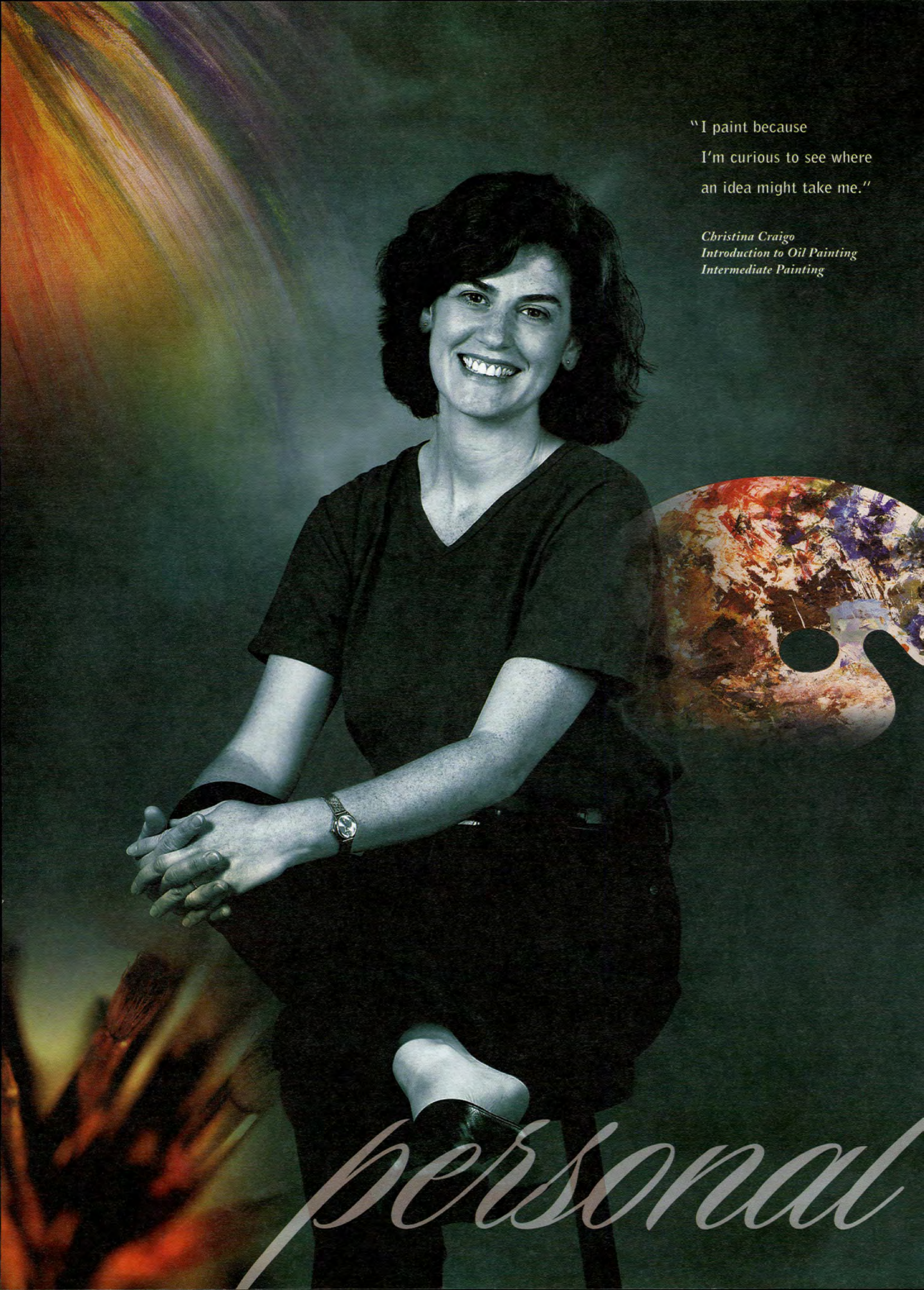
Classes are smaller, more relaxed and more personal. Different terms allow you to take classes and have time to work, travel, relax or participate in an internship.

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.



"I paint because  
I'm curious to see where  
an idea might take me."

*Christina Craigo*  
*Introduction to Oil Painting*  
*Intermediate Painting*

*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. August 13 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/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.

"To me painting is ultimately about making a connection with someone who'll later view the work. But on a more immediate level, it's about exploration and having fun." Christina Craigo prefers to begin a painting with no preconceptions of how it will end up. "I paint because I'm curious to see where an idea might take me. It's no fun if you know the ending before you start." As a teacher, Christina aims to share with her students her excitement about the experience of painting. The message is getting through. One of Christina's students recently told her, "I'm going to paint for the rest of my life because I love the way I feel when I'm doing it."

enrichment

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## FINE ARTS

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

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## 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 Skills for Advanced Beginners  
Spanish: Beginning Conversational Skills  
Spanish: Conversational Skills for Advanced Beginners  
Spanish: Intermediate Conversational Skills

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## LIFESTYLES

Managing Stress in a Changing World

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## THEATRE

Your Stories, Your Voice! – Solo Performance

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## WRITING

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

## PERSONAL ENRICHMENT

## FINE ARTS

**Fearless Basic Photography**  
NCFA 001

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

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

Section 300: Tuesdays, September 11-October 30, 6:30-8:30 p.m. Economics 13. 8 sessions. \$160.

**Creative Photography Workshop**  
NCFA 002

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

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

Section 300: Thursdays, September 27-November 29 (no class November 22), 7:30-9:30 p.m. Economics 2. 9 sessions. \$205.

**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. This class will not meet on October 31. 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 300: Wednesdays, September 12-November 7 (no class October 31), 6:30-8:30 p.m. Fine Arts N298. 8 sessions. \$170.

**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 300: Mondays, September 10-October 29, 6:30-8:30 p.m. Fine Arts N298. 8 sessions. \$170.

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

**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 1971.*

Section 300: Mondays, September 10-October 29, 6:30-8:30 p.m. Fine Arts C102. 8 sessions. \$170.

**Introduction to Drawing**  
NCFA 020

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

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

Section 300: Tuesdays, September 11-October 30, 6:30-8:30 p.m. Fine Arts C153. 8 sessions. \$170.



Christopher Hon is taking Beginning Conversational Spanish. Many students choose Continuing Education at CU because it's convenient and close to home. They also respect its educational reputation. Continuing Education students know CU has a lot to offer nontraditional students.

## PERSONAL ENRICHMENT

*(Fine Arts continued)***Introduction to Oil Painting**  
NCF A 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 300: Tuesdays, September 11-October 30, 6:30-8:30 p.m. Fine Arts N103. 8 sessions. \$170.

**Intermediate Painting**  
NCF A 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. Please bring all materials to the first class meeting.

*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 300: Thursdays, October 25-December 6 (no class November 22), 6:30-8:30 p.m. Fine Arts N103. 6 sessions. \$130.



Olivia Carlson has been impressed with the Continuing Education classes she's taken at CU. In fact, she's enjoyed them so much that she's decided to pursue a degree in social science. Olivia describes Continuing Education at CU as a "good resource for nontraditional students." Her most recent class is Beginning Conversational Spanish. Olivia says, "I think it's valuable for people to know a second language, and learning Spanish has made me want to learn more." Olivia plans to put her Spanish skills to the test when she takes her vacation in Mexico.

**Basic Sculpture**  
NCF A 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. Students will receive a materials list upon registration.

*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 1971.*

Section 300: Wednesdays, September 12-October 31, 6:30-8:30 p.m. Fine Arts C102. 8 sessions. \$170.

**Commercial and Digital Photo Workshop**  
NCF A 061

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

*Tim Benko has 20 years experience as photographer and owner of Benko PhotoGraphics, shooting all formats for a large variety of commercial clients. With the first digital photo studio in Boulder, Tim is an advocate and pioneer of the "Digital Photography Revolution".*

Section 300: Tuesdays, September 11-October 16, 7-9 p.m. Benko PhotoGraphics in Boulder. 6 sessions. \$145.

## FOREIGN LANGUAGES

**Chinese: Beginning Conversational and Written Skills**  
NCF L 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. This class will not meet on October 31. Required text available at the CU Book Store.

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

Section 300: Wednesdays, September 12-November 7 (no class October 31), 6:30-8:30 p.m. Hellems 191. 8 sessions. \$170.

**Chinese: Conversational and Written Skills for Advanced Beginners**  
NCF L 208

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

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

Section 300: Thursdays, September 13-November 1, 6:30-8:30 p.m. Hellems 191. 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 Book Store.

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

Section 300: Tuesdays, September 11-  
November 13, 6:30-8:30 p.m. Hellems 267.  
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, *Parlons Francois II*, available at the CU Book Store.

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

Section 300: Thursdays, September 13-  
November 15, 6:30-8:30 p.m. Hellems 137.  
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 earned her M.A. in German from CU-Boulder and teaches first and second year German courses on campus.*

Section 300: Thursdays, September 13-  
November 8 (no class October 4), 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 Book Store.

*Tina Pugliese has an M.A. in Foreign Languages and Cinema Study from the University of Rome, Italy. She 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 301: Mondays, September 10-  
October 29, 6-8 p.m. Hellems 251.  
8 sessions. \$170.

Section 302: Tuesdays and Thursdays,  
September 11-October 4, 6-8 p.m.  
Hellems 193. 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 Book Store.

*Tina Pugliese has an M.A. in Foreign Languages and Cinema Study from the University of Rome, Italy. She 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 300: Tuesdays, October 9-  
November 27, 6-8 p.m. Hellems 181.  
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 is introduced.

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

Section 300: Mondays and Wednesdays,  
September 10-October 3, 6-8 p.m.  
Hellems 185. 8 sessions. \$170.

### Japanese: Conversational 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 Civilizations.*

Section 300: Mondays and Wednesdays,  
October 8-31, 6-8 p.m. Hellems 185.  
8 sessions. \$170.

*Learn more about...*

## PERSONAL ENRICHMENT

*(Foreign Languages continued)***Spanish:  
Beginning Conversational Skills  
NCFL 103**

Basic but lively conversational Spanish for travelers. We stress practical vocabulary. Required text: *Getting Along in Spanish*, by Jarvis, available at the CU Book Store.

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

Section 301: Tuesdays, September 11-October 30, 7-9 p.m. Hellems 271.  
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. She has 7 years experience teaching Spanish in the U.S.*

Section 302: Wednesdays, September 12-October 31, 6:30-8:30 p.m. Hellems 137.  
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 303: Mondays and Wednesdays, October 1-24, 6:30-8:30 p.m. Hellems 237.  
8 sessions. \$170.

**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*, by Jarvis, available at the CU Book Store.

*Itza Zavala, M.A., is a native speaker from Mexico City and is working on her Ph.D. in Spanish at CU-Boulder. She has 7 years experience teaching Spanish in the U.S.*

Section 301: Tuesdays, September 11-October 30, 6:30-8:30 p.m. Hellems 137.  
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 302: Mondays and Wednesdays, November 5-28, 6:30-8:30 p.m. Hellems 237. 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*, by Bretz, available at the CU Book Store.

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

Section 300: Thursdays, September 13-November 1, 7-9 p.m. Hellems 259.  
8 sessions. \$170.

## 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 effective are your coping skills? This introductory course is designed to expose you to a sound, holistic approach to stress management involving the integration of balance and harmony of mind, body, spirit, and emotions. You will be introduced to excellent coping skills and a host of effective relaxation techniques. We will discuss the nature of stress, the relation between stress and disease as well as the value of stress reducing strategies like meditation, art, music, yoga, humor, nutrition, and more. Our goal will be to not only prevent and alleviate the physical symptoms of stress, but to learn to thrive in times of stress and bring you back to a sense of balance.

*Brian Luke Seaward is a nationally recognized expert in the field of stress management, stress and spirituality, and mind-body-spirit healing. He earned a Ph.D. from the University of Maryland in Health Wellness and 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 a Mountain, Flow Like Water, Stressed Is Desserts Spelled Backwards, and The Health of the Human Spirit.*

Section 300: Tuesdays, September 11-October 16, 7-9 p.m. Clare Small 301.  
6 sessions. \$120.

## THEATRE

**Your Stories, Your Voice!:  
Solo Performance  
NCTH 028**

Create your own solo performance from script to stage! Write a three to seven minute piece from your own experience or imagination that will be revised and rehearsed in class to culminate in a theatre performance open to your invited guests and the general public. Each class will open with acting warm-ups and improvisational exercises to draw out each individual's expressiveness. In a safe environment we will experiment with many writing and performance exercises to help each student arrive at an engaging script and performance. Invaluable experience will be gained by aiding each other along the creative process – solving problems and moving forward. All levels of experience in writing and performance are welcome. Experience the exhilaration of performing your own creation for a live audience!

*Beth Osnes completed her Ph.D. in Theater from CU-Boulder and 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 300: Mondays, September 10-October 29, 6:30-8:30 p.m. Economics 2.  
8 sessions. \$160.

## WRITING

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

NC W 005

From sure-to-sell query letters to sure-to-happen publication, learn all the steps to successful magazine article writing and sales. We will cover what editors look for, query letters, catchy openings, how to write an organized yet creative article, and finally how to market the finished product. The instructor also works individually with students' articles. This class will not meet on Monday, September 24.

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

Section 300: Mondays, September 10-October 22 (no class September 24), 6:30-8:30 p.m. Ketchum 120. 6 sessions. \$120.

### 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/M.F.A. Creative Writing) is a professional writer with over 300 publications in regional and national publications.*

Section 300: Wednesdays, September 26-November 14, 7-9 p.m. Hellems 263. 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 300: Tuesdays, September 18-October 30, 6:30-8:30 p.m. Hellems 259. 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 work for support and advice.

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

Section 300: Saturday, November 10, 9 a.m.-4 p.m. Continuing Education Center, Room 140, 1505 University Avenue. 1 session. \$100.

### 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 is a published poet with an M.A. in Creative Writing from the University of Colorado.*

Section 300: Mondays, September 10-October 29, 6:30-8:30 p.m. Hellems 177. 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. This class will not meet on October 4.

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

Section 300: Thursdays, September 20-November 15 (no class October 4), 7:30-9:30 p.m. Hellems 271. 8 sessions. \$160.



Josh Mesinger is taking Beginning Conversational Spanish through Continuing Education at CU. Students who work during the day like taking a class in the evening because it's easy to fit into their schedule. They also appreciate the fact that the classes are small. The smaller class sizes make people feel more comfortable to participate, and the instructor can spend more one-on-one time with each student.

"The Computer is an enabling tool."

*Bob Schmidt*

*Introduction to Windows 2000 Administration*

A man with a mustache, wearing a dark polo shirt and light-colored trousers, stands smiling in a computer room. The room is dimly lit with a blueish-purple hue. In the background, a keyboard is visible on the left, and a CD-ROM is on the right. The word "computer" is written in a large, white, cursive font at the bottom of the image.

*computer*



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

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

## GENERAL COURSE INFORMATION

### Prerequisites

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

### Grading Policy

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

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

### Textbooks

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

## OTHER MISCELLANEOUS INFORMATION

### Enrollment Limits

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

### Classroom Locations

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

- University Computing Center (UCC) on 3645 Marine (at the corner of Arapahoe and Marine)
- University Management Systems (UMS) building on 4780 Pearl East Circle (east of Foothills Parkway on Pearl)
- Division of Continuing Education (CEDU) on 1505 University Ave.
- 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 before it begins. **Once the course begins, no refund will be issued** as we will not be able to replace your seat in class.

### Course Cancellations

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


### Faculty/Staff Discounts

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

### Scholarships

Students who are 25 years of age or older may be eligible for the Nontraditional Student Scholarship for Continuing Education courses. August 13 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 or part lecture and part hands-on. Please note that most hands-on courses will take place in a PC lab, unless otherwise specified.

Our course numbers have changed; however, most course titles are still the same. If you have any questions regarding the new course numbers, call 303-492-5148.

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).

With a degree in business and experience in fields ranging from the aerospace industry to financial firms, Bob Schmidt has seen how computers have changed the face of business. "Computers enhance productivity. A computer is an enabling tool. It provides shortcuts and alternative forms of communication." Bob knows the benefits of computers, and he wants to pass that knowledge on to his students. "In teaching I use the real world approach. I create scenarios from everyday life and get my students to solve computer-related problems they will encounter in the business world."

## CERTIFICATE PROGRAMS

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

All courses listed under each certificate program must be taken for successful completion of the certificate. If you feel a course within the certificate requirements is too basic, you may replace this course with another course within the Computer Applications Program. The course you plan to use as a substitute must relate to the certificate you are working on. **Approval must be obtained for the substitution. You may substitute up to two courses only.** For a substitution request, complete a form at [www.colorado.edu/conted/cpsub.htm](http://www.colorado.edu/conted/cpsub.htm) and send it to the Computer Applications Program, Division of Continuing Education, University of Colorado at Boulder, 178 UCB, Boulder, CO 80309-0178. You may also e-mail us at [cecas@colorado.edu](mailto:cecas@colorado.edu).

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

Once you have completed all the requirements for your certificate, please send a written request for your certificate. Send the request via e-mail to [cecas@colorado.edu](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.

*\* Please note that the certificate in Computer Applications has been discontinued. If you started this certificate prior to Summer 2001, you may proceed with completing the requirements. However, there is no guarantee that all the courses for this certificate will be offered. Please contact the Computer Applications Program at 303-492-6596 if you have any questions or concerns.*

## CERTIFICATE IN NETWORK ADMINISTRATION

For this certificate, you must complete the required courses in one of the two tracks (Windows/Intel or UNIX), the operating systems courses, the 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

*CANW 1301 Hands-on UNIX is highly recommended, but not required.*

### 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 (select one):

CANW 2211 Introduction to Windows 2000 Administration

CANW 3211 Intermediate Windows 2000 Administration

CANW 5301 UNIX System Administration

### E. Programming Course

Choose one programming course. (See page 55 for course listings.)

### F. Database Course

Choose one database course. (See page 46 for course listings.)

## CERTIFICATE IN WEB SITE DESIGN

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

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

### A. Required Core Courses

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

1st – 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. (Reminder: Prerequisite(s) must be completed first.)

CAWB 3101 Design Techniques for Web Sites

### C. Required Multimedia Elective

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

CAGR 3321 Macromedia Director

CAGR 3421 Multimedia Solutions

CAWB 2611 Using Macromedia DreamWeaver to Create Web Sites\*

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

- CAGR 2111 Photoshop for Windows, Level I
- CAGR 3111 Photoshop for Windows, Level II
- CAGR 2211 Illustrator for Windows, Level I
- CAGR 2121 Photoshop for Macintosh, Level I
- CAGR 3121 Photoshop for Macintosh, Level II
- CAGR 2221 Illustrator for Macintosh, Level I

#### E. Web Course Elective

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

- CAWB 2102 Doing Business on the Internet
- CAWB 5311 Hypertext Mark-up Language Version 4
- CAWB 2411 Web Site Design with FrontPage 2000
- CAWB 3701 JavaScript Language
- CAWB 2611 Using Macromedia DreamWeaver to Create Web Sites\*
- 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 have changed for the Fall 2001 term. If you started on the programming certificate prior to Fall 2001, you may complete under the old or new requirements.**

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

#### A. Required Introductory Courses

(Choose option 1 or 2. If you are not sure whether you should choose option 1 or 2, please read the course overviews for a detailed description of these courses on our web site at [www.colorado.edu/conted/computer.htm](http://www.colorado.edu/conted/computer.htm) or contact us at 303-492-5148.)

**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 5101 C++ Gotchas

Two Design Topics Courses

##### 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

###### 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

###### Database Design Topics

CAAP 4501 Database Design Concepts

CAAP 4502 Relational Database Concepts and SQL Programming

# COURSES BY START DATE

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
<b>Computer Applications...Course descriptions begin on page 45</b>					
Computer Literacy	CAAP 1001-300	09/04/2001	10/02/2001	6-8 p.m.	5
Windows 95 Level I	CAAP 2111-300	09/05/2001	09/05/2001	9 a.m.-4 p.m.	1
Windows 98 Level I	CAAP 2121-300	10/09/2001	10/09/2001	9 a.m.-4 p.m.	1
Word 97 (8.0) Level I	CAAP 2211-300	10/15/2001	10/18/2001	9 a.m.-2:30 p.m.	2
Word 2000 (9.0) Level I	CAAP 2221-300	09/11/2001	09/18/2001	9 a.m.-2:30 p.m.	2
Excel 97 (8.0) Level I	CAAP 2311-300	09/10/2001	09/10/2001	9 a.m.-4 p.m.	1
Excel 97 (8.0) Level II	CAAP 3311-300	09/17/2001	09/17/2001	9 a.m.-4 p.m.	1
Excel 2000 (9.0) Level I	CAAP 2321-300	09/06/2001	09/06/2001	9 a.m.-4 p.m.	1
Excel 2000 (9.0) Level II	CAAP 3321-300	09/20/2001	09/20/2001	9 a.m.-4 p.m.	1
Access 97 (8.0) Level I	CAAP 2411-300	09/13/2001	09/20/2001	9 a.m.-4 p.m.	2
Access 2000 (9.0) Level I	CAAP 2421-300	10/02/2001	10/09/2001	9 a.m.-4 p.m.	2
Access 2000 (9.0) Level II	CAAP 3421-300	10/29/2001	10/29/2001	9 a.m.-4 p.m.	1
Database Design Concepts	CAAP 4501-300	11/07/2001	11/14/2001	9 a.m.-4 p.m.	2
Relational Database Concepts and SQL Programming	CAAP 4502-300	10/01/2001	10/29/2001	6-8 p.m.	9
AutoCAD Level I	CAAP 2511-300	09/24/2001	10/29/2001	6-9 p.m.	6
<b>Networking...Course descriptions begin on page 47</b>					
Introduction to Networks	CANW 1001-301	09/11/2001	10/02/2001	6-9 p.m.	4
Introduction to Networks	CANW 1001-302	10/10/2001	10/31/2001	6-9 p.m.	4
Computer Systems Overview	CANW 2101-300	09/11/2001	10/02/2001	6-9 p.m.	4
Computer Architecture	CANW 3101-301	09/04/2001	09/25/2001	6-9 p.m.	4
Computer Architecture (skip 11/21)	CANW 3101-302	11/07/2001	12/05/2001	6-9 p.m.	4
Computer Operating Systems	CANW 3102-300	10/08/2001	10/18/2001	6-9 p.m.	4
Network Operating Systems	CANW 4101-301	11/06/2001	11/15/2001	6-9 p.m.	4
Network Operating Systems	CANW 4101-302	12/08/2001	12/15/2001	9 a.m.-4 p.m.	2
Network Administration	CANW 5101-300	09/05/2001	09/26/2001	6-9 p.m.	4
Wide Area Networking Topics	CANW 5401-300	11/26/2001	12/10/2001	6-9 p.m.	3
Introduction to Windows 2000 Administration	CANW 2211-300	11/26/2001	12/06/2001	6-9 p.m.	4
Hands-On UNIX	CANW 1301-300	10/04/2001	11/01/2001	6-9 p.m.	5
Introduction to UNIX	CANW 2301-300	10/09/2001	10/30/2001	6-9 p.m.	7
Intermediate UNIX	CANW 3301-300	11/27/2001	12/11/2001	6-9 p.m.	5
UNIX System Administration (skip 11/20)	CANW 5301-300	11/06/2001	12/11/2001	6-9 p.m.	5
<b>Web...Course descriptions begin on page 49</b>					
Internet Fundamentals	CAWB 1001-301	09/05/2001	09/12/2001	6-9 p.m.	2
Internet Fundamentals	CAWB 1001-302	09/06/2001	09/06/2001	9 a.m.-4 p.m.	1
Internet Applications	CAWB 2101-301	09/05/2001	09/19/2001	6-9 p.m.	3
Internet Applications	CAWB 2101-302	09/10/2001	09/24/2001	6-9 p.m.	3
Internet Applications	CAWB 2101-303	09/13/2001	09/27/2001	6-9 p.m.	3
Internet Applications	CAWB 2101-304	09/15/2001	09/22/2001	9 a.m.-2:30 p.m.	2
Internet Applications	CAWB 2101-305	09/19/2001	10/03/2001	6-9 p.m.	3
Doing Business on the Internet	CAWB 2102-300	09/19/2001	10/03/2001	6-9 p.m.	3

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Design Techniques for Web Sites	CAWB 3101-301	09/12/2001	09/19/2001	9 a.m.-12 p.m.	2
Design Techniques for Web Sites	CAWB 3101-302	10/04/2001	10/11/2001	6-9 p.m.	2
Design Techniques for Web Sites	CAWB 3101-303	11/07/2001	11/14/2001	9 a.m.-12 p.m.	2
Design Techniques for Web Sites	CAWB 3101-304	12/06/2001	12/13/2001	6-9 p.m.	2
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-301	09/10/2001	10/01/2001	6-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-302	10/09/2001	10/30/2001	6-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-303	10/10/2001	10/31/2001	6-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-304	10/11/2001	11/01/2001	9 a.m.-12 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-305	10/15/2001	11/05/2001	6-9 p.m.	4
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-301	09/04/2001	09/18/2001	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML) (skip 11/21)	CAWB 3301-302	11/07/2001	11/28/2001	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML) (skip 11/19)	CAWB 3301-303	11/12/2001	12/03/2001	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML) (skip 11/20)	CAWB 3301-304	11/13/2001	12/04/2001	9 a.m.-12 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-305	11/27/2001	12/11/2001	6-9 p.m.	3
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-301	09/06/2001	09/27/2001	6-9 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-302	09/08/2001	09/29/2001	9 a.m.-12 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-303	09/08/2001	09/29/2001	2-5 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-304	09/10/2001	10/01/2001	9 a.m.-12 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-305	10/09/2001	10/30/2001	6-9 p.m.	4
Hypertext Mark-up Language Version 4	CAWB 5311-300	10/17/2001	10/24/2001	9 a.m.-12 p.m.	2
Introduction to JavaScript	CAWB 2701-301	10/06/2001	10/27/2001	9 a.m.-12 p.m.	4
Introduction to JavaScript	CAWB 2701-302	10/06/2001	10/27/2001	2-5 p.m.	4
Introduction to JavaScript	CAWB 2701-303	10/08/2001	10/29/2001	6-9 p.m.	4
Introduction to JavaScript (skip 10/31)	CAWB 2701-304	10/10/2001	11/07/2001	6-9 p.m.	4
JavaScript Language	CAWB 3701-301	09/15/2001	09/29/2001	9 a.m.-4 p.m.	3
JavaScript Language (skip 11/24)	CAWB 3701-302	11/03/2001	12/15/2001	9 a.m.-12 p.m.	6
JavaScript Language (skip 11/24)	CAWB 3701-303	11/03/2001	12/15/2001	2-5 p.m.	6
Web Site Design w/FrontPage 2000	CAWB 2411-301	10/22/2001	11/12/2001	9 a.m.-12 p.m.	4
Web Site Design w/FrontPage 2000 (skip 11/21)	CAWB 2411-302	11/14/2001	12/12/2001	6-9 p.m.	4
Motion Graphics Using Flash 5	CAWB 2511-301	10/08/2001	10/29/2001	9 a.m.-12 p.m.	4
Motion Graphics Using Flash 5	CAWB 2511-302	10/08/2001	10/29/2001	1-4 p.m.	4
Motion Graphics Using Flash 5 (skip 11/19)	CAWB 2511-303	11/12/2001	12/10/2001	6-9 p.m.	4
Advanced Motion Graphics Using Flash 5	CAWB 3511-301	09/04/2001	10/02/2001	9 a.m.-12 p.m.	5
Advanced Motion Graphics Using Flash 5 (skip 11/20)	CAWB 3511-302	11/06/2001	12/11/2001	6-9 p.m.	5
DreamWeaver 4	CAWB 2611-301	10/04/2001	10/25/2001	6-9 p.m.	4
DreamWeaver 4	CAWB 2611-302	10/09/2001	10/30/2001	6-9 p.m.	4
DreamWeaver 4 (skip 11/21)	CAWB 2611-303	11/07/2001	12/05/2001	6-9 p.m.	4
DreamWeaver 4 (skip 11/22)	CAWB 2611-304	11/15/2001	12/13/2001	9 a.m.-12 p.m.	4
Web Site Design Project	CAWB 9001-301	09/08/2001	10/06/2001	9 a.m.-12 p.m.	5
Web Site Design Project	CAWB 9001-302	09/08/2001	10/06/2001	2-5 p.m.	5
Web Site Design Project (skip 11/20)	CAWB 9001-303	11/06/2001	12/11/2001	6-9 p.m.	5

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

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Graphics...Course descriptions begin on page 53					
Windows Computer Art	CAGR 1011-300	09/05/2001	09/12/2001	6-9 p.m.	2
Macintosh Computer Art	CAGR 1021-300	09/06/2001	09/13/2001	6-9 p.m.	2
Photoshop for Windows (6.0) 98 Level I	CAGR 2111-301	09/17/2001	09/24/2001	9 a.m.-4 p.m.	2
Photoshop for Windows (6.0) 98 Level I	CAGR 2111-302	09/29/2001	10/06/2001	9 a.m.-4 p.m.	2
Photoshop for Windows (6.0) 98 Level I	CAGR 2111-303	10/18/2001	10/25/2001	9 a.m.-4 p.m.	2
Photoshop for Windows (6.0) 98 Level II	CAGR 3111-301	09/27/2001	10/04/2001	9 a.m.-4 p.m.	2
Photoshop for Windows (6.0) 98 Level II	CAGR 3111-302	10/30/2001	11/06/2001	9 a.m.-4 p.m.	2
Photoshop for Macintosh (6.0) Level I	CAGR 2121-301	09/17/2001	09/27/2001	6-9 p.m.	4
Photoshop for Macintosh (6.0) Level I	CAGR 2121-302	10/02/2001	10/23/2001	6-9 p.m.	4
Photoshop for Macintosh (6.0) Level II	CAGR 3121-300	10/04/2001	10/25/2001	6-9 p.m.	4
Illustrator for Windows (9.0) 98 Level I	CAGR 2211-300	10/03/2001	10/10/2001	9 a.m.-4 p.m.	2
Illustrator for Macintosh (9.0) Level I	CAGR 2221-300	09/22/2001	09/29/2001	9 a.m.-4 p.m.	2
Macromedia Director 6 Level I (skip 11/22)	CAGR 3321-300	11/08/2001	12/06/2001	6-9 p.m.	4
Multimedia Solutions	CAGR 3421-301	09/05/2001	09/26/2001	6-9 p.m.	4
Multimedia Solutions	CAGR 3421-302	10/15/2001	11/05/2001	6-9 p.m.	4
Programming...Course descriptions begins on page 55					
Introduction to Programming I	CAPR 1001-301	09/12/2001	09/20/2001	9 a.m.-4 p.m.	4
Introduction to Programming I (skip 9/24)	CAPR 1001-302	09/13/2001	10/09/2001	6-9 p.m.	6
Introduction to Programming II	CAPR 2101-301	10/03/2001	10/11/2001	9 a.m.-4 p.m.	4
Introduction to Programming II	CAPR 2101-302	11/03/2001	11/10/2001	9 a.m.-4 p.m.	5
Introduction to Programming III (skip 10/27)	CAPR 3101-300	10/13/2001	11/03/2001	9 a.m.-4 p.m.	3
Introduction to Application Programming	CAPR 2201-301	09/04/2001	09/27/2001	6-9 p.m.	8
Introduction to Application Programming (skip 11/19 and 22)	CAPR 2201-302	11/05/2001	12/06/2001	6-9 p.m.	8
Intermediate Application Programming	CAPR 3201-300	10/02/2001	11/06/2001	6-9 p.m.	6
Algorithm Design	CAPR 3202-300	09/05/2001	10/24/2001	6-9 p.m.	8
Introduction to Object-Oriented Programming in C++	CAPR 2102-300	10/08/2001	10/13/2001	6-9 p.m.	5
Intermediate/Advanced C++ Programming	CAPR 4101-300	11/05/2001	11/10/2001	6-9 p.m.	5
C++ Gotchas	CAPR 5101-300	11/12/2001	11/12/2001	9 a.m.-4 p.m.	1
Introduction to Object-Oriented Programming Using Java	CAPR 2601-300	09/04/2001	10/16/2001	6-9 p.m.	7
Java for O-O Experienced Programmers	CAPR 3601-300	10/22/2001	12/10/2001	6-9 p.m.	8
Advanced Java Programming Language Topics	CAPR 4601-300	09/10/2001	10/08/2001	6-9 p.m.	5
Advanced Java Library Topics	CAPR 4602-300	10/29/2001	11/26/2001	6-9 p.m.	5
Enterprise Java Beans (EJB) Overview	CAPR 4603-300	10/27/2001	11/03/2001	9 a.m.-4 p.m.	2
GUI Programming in Java	CAPR 5601-300	09/10/2001	10/22/2001	6-9 p.m.	7
Developing Web Applications in Java	CAPR 5602-300	09/11/2001	10/23/2001	6-9 p.m.	7
Java Servlets	CAPR 5603-300	10/20/2001	10/20/2001	9 a.m.-4 p.m.	1
Network Embedded Java Programming	CAPR 5604-300	12/01/2001	12/08/2001	9 a.m.-4 p.m.	2
Object-Oriented Design Patterns	CAPR 5401-300	11/03/2001	11/03/2001	9 a.m.-4 p.m.	1
Object-Oriented Analysis and Design	CAPR 5402-300	11/09/2001	11/10/2001	9 a.m.-5 p.m.	2
Introduction to Perl for Programmers	CAPR 2701-300	10/18/2001	11/15/2001	6-9 p.m.	5
Extensible Markup Language (XML)	CAPR 3701-300	10/25/2001	11/15/2001	6-9 p.m.	4
Introduction to Hands-On Visual Basic Programming	CAPR 2301-300	09/10/2001	10/08/2001	6-9 p.m.	5
Intermediate Hands-On Visual Basic Programming	CAPR 3301-300	10/27/2001	11/10/2001	9 a.m.-4 p.m.	3
Introduction to Software Project Management	CAPR 5501-300	09/17/2001	10/08/2001	6-9 p.m.	4

COMPUTER  
APPLICATIONSComputer Literacy  
CAAP 1001

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

*Pat Melton, B.A.*

Section 300: Tuesday, September 4, 6-8 p.m. Tuesdays, September 11-October 2, 6-9 p.m. There are one lecture, two Macintosh labs and two PC labs. The first three sessions, September 4-18, will be held in Humanities 1B35, the last two sessions, September 25-October 2, will be held in Humanities 1B45. 5 sessions. \$200.

Windows 95 Level I  
CAAP 2111

This course introduces the student to the function and use of the Windows operating system. Starting with the basic use of a mouse, the course teaches the student how to operate different types of windows and dialogue boxes, how to locate and perform file/folder operations. The course explores the use of Windows application programs and the use of the Windows clipboard to share information within and between different files. This course also covers the steps needed to set up printers and configure/customize the computer system. The class is loaded with tips and tricks on how to get the most out of the day-to-day operation of Windows. At the end of the course the student should feel comfortable operating and navigating the Microsoft Windows environment.

**Prerequisite:** CAAP 1001 Computer Literacy or equivalent.

*Lisa Kelly, B.A.*

Section 300: Wednesday, September 5, 9 a.m.-4 p.m. 1 session. University Computing Center 127. \$209.

Windows 98 Level I  
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:** CAAP 1001 Computer Literacy or equivalent.

*Lisa Kelly, B.A.*

Section 300: Tuesday, October 9, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$209.

Word 97 (8.0) Level I  
CAAP 2211

Learn to create, edit and print documents. Learn various techniques for selecting text in order to move, copy and delete text; and changing font, point size and attributes (bold, italics, etc.). Other topics include inserting special symbols, creating bulleted and numbered paragraphs, changing margins, setting tabs, using spell check and the help system. Explore the integrated features including extended filenames, enhanced auto correct and many other shortcuts and "tips 'n tricks." **Prerequisite:** CAAP 2111 Windows 95 Level I or equivalent.

*Jeff Schatz, B.A.*

Section 300: Monday and Thursday, October 15 and 18, 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.

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 2111 Windows 95 Level I or CAAP 2121 Windows 98 Level I or equivalent.

*Issy Kilbride*

Section 300: Tuesdays, September 11 and 18, 9 a.m.-2:30 p.m. 2 sessions. University Computing Center 127. \$241.

Excel 97 (8.0) Level I  
CAAP 2311

Learn basic spreadsheet design and construction, file management, formulas, functions, worksheet editing, data formatting, and printing. Become comfortable navigating Excel on your own to avoid memorizing limited basic tasks. Explore time saving shortcuts, simple graphing, and quick ways to create a "professional" appearance. **Prerequisite:** CAAP 2111 Windows 95 Level I or equivalent.

*Jeff Schatz, B.A.*

Section 300: Monday, September 10, 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.



# COMPUTER APPLICATIONS

*(Computer Applications continued)*

## Excel 97 (8.0) Level II CAAP 3311

Learn to protect cell data by locking just some of the cells or the entire worksheet. Learn how to make formulas "absolute", and understand what a circular reference is. Explore all the possibilities in working with multiple sheets: Selecting/deselecting for group mode, and formatting and/or creating formulas within a group of selected sheets. Learn about charting and creating/editing a separate chart sheet or an embedded chart. Work with the Date Format; understand and use templates; customize the toolbar and have fun with loads of shortcuts and "tips 'n tricks!" **Prerequisite: CAAP 2311 Excel 97 Level I** or equivalent.

*Lisa Kelly, B.A.*

Section 300: Monday, September 17, 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 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 2111 Windows 95 Level I or CAAP 2121 Windows 98 Level I** or equivalent.

*Issy Kilbride*

Section 300: Thursday, September 6, 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 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 is also covered in this course. **Prerequisite: CAAP 2321 Excel 2000 Level I** or equivalent.

*Chris Mattson, B.S.*

Section 300: Thursday, September 20, 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 97 (8.0) Level I CAAP 2411

This course is designed for those who are new to Microsoft Access and databases in general or who have been attempting to use Access but need more information. Students will learn database terminology and how it relates to Access, instruction on database design concepts and methods, and Access objects and their uses. Students will learn to store data, sort, select, and manipulate the data, display the data on the screen and in printed reports. Data storage, entry, and retrieval objectives are discussed throughout the course. Special emphasis is placed on proper data creation and storage (tables), and retrieval of that data (queries). The mechanics of forms and reports are also highlighted. **Prerequisite: CAAP 2111 Windows 95 Level I** or equivalent.

*Issy Kilbride*

Section 300: Thursdays, September 13 and 20, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127. \$261.

## 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 an Access database. 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 Access 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 Access techniques such as importing/exporting of data, relational theory and finding specific information using the help system. Along the way the class also covers all of the shortcuts, tips/tricks, dos and don'ts. Whether you're new to databases or have expertise in another database application, this course will give you everything you need to know to hit the ground running with Access. **Prerequisite: CAAP 2111 Windows 95 Level I or CAAP 2121 Windows 98 Level I** or equivalent.

*Chris Mattson, B.S.*

Section 300: Tuesdays, October 2 and 9, 9 a.m.-4 p.m. 2 sessions. University Computing Center 127. \$261.





## 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 300: Monday, October 29, 9 a.m.-4 p.m. 1 session. University Management Systems 001. \$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 2411 Access 97 Level I or equivalent and a good working knowledge of the Windows 95 interface. A basic understanding of Excel for Windows is recommended.

*Chris Mattson, B.S.*

Section 300: Wednesdays, November 7 and 14, 9 a.m.-4 p.m. 2 sessions. University Management Systems 001. \$261.

## 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 2411 Access 97 Level I or previous experience with databases.

*Douglas Smith, B.S.*

Section 300: Mondays and Wednesdays, October 1-29, 6-8 p.m. 9 sessions. University Management Systems 001. \$285.

## AutoCAD Level I CAAP 2511

This course will focus on the 2D drafting features of AutoCAD with an emphasis on setting up new drawings including units, limits, scaling, layers, basic drawing construction and editing techniques. You will also learn how to create basic symbol blocks, cross hatch, and introduction to plotting to hard copy. **Prerequisite:** CAAP 2111 Windows 95 Level I or equivalent. Some understanding of drafting concepts/techniques is helpful. **Required text:** *AutoCAD 2000, No Experience Required*, David Frey.

*Michael George, BEnvd BArch*

Section 300: Mondays, September 24-October 29, 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$390.

## 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 2111 Windows 95 Level I or CAAP 2121 Windows 98 Level I or equivalent.

*Nate Ahrens, B.A.*

Section 301: Tuesdays, September 11-October 2, 6-9 p.m.

Section 302: Wednesdays, October 10-31, 6-9 p.m.

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

### Computer 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. This course 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 2111 Windows 95 Level I or working knowledge of the Macintosh or equivalent.

*Chris Mattson, B.S.*

Section 300: Tuesdays, September 11-October 2, 6-9 p.m. 4 sessions. University Computing Center 127. \$248.

# COMPUTER APPLICATIONS

(Networking continued)

## 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 301: Tuesdays, September 4-25, 6-9 p.m.

Section 302: Wednesdays, November 7-December 5 (skip November 21), 6-9 p.m.

All Sections: 4 sessions. University Computing Center 123. \$248.

## Computer Operating Systems

### CANW 3102

This course deals with the major network client workstations. The lecture portion of the course compares and contrasts the components, functionality, and architecture of the Windows, Macintosh, Linux and UNIX workstation operating systems. In the lab portion, students learn about installing and configuring the operating systems and how to maintain them in fully functional workstations. **Prerequisite:** CANW 2101 **Computer Systems Overview** or equivalent. **Required text:** *Crossing Platforms: A Macintosh/Windows Phrasebook*, Engst and Pogue.

Marc Lafavor, B.S.

Section 300: Mondays and Thursdays, October 8-18, 6-9 p.m. 4 sessions. Mondays in University Computing Center 123 and Thursdays in University Computing Center 127. \$248.

## Network Operating Systems

### CANW 4101

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

**Prerequisite:** CANW 3102 **Computer Operating Systems** or equivalent. **Required text:** *Using Networks*, Derfler.

Marc Lafavor, B.S.

Section 301: Tuesdays and Thursdays, November 6-15, 6-9 p.m. 4 sessions. Tuesdays in University Computing Center 123 and Thursdays in University Computing Center 127.

Section 302: Saturdays, December 8 and 15, 9 a.m.-4 p.m. 2 sessions. Morning lectures and afternoon labs. University Computing Center 127.

All Sections: \$248.

## Network Administration

### CANW 5101

Lecture and lab. The lecture portion provides information about network management skills, including setting up user groups and access privileges, maintaining security, backup strategies, as well as sharing printers and other network resources. In lab, students learn troubleshooting techniques and how to solve and prevent network problems.

**Prerequisite:** CANW 4101 **Network Operating Systems** or equivalent.

Shayn Smith, Ph.D., CNE

Section 300: Wednesdays, September 5-September 26, 6-9 p.m. 4 sessions. September 5 and 19 in University Computing Center 123 and September 12 and 26 in University Computing Center 127. \$248.

## Wide Area Networking Topics

### CANW 5401

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

**Prerequisite:** CANW 4101 **Network Operating Systems** or equivalent.

Paul Welding, B.S.

Section 300: Mondays, November 26-December 10, 6-9 p.m. 3 sessions. University Computing Center 123. \$220.

## Introduction to Windows 2000 Administration

### CANW 2211

A technical hands-on course focusing on concepts necessary for migrating from Windows NT 4.0 to Windows 2000. 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 300: Mondays and Thursdays, November 26-December 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.



## Hands-On UNIX 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 command shells.

Advanced topics will touch on customization of the user's environment, shell variables and basic programming concepts. The student will be introduced to the many UNIX-like operating systems offered by a variety of vendors, highlighting the major similarities and differences. **Prerequisite: CAAP 1001 Computer Literacy** or equivalent.

*James Lupo, Ph.D.*

Section 300: Thursdays, October 4-November 1, 6-9 p.m. 5 sessions. University Management Systems 001. \$380.

## Introduction to UNIX CANW 2301

This is a course for anyone who needs to use UNIX, program in its environment, manage users, or obtain sufficient knowledge to evaluate it. In this lecture-based 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: CAAP 1001 Computer Literacy** or equivalent.

*Craig McBride, M.B.A.*

Section 300: Tuesdays and Thursdays, October 9-30, 6-9 p.m. 7 sessions. University Computing Center 123. \$410.

## Intermediate UNIX CANW 3301

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

*Craig McBride, M.B.A.*

Section 300: Tuesdays and Thursdays, November 27-December 11, 6-9 p.m. 5 sessions. University Computing Center 123. \$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." **Prerequisites: CANW 3301 Intermediate UNIX** or equivalent, giving the student an intermediate user's level knowledge of file ownerships, directories, permissions, basic commands and editors.

*James Lupo, Ph.D.*

Section 300: Tuesdays, November 6-December 11 (skip November 20), 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: CAAP 1001 Computer Literacy** or equivalent.

*Lorraine Revelle, B.A.*

Section 301: Wednesdays, September 5 and 12, 6-9 p.m. 2 sessions. Humanities 1B45.

*Jeff Schatz, B.A.*

Section 302: Thursday, September 6, 9 a.m.-4 p.m. 1 session. University Management Systems 001.

All Sections: \$209.



Paul Markus thinks the Computer Applications classes offered at CU-Continuing Education are a gold mine. Paul works as an IT professional for a PC board manufacturer in Boulder. He's currently working on his certificate in Network Administration through the Computer Applications Program. "I think these classes are a big help. I'm surprised more people don't take advantage of the resources here."



*(Web continued)***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 301: Wednesdays, September 5-19, 6-9 p.m. 3 sessions. University Management Systems 001.

Section 302: Mondays, September 10-24, 6-9 p.m. 3 sessions. University Management Systems 001.

*Rachelle Johnson*

Section 303: Thursdays, September 13-27, 6-9 p.m. 3 sessions. Humanities 1B45.

Section 304: Saturdays, September 15 and 22, 9 a.m.-2:30 p.m. 2 sessions. University Management Systems 001.

*Chris Mattson, B.S.*

Section 305: Wednesdays, September 19-October 3, 6-9 p.m. 3 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: \$228.

**Doing Business on the Internet  
CAWB 2102**

"E-commerce": Learn the fundamentals for marketing and operating your business on-line. Topics include conceptualizing, planning, organizing and implementing an Internet store. Case studies will be reviewed that demonstrate both successful and unsuccessful business models and technical approaches as applied to marketing your product or service on the Internet.

**Prerequisite:** CAWB 1001 **Internet Fundamentals** or equivalent.

*Paul Welding, B.S.*

Section 300: Wednesdays, September 19-October 3, 6-9 p.m. 3 sessions. Humanities 1B45. \$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 301: Wednesdays, September 12 and 19, 9 a.m.-12 p.m. University Computing Center 127.

*Rachelle Johnson*

Section 302: Thursdays, October 4 and 11, 6-9 p.m. Humanities 1B45.

*Beth Sigren, B.S.*

Section 303: Wednesdays, November 7 and 14, 9 a.m.-12 p.m. University Computing Center 127.

*Rachelle Johnson*

Section 304: Thursdays, December 6 and 13, 6-9 p.m. University Computing Center 127.

All Sections: 2 sessions. \$215.

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

Learn how to create web sites from the ground up! Topics include formatting tags, lists, links, images and tables. We will also cover meta tags, coding techniques and offer web-site design tips to make functional and exciting web pages. **Prerequisites:** CAAP 2111 **Windows 95 Level I** or CAAP 2121 **Windows 98 Level I** 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 301: Mondays, September 10-October 1, 6-9 p.m. Humanities 1B45.

*Rachelle Johnson*

Section 302: Tuesdays, October 9-30, 6-9 p.m. University Computing Center 127.

*Leonard Barrett, B.S.*

Section 303: Wednesdays, October 10-31, 6-9 p.m. University Computing Center 127.

*Karis Vail Schmidt, B.A.*

Section 304: Thursdays, October 11-November 1, 9 a.m.-12 p.m. University Computing Center 127.

*Ginny Figlar, M.A.*

Section 305: Mondays, October 15-November 5, 6-9 p.m. University Computing Center 127.

All Sections: 4 sessions. \$255.



After working in administration for 15 years, Andrea Pappas recently switched over to IT. Since she doesn't have an educational background in IT, Andrea is getting a certificate in Network Administration to back up the experience she already has. "If you're not going back to school for a degree, the certificate program is a good, hands-on alternative." Andrea also enjoys getting to know the people in her classes. "There's a lot of comradery among the students. We're all going down the same educational track, but for different reasons. I like hearing their stories."

### 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 301: Tuesdays, September 4-18, 6-9 p.m. Humanities 1B45.

*Rachelle Johnson*

Section 302: Wednesdays, November 7-28 (skip November 21), 6-9 p.m. University Management Systems 001.

*Karis Vail Schmidt, B.A.*

Section 303: Mondays, November 12-December 3 (skip November 19), 6-9 p.m. Humanities 1B45.

Section 304: Tuesdays, November 13-December 4 (skip November 20), 9 a.m.-12 p.m. University Computing Center 127.

*Rachelle Johnson*

Section 305: Tuesdays, November 27-December 11, 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.

*Joyce E. Evans, B.A.*

Section 301: Thursdays, September 6-27, 6-9 p.m. University Computing Center 127.

*Susan Walanski, B.A.*

Section 302: Saturdays, September 8-29, 9 a.m.-12 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 303: Saturdays, September 8-29, 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).

*Karis Vail Schmidt, B.A.*

Section 304: Mondays, September 10-October 1, 9 a.m.-12 p.m. University Computing Center 127.

*Beth Sigren, B.S.*

Section 305: Tuesdays, October 9-30, 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: 4 sessions. \$255.

### 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 300: Wednesdays, October 17 and 24, 9 a.m.-12 p.m. 2 sessions. 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 301: Saturdays, October 6-27, 9 a.m.-12 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Section 302: Saturdays, October 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).

Section 303: Mondays, October 8-29, 6-9 p.m. Humanities 1B45.

Section 304: Wednesdays, October 10-November 7 (skip October 31), 6-9 p.m. Humanities 1B45.

All Sections: 4 sessions. \$255.

*(Web continued)***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 301: Saturdays, September 15-29, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127.

Section 302: Saturdays, November 3-December 15 (skip November 24), 9 a.m.-12 p.m. 6 sessions. Humanities 1B45.

Section 303: Saturdays, November 3-December 15 (skip November 24), 2-5 p.m. 6 sessions. Humanities 1B45.

All Sections: \$306.

**Web Site Design with  
FrontPage 2000  
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 2111 Windows 95/CAAP 2121 Windows 98 and CAWB 1001 Internet Fundamentals or equivalent.

*Karis Vail Schmidt, B.A.*

Section 301: Mondays, October 22-November 12, 9 a.m.-12 p.m.

Section 302: Wednesdays, November 14-December 12 (skip November 21), 6-9 p.m.

All Sections: 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$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 3421 Multimedia Solutions or equivalent. **Required text:** *Flash 5: Creative Web Animation*, Derek Franklin and Brooks Patton.

*Mary McGivern, B.A.*

Section 301: Mondays, October 8-29, 9 a.m.-12 p.m.

Section 302: Mondays, October 8-29, 1-4 p.m.

*William Busch*

Section 303: Mondays, November 12-December 10 (skip November 19), 6-9 p.m.

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

**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.

*Mary McGivern, B.A.*

Section 301: Tuesdays, September 4-October 2, 9 a.m.-12 p.m.

*William Busch*

Section 302: Tuesdays, November 6-December 11 (skip November 20), 6-9 p.m.

All Sections: 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). \$305.

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

## Using Macromedia DreamWeaver 4 to Create Web Sites 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 3301 Intermediate HTML or equivalent. **Required text:** *DreamWeaver 4 for Windows and Macintosh: Visual Quick Start Guide*, J. Tarin Towers.

*William Busch*

Section 301: Thursdays, October 4-25, 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).

*Jeff Braunstein, M.S.*

Section 302: Tuesdays, October 9-30, 6-9 p.m. Humanities 1B45.

Section 303: Wednesdays, November 7-December 5 (skip November 21), 6-9 p.m. University Computing Center 127.

*Tim Meehan*

Section 304: Thursdays, November 15-December 13 (skip November 22), 9 a.m.-12 p.m. University Computing Center 127.

All Sections: 4 sessions. \$285.

## 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 301: Saturdays, September 8-October 6, 9 a.m.-12 p.m.

Section 302: Saturdays, September 8-October 6, 2-5 p.m.

Section 303: Tuesdays, November 6-December 11 (skip November 20), 6-9 p.m.

All Sections: 5 sessions. Humanities 1B45. \$295.

## GRAPHICS

### Windows Computer Art CAGR 1011

This course is an overview of the various Windows-based graphics 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 graphics knowledge or skill. **Prerequisite:** CAAP 2111 Windows 95 Level I or equivalent.

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

Section 300: Wednesdays, September 5 and 12, 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). \$184.

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

*Barry Ratliff, M.F.A.*

Section 300: Thursdays, September 6 and 13, 6-9 p.m. 2 sessions. Humanities 1B35. \$184.

Digital photography course  
available through Personal  
Enrichment, page 34.



Andrea Menken works as an account management assistant for a local computer consulting company. Her goal is to become a computer consultant, so she's taking classes through Continuing Education at CU to get her certificate in Network Administration. Andrea appreciates the fact that certificate programs are constantly evaluated and improved to keep them in line with the fast-paced computer industry. "The classes offered are relevant to real-world jobs."

# COMPUTER APPLICATIONS

*(Graphics continued)*

## Photoshop for Windows 98 (6.0) Level I CAGR 2111

This course provides the student an introduction to Photoshop, which is the premier photo editing application. Learn basic skills in scanning techniques and how to best capture your photos. The basic skills of photo editing and the tools used in Photoshop will be covered. Special attention will be given to web site requirements and how to move your photos from a photographic product to the Web.

**Prerequisite:** CAGR 1011 Windows Computer Art or equivalent

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

Section 301: Mondays, September 17 and 24, 9 a.m.-4 p.m.

Section 302: Saturdays, September 29 and October 6, 9 a.m.-4 p.m.

*Leonard Barrett, B.S.*

Section 303: Thursdays, October 18 and 25, 9 a.m.-4 p.m.

All Sections: University Management Systems 001. 2 sessions. \$261.

## Photoshop for Windows 98 (6.0) Level II CAGR 3111

Students will learn advanced photo editing techniques. The Tools used in Photoshop will be reviewed. Both Prepress and web output will be discussed. A practical layout will be covered. Hands-on work with ImageReady will be covered. **Prerequisite:** CAGR 2111 Photoshop for Windows 98 Level I or equivalent.

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

Section 301: Thursdays, September 27 and October 4, 9 a.m.-4 p.m. University Computing Center 127.

*Leonard Barrett, B.S.*

Section 302: Tuesdays, October 30 and November 6, 9 a.m.-4 p.m. University Management Systems 001.

All Sections: 2 sessions. \$261.

## Photoshop for Macintosh (6.0) Level I CAGR 2121

Learn to use "standard photographic manipulation" of electronic images and how to create special effects using filters, paint tools, masking and image overlay. In addition, investigate output options such as color proofs and separations. **Prerequisite:** CAGR 1021

**Macintosh Computer Art** or equivalent.

**Recommended text:** *Adobe Photoshop 6.0 Classroom in a Book*, Adobe Press.

*Tim Meehan*

Section 301: Mondays and Thursdays, September 17-27, 6-9 p.m.

Section 302: Tuesdays, October 2-23, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B35. \$261.

## Photoshop for Macintosh (6.0) Level II CAGR 3121

Expand your knowledge of this application by gaining a greater understanding of its use from a production point of view. Learn pre-press techniques and quality control that can help avoid costly mistakes and time consuming duplication. **Prerequisite:** CAGR 2121 Photoshop for Macintosh Level I or equivalent. **Recommended text:** *Adobe Photoshop 6.0 Studio Techniques*, Adobe Press.

*Tim Meehan*

Section 300: Thursdays, October 4-25, 6-9 p.m. 4 sessions. Humanities 1B35. \$261.

## Illustrator for Windows 98 (9.0) Level I

### CAGR 2211

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

**Prerequisite:** CAGR 1011 Windows Computer Art or equivalent.

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

Section 300: Wednesdays, October 3 and 10, 9 a.m.-4 p.m. 2 sessions. University Management Systems 001. \$261.

## Illustrator for Macintosh (9.0) Level I CAGR 2221

This course offers students an extensive introduction to Illustrator. The student will learn to create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Work can be printed as proofs or separations on paper or film, exported as EPS documents to page layout programs or taken directly into Adobe Photoshop. Class includes hands-on practice exercises. **Prerequisite:** CAGR 1021

**Macintosh Computer Art** or equivalent.

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

*Rick Hoyt, B.S.*

Section 300: Saturdays, September 22 and 29, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$261.

## Macromedia Director (6) Level I CAGR 3321

Learn the production of interactive multimedia presentations, including animation, still graphics, voice and sound, text and video. A host of other graphics and sound software will be used. Emphasis will be on high quality presentations and finished productions that will run on both Macintosh and PC platforms. **Prerequisite:** CAGR 1021 Macintosh Computer Art, CAGR 1011 Windows Computer Art, or equivalent. You must have some proficiency in using a Macintosh as this course will be taught in a Macintosh lab. However, the applications are consistent on both the PC and Macintosh platforms.

*William Busch*

Section 300: Thursdays, November 8-December 6 (skip November 22) 6-9 p.m. 4 sessions. Humanities 1B35. \$260.



## 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

### Macintosh Computer Art, CAGR 1011

**Windows Computer Art** or equivalent. You must have some proficiency in using a Macintosh as 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 301: Wednesdays, September 5-26, 6-9 p.m.

Section 302: Mondays, October 15-  
November 5, 6-9 p.m.

All Sections: 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 2111 Windows 95

**Level I** 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 301: Wednesdays, September 12 and 19, Monday, September 17, and Thursday, September 20, 9 a.m.-4 p.m. 4 sessions. University Computing Center 123.

Section 302: Thursdays, September 13 and October 4, 6-9 p.m., Saturdays, September 15 and October 6, 9 a.m.-4 p.m., Tuesdays, September 18 and October 9, 6-9 p.m. (skip week of September 24). 6 sessions. Hellems 263.

All Sections: \$440.

### 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 301: Wednesdays, October 3 and 10, Monday, October 8, Thursday, October 11, 9 a.m.-4 p.m. 4 sessions.

Section 302: Saturdays, November 3 and 10, 9 a.m.-4 p.m., Monday, November 5, 6-9 p.m., Tuesday, November 6, 9 a.m.-4 p.m., Thursday, November 8, 6-9 p.m. 5 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). \$440.



Rich Lutes is working on his certificate in Network Administration from Continuing Education at CU. He hopes the certificate will open the door for career advancement. Rich recently finished a class in Wide Area Networks. He thinks the instructor was effective because he covered a lot of real-world scenarios and helped the students design actual networks in class. "I've enjoyed the classes I've taken at CU. It's convenient and close, and I've had a good experience with the classes so far."

*(Programming continued)***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 300: Saturdays, October 13-November 3 (skip October 27), 9 a.m.-4 p.m. 3 sessions. University Management Systems 001. \$440.

**Introduction to Application Programming**  
CAPR 2201

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++. No programming experience is required but recommended. **Prerequisite:** CAAP 2111 **Windows 95 Level I** or equivalent. **Recommended text:** *Problem Solving With C++*, 3rd Edition, Savitch.

*Tom Harrold, Ed.D.*

Section 301: Tuesdays and Thursdays, September 4-27, 6-9 p.m.

*Steve Kaminski, MSEE*

Section 302: Mondays and Thursdays, November 5-December 6 (skip November 19 and 22), 6-9 p.m.

All Sections: 8 sessions. University Management Systems 001. \$440.

**Intermediate Application Programming**  
CAPR 3201

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

*Steve Kaminski, MSEE.*

Section 300: Tuesdays, October 2-November 6, 6-9 p.m. 6 sessions. University Management Systems 001. \$415.

**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 3101 **Introduction to Programming III** or CAPR 2201 **Introduction to 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 knowledge of at least high-school level algebra.

*David Corbin, M.S.*

Section 300: Wednesdays, September 5-October 24, 6-9 p.m. 8 sessions. Continuing Education Center, Room 140 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$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.

*Kyle Klicker, M.S.*

Section 300: Monday-Thursday, October 8-11, 6-9 p.m. and Saturday, October 13, 9 a.m.-4 p.m., 5 sessions. Humanities 145. \$440.



## 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.

*Kyle Klicker, M.S.*

Section 300: Monday-Thursday, November 5-8, 6-9 p.m. and Saturday, November 10, 9 a.m.-4 p.m. 5 sessions. Clare Small Arts and Sciences 208. \$495.

## C++ Gotchas


CAPR 5101 

Production C++ programming is complicated by numerous features of the language that behave or interact in unexpected ways - "the Gotchas". Gotchas appear in all parts of the language. They affect the correctness, efficiency and portability of C++ software and may cost programmers additional development time to track down obscure bugs. A modest investment in understanding the Gotchas will repay itself many times over. This one-day lecture class presents a collection of over 50 Gotchas (and techniques for avoiding them) from different parts of the language, including constructors and destructors, function and operator overloading, scope, access control, arrays, const, references, inheritance and virtual functions, type-safe linkage, operators new and delete, initialization, multiple inheritance, virtual base classes and templates. **Prerequisite:** CAPR 4101 **Intermediate/Advanced C++ Programming** or equivalent. **Recommended texts:** *Effective C++*, Scott Meyers, and *More Effective C++*, Scott Meyers.

*Kyle Klicker, M.S.*

Section 300: Monday, November 12, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$200.

## 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. **Prerequisite:** 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. **Recommended text:** *Just Java*, Peter van der Linden.

*Carol J. Meier, M.S.*

Section 300: Tuesdays, September 4-October 16, 6-9 p.m. 7 sessions. Humanities 135. \$490.

## 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.

*Richard Wolniewicz, Ph.D.*

Section 300: Mondays, October 22-December 10, 6-9 p.m. 8 sessions. Humanities 1B80. \$495.



*(Programming continued)***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.

*David Rodenbaugh*


Section 300: Mondays, September 10-October 8, 6-9 p.m. 5 sessions. Humanities 125. \$440.

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

*George Watson*


Section 300: Mondays, October 29-November 26, 6-9 p.m. 5 sessions. Humanities 335. \$440.

**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*


Section 300: Saturdays, October 27 and November 3, 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 300: Mondays, September 10-October 22, 6-9 p.m. 7 sessions. Humanities 180. \$495.

**Developing Web Applications in Java****CAPR 5602** 

This courses 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. Web applications 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 300: Tuesdays, September 11-October 23, 6-9 p.m. 7 sessions. Humanities 250. \$495.

**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 300: Saturday, October 20, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$200.



## 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, <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

<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 Topic or equivalent.

*George Watson*

Section 300: Saturdays, December 1 and 8, 9 a.m.-4 p.m. 2 sessions. Humanities 245. \$415.

## 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.

*Richard Wolniewicz, Ph.D.*

Section 300: Saturday, November 3, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$200.

## 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.

*Paul Jensen, M.S.*

Section 300: Friday and Saturday, November 9 and 10, 9 a.m.-5 p.m. 2 sessions. University Computing Center 123. \$495.

## Introduction to Perl for Programmers


CAPR 2701

This introduction to the Perl language is intended for students who have had some programming experience. This course is not intended to teach general programming concepts; therefore, students should be familiar with general programming concepts such as variables, statements, parameter passing and the idea of modularized code (i.e. functions/subroutines/methods). This class teaches Perl 5. As it is only an introduction to Perl, the time that is spent covering each topic in the outline is limited and only meant to be an introduction. Additionally, we will not be covering advanced topics such as working with modules. **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 300: Thursdays, October 18-November 15, 6-9 p.m. 5 sessions. Humanities 1B45. \$440.



*(Programming continued)***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 Web. 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 300: Thursdays, October 25-November 15, 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 2111 Windows 95 Level I** or a working knowledge of Windows.

*David Nelson, B.S.*


Section 300: Mondays, September 10-October 8, 6-9 p.m. 5 sessions. University Computing Center 127. \$400.

**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 300: Saturdays, October 27-November 10, 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** or equivalent. **Recommended text:** *Software Project Survival Guide*, Steve McConnell.

*Richard Wolniewicz, Ph.D.*

Section 300: Mondays, September 17-October 8, 6-9 p.m. 4 sessions. Stadium 140. \$395.



As a network analyst in the telecommunications industry, Scott Buchholz troubleshoots fiber optic networks. He's currently working toward a certificate in Network Administration from Continuing Education at CU. "The certificate will broaden my experience and give me more flexibility with my career." Scott sees great value in the certificates offered through the Computer Applications Program. "The hours are convenient, the cost is reasonable, and the instructors are quite knowledgeable."



# 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 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 also offers the courses required to upgrade your license to the **independent broker** or **employing broker** levels and offers continuing education courses toward license renewal.

## NEW APPRAISAL LICENSES

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

Please contact the Colorado Board of Real Estate Appraisers at 303-894-2166 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 also offers all of the required courses to upgrade to the **Licensed, Certified Residential** and **Certified General** license levels.



For additional information, course dates, locations, registration, request a Real Estate and Appraisal catalog:

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

Or visit the web site:  
[www.colorado.edu/conted/RealEstate/](http://www.colorado.edu/conted/RealEstate/)

WELCOME



## SPECIAL PROGRAMS

### INTERNATIONAL ENGLISH CENTER

In addition to its intensive, full-time program for international students, the International English Center (IEC) provides evening classes in English as a second language for community residents or interested visitors from other countries. Meeting on Mondays and Wednesdays at a cost of \$280 (text included) for seven weeks, the classes are offered at three different proficiency levels - beginning, intermediate and advanced. Courses in practical writing and pronunciation are offered on Tuesdays and Thursdays for \$350 for seven weeks. For registration information, visit the IEC at 1030 13th Street or call 303-492-5547.

**Beginning Level (NCFL 900)** MW 6:30-8:30 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 advance written expression, grammar and mechanics. In addition, this course provides instruction on informal letters, business letters, application forms, and other everyday writing needs, and cultivates a better understanding of formal and informal writing styles and conventions. Note: The student will receive individual assessment of writing skills and receive attention with individual needs.



web: [www.colorado.edu/iec](http://www.colorado.edu/iec)  
email: [ieccu@colorado.edu](mailto:ieccu@colorado.edu)

### 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 executive development and business education, including the Colorado Executive Development in Residence (CEDIR) program and the CU Business Intensive Certificate (CUBIC) program.

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. 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.

The **CU Business Intensive Certificate (CUBIC)** program offers non-business undergraduate students a unique opportunity to learn fundamental business skills. Majors from Anthropology to Engineering have found the CUBIC program enhances their degrees and gives them a competitive edge in the job market.



For more information on these programs please visit our web site at [bus.colorado.edu/cbe](http://bus.colorado.edu/cbe) or call 303-735-1246.

*Learn. Grow. Become.*





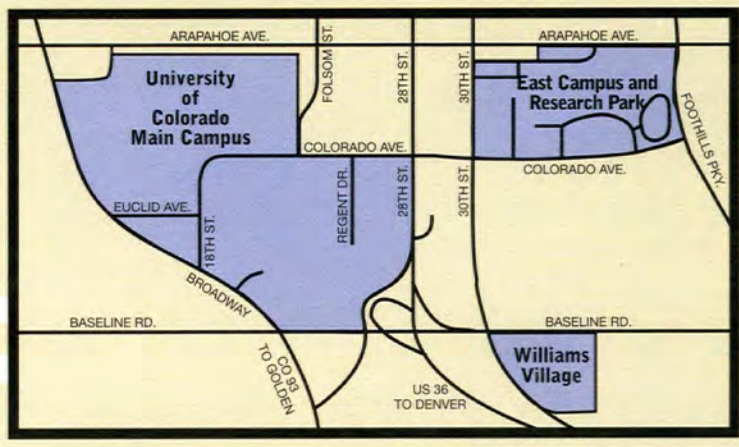
**University Buildings**

1. Armory (D-4)
2. Balch Fieldhouse (E-7)
3. Benson Earth Sciences Building (F-9)
4. Business (H-10)
5. Carlson Gymnasium (E-7)
6. Center for Astrophysics and Space Astronomy (L-4)
7. Clare Small Arts and Sciences (D-6)
8. College Inn Conference Center (B-5)
9. Communication Disorders and Speech Science (I-11)
10. Computing Center (J-3)
11. Continuing Education (D-2)
12. Cooperative Institute for Research in Environmental Sciences (CIRES) (F-5)
13. Coors Events/Conference Center (I-12)
14. Cottage No. 1 (F-3)
15. Cristol Chemistry (G-5)
16. Dal Ward Athletic Center (D-8)
17. Denison Laboratory (G-4)
- \* Duane Physical Laboratories (F-7). See Duane Physics and Astrophysics, Gamow Tower, Laboratory for Atmospheric and Space Physics, and Joint Institute for Laboratory Astrophysics.
18. Duane Physics and Astrophysics (F-7)
19. Economics (F-3)
20. Education (G-4)
21. Ekeley Sciences (F-5)
22. Engineering Center (F/G-10/11)
23. Environmental Design (G-7)
24. Euclid Avenue Autopark (G-6)
25. Family Housing Children's Center- Main Offices (A-9)
26. Family Housing Children's Center- Colorado Court (L-2)
27. Fiske Planetarium and Science Center (J-10)
28. Fleming Law (K-10)
29. Folsom Stadium (E-8)
30. Gamow Tower (F-7)
31. Geology (G-3)
32. Grounds and Service Center (D-9)
33. Guggenheim Geography (F-3)
34. Hale Science (E-3)
35. Health Physics Laboratory (D-9)
36. Hellems Arts and Sciences/Mary Rippon Theatre (G-4)
37. Henderson Museum, University of Colorado Museum of Natural History (G-4)
38. Housing System Maintenance Center (K-3)
39. Housing System Service Center (J-3)
40. Humanities Building (E-5)
41. Hunter Science (F-6)
42. Imig Music (H-7)
43. Institute for Behavioral Genetics (K-1)
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During any special event, Continuing Education students shall present their registration receipt to obtain parking at no extra charge (Parking Regulation III-D-6a).  
 Continuing Education students may also purchase parking permits from Parking Services for an additional fee.  
 University meters are enforced between 7:00 a.m. and 5:00 p.m. seven days a week, including Saturdays and Sundays.  
 Based on map produced by Student Affairs Communications.



## REGISTRATION BEGINS AUGUST 6!

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

### 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                       Female                      Hispanic origin                       Other State                      For identification purposes. If you wish to claim continuing education tax credits, your social security number must be provided.  
 Age                       American Indian or Alaskan Native -                      Abbr. \_\_\_\_\_

**CITIZENSHIP:**                      **Tribe:**                      **FORMER CU STUDENT NUMBER:**

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

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

**SELECTIVE SERVICE REGISTRATION CERTIFICATION:**

I certify that I am registered with the Selective Service

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

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

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

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

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

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

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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## REGISTRATION FOR CERTIFICATE AND NONCREDIT COURSES

PLEASE PRINT

S.S. No. # \_\_\_\_\_

For identification purposes. If you wish to claim continuing education tax credits, your social security number must be provided.

Former Student Number \_\_\_\_\_

Birthdate \_\_\_\_\_  
Month/Day/Year

\_\_\_\_\_ Last First Middle Initial Maiden Name

Mailing Address \_\_\_\_\_ Home Telephone \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Business Name \_\_\_\_\_

Business Address \_\_\_\_\_ Office Telephone \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

E-mail address \_\_\_\_\_

Sex  Male  Female

Have you ever enrolled for 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

**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).

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# Colorado

University of Colorado at Boulder

## Division of Continuing Education

1505 University Avenue

University of Colorado at Boulder

178 UCB

Boulder, Colorado 80309-0178

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# Continuing EDUCATION

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

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