

Continuing EDUCATION

UNIVERSITY OF COLORADO AT BOULDER CATALOG

Spring 2008

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 educational resources available at the University of Colorado at Boulder.

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

NEW AND NOTEWORTHY

Each of our programs is offering a number of new classes. Here are just a couple of them:

Biology: A Human Approach 2

(see Boulder Evening)

Photography/Bookmaking – Intro to Artists' Books *(see Boulder Evening)*

Papermaking *(see Personal Enrichment)*

What's New in Photoshop 7

(see Computer Applications)

PROGRAM UPDATES

Getting Published Series

(see Personal Enrichment) - courses designed for aspiring writers

Workshops in Photoshop and Access
(see Computer Applications) - fast-moving, hands-on workshops to enhance your skills

Effective Writing for ESL Graduate Students *(see International English Center)* - online courses designed for graduate students who use English as a second language

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



CONTINUING
EDUCATION
CENTER

Contents

3

Boulder Evening Credit Classes

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

16

CU Connect and PLUS Registration Information

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

19

Independent Learning Programs

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

25

Additional Credit Programs

ACCESS (Available Credit Courses for Eligible Special Students) Program

High School Concurrent Program

CU-Boulder Summer Session

Degree Completion Program

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

27

Personal Enrichment Program

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

35

Computer Applications Program

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

Certificate Programs

Network Administration, Programming, Web Site Design, Web Graphics

Workshops

53

International English Center

54

Center for Business Education

55

Special Programs

Embedded Systems Certificate

Software Engineering Certificate

Allard Capital Conference

57

Campus Map

58

Registration Information

59

Credit Registration Form


60

Noncredit/Certificate Registration Form

INSIDE BACK COVER

Index

CATALOG PRODUCTION

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

Like many of the Continuing Ed faculty, Christine Dupont-Patz delights in the mix of students in her classes. "I have interior designers, architects, fine arts majors, high school students, and grandmas. They have different ideas and viewpoints and keep discussions interesting." The assignments are interesting too, whether you get to design a Greek temple or observe Boulder architecture. And you may be surprised to discover how closely some Boulder buildings resemble a Greek temple!



"I try to inspire students to go and see actual art, whether in a museum – or in Europe."

CHRISTINE DUPONT-PATZ
HISTORY OF WORLD ART

Boulder Evening Credit Program

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

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

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

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

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

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

Final Grades: Final grades will be available approximately 2 weeks after the course ends. To check your final grade, see the "Grades" information on the CU Connect and PLUS Registration Instructions, page 17.

To Drop: To drop a credit course and ensure that you receive any tuition refund that may be due, come to the Division of Continuing Education and complete a drop voucher or petition form by the appropriate date. If you don't officially withdraw from a course, you may receive a grade of "F" for that course. Drop dates are listed on the calendar on page 4.

Tuition: Tuition is determined by residency status. Resident tuition is \$136 per credit hour. Some courses requiring special equipment or materials may be slightly higher.

Nonresidents of Colorado are assessed tuition based on the number of semester hours for which they register. Nonresidents may register for up to three (3) semester hours at the rate of \$280 per credit hour. Nonresidents registering for four (4) or more semester hours of Boulder Evening credit courses will be assessed a significantly higher rate that is comparable to the regular campus, nonresident rate.

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

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

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

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

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

Scholarships: Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. December 9 is the spring application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/conted/scholar.htm.

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

Transcripts: Boulder Evening courses and grades are recorded on official University of Colorado transcripts. To request a transcript, visit the Registrar's web site at registrar.colorado.edu/support/transcripts.htm for information.

Final Exams: The final exam will be held the last day of the class. The last day of a class is available on the list of courses by start date on pages 5 and 6.

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 courses at half the regular tuition. Please bring proof of permanent appointment (showing at least half-time employment) to registration.

SURVIVAL TIP:

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



Boulder Evening Registration and Academic Calendar

SPRING 2003

December 2

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.

December 9

Deadline to apply for Nontraditional Student Scholarship.

January 20

University closed.

January 21

Full Term and Session I classes begin.

January 24

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

January 28

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 classes after this date will appear as a "W" on your academic record and must be received in writing.

January 29

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

January 31

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

February 4

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

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

February 5

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

February 11

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

February 12

Petition required to add or drop Session I classes. Petition Forms documenting extenuating circumstances are available at Continuing Education.

Tuition for Session I and Full Term due.

February 18

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

March 4

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

March 5

Petition required to add or drop Full Term classes. Petition Forms documenting extenuating circumstances are available at Continuing Education.

March 6 and 10

Last day of classes and final exams for Session I classes.

March 11

Session II classes begin.

March 14

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

March 18

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

March 19

Instructors signature required to add or drop Session II classes.

March 24-28

Spring Break. No Classes.

April 1

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

April 8

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

April 9

Petition required to add or drop Session II classes. Petition Forms documenting extenuating circumstances are available at Continuing Education.

April 29-May 5

Full Term and Session II classes end.

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

Classes by Start Date

FULL TERM CLASSES

Monday Courses, Begin January 27 and End May 5

Course No.-Hours	Sec	Call #	Times	Course Title	Core
✓ASTR 1120-3	300	30014	6-9 p.m.	General Astronomy: Stars and Galaxies	natural science
✓BCOR 2010-3	300	30016	6-9 p.m.	Business Statistics	College of Business Core
✓ECON 1078-3	300	30021	6-9 p.m.	Mathematical Tools for Economists 1	quantitative reasoning and mathematical skills
✓ENGL 1191-3	300	30028	5:30-8:30 p.m.	Introduction to Creative Writing	none
✓ENGL 1800-3	300	30031	6-9 p.m.	American Ethnic Literatures	cultural and gender diversity
✓HEBR 2110-3	300	30053	11 a.m.-1:45 p.m.	Intermediate Hebrew 1	foreign language
✓HIST 1608-3	300	30057	5:30-8:30 p.m.	Introduction to Chinese History	historical context
✓JOUR 4874-3	300	30064	6:30-9:30 p.m.	Special Topics: Scriptwriting for the Entertainment Industry	none
✓MATH 1011-3	300	30067	6-9 p.m.	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills
✓PHIL 1000-3	300	30096	6-9 p.m.	Introduction to Philosophy	ideals and values
✓PSYC 2606-3	300	30076	6:30-9:30 p.m.	Social Psychology	contemporary societies
✓PSYC 4684-3	300	30078	5:30-8:30 p.m.	Developmental Psychology	none
✓QRMS 1010-3	300	30079	6-9 p.m.	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills
✓SOCY 1006-3	300	30083	6-9 p.m.	The Social Construction of Sexuality	cultural and gender diversity
✓SPAN 2110-3	300	30090	6-9 p.m.	Second-Year Spanish 1	foreign language

Monday and Wednesday Courses, Begin January 22 and End May 5

✓ARAB 1020-5	300	30013	5:40-8:10 p.m.	Beginning Arabic 2	foreign language
✓FINE 1212-3	300	30043	6:45-9:45 p.m.	Painting 1	none
✓FINE 2191-3	300	30045	6:30-9 p.m.	Photography 2	none
✓FINE 4097-3	300	30046	6:30-9 p.m.	Special Topics: Photography/Bookmaking - Introduction to Artists' Books	none
✓FINE 5097-3	300	30047	6:30-9 p.m.	Special Topics: Photography/Bookmaking - Introduction to Artists' Books	none
✓SPAN 1020-5	302	30089	6:30-9 p.m.	Beginning Spanish 2	foreign language
✓WRTG 3020-3	302	30094	5:30-7 p.m.	Topics in Writing: Issues in Biomedical Ethics	written communication

Tuesday Courses, Begin January 21 and End April 29

✓ANTH 2020-3	300	30011	6:30-9:30 p.m.	Introduction to Physical Anthropology 2	natural science
✓COMM 2400-3	300	30019	6:30-9:30 p.m.	Communication and Society	contemporary societies
✓ECON 1088-3	300	30022	6-9 p.m.	Mathematical Tools for Economists 2	none
✓ECON 2020-4	300	30024	6-9 p.m.	Principles of Macroeconomics	contemporary societies
✓EMUS 3642-3	300	30027	6:30-9:30 p.m.	History of Jazz	none
✓ENGL 3000-3	300	30033	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
✓EPOB 1040-3	300	30037	6-9 p.m.	Biology: A Human Approach 2	natural science
✓EPOB 1220-3	300	30038	6-9 p.m.	General Biology 2	natural science
✓HIST 1020-3	300	30054	6-9 p.m.	Western Civilization 2: 16th Century to the Present	historical context
✓HIST 2227-3	300	30058	6:30-9:30 p.m.	History of the American Southwest	United States context
✓HIST 2326-3	300	30059	5:30-8:30 p.m.	Issues in American Thought and Culture	United States context
✓MGMT 3030-3	300	30068	6:30-9:30 p.m.	Critical Leadership Skills	none
✓PSCI 1101-3	300	30071	6-9 p.m.	The American Political System	contemporary societies or United States context
✓PSCI 2223-3	300	30073	5:30-8:30 p.m.	Introduction to International Relations	contemporary societies
✓SPAN 2120-3	300	30091	6:15-9:15 p.m.	Second-Year Spanish 2	foreign language

Tuesday and Thursday Courses, Begin January 21 and End May 1

✓BCOR 2000-4	300	30015	6:30-8:30 p.m.	Accounting and Financial Analysis 1	College of Business Core
✓FINE 1012-3	300	30041	6:30-9:30 p.m.	Drawing 1	none
✓FINE 1171-3	300	30042	6:30-9 p.m.	Photography 1	none
✓SLHS 2305-4	300	30080	6-8 p.m.	American Sign Language 1	foreign language
✓SPAN 1010-5	300	30087	6:30-9 p.m.	Beginning Spanish 1	foreign language
✓SPAN 1020-5	301	30088	6:30-9 p.m.	Beginning Spanish 2	foreign language
✓WRTG 3020-3	301	30093	5:30-7 p.m.	Topics in Writing: Environmental Issues	written communication

Boulder Evening

Exam code B

Wednesday Courses, Begin January 22 and End April 30

Course No.-Hours	Sec	Call #	Times	Course Title	Core
✓ BCOR 2050-3	300	30026	6:30-9:30 p.m.	Fundamentals of Marketing	College of Business Core
✓ ECON 2010-4	300	30023	6-9 p.m.	Principles of Microeconomics	contemporary societies
✓ ENGL 3051-3	300	30034	6-9 p.m.	Intermediate Fiction Workshop	none
✓ ENGL 3060-3	300	30036	5:30-8:30 p.m.	Modern and Contemporary Literature	literature and the arts
✓ FILM 3501-3	300	30039	7-10 p.m.	Film Production Management	none
✓ GEOG 3251-3	300	30052	6-9 p.m.	Mountain Geography	none
✓ PHIL 1100-3	300	30069	6:30-9:30 p.m.	Ethics	ideals and values
✓ PSYC 1001-3	300	30075	6:30-9:30 p.m.	General Psychology	none
✓ THTR 1009-3 9	300	30092	6-9 p.m.	Introduction to Theatre	literature and the arts

Thursday Courses, Begin January 23 and End May 1

✓ ANTH 3000-3	300	30012	6:30-9:30 p.m.	Primate Behavior	natural science
✓ COMM 1300-3	300	30017	6:30-9:30 p.m.	Public Speaking	none
✓ EMUS 2752-3	300	30393	6-9 p.m.	Music in American Culture	United States context
✓ FINE 1400-3	300	30044	6:30-9:30 p.m.	History of World Art 2	literature and the arts
✓ HIST 1025-3	300	30095	5:30-8:30 p.m.	History of the United States since 1865	United States context
✓ HIST 2123-3	300	30056	6:30-9:30 p.m.	The History of England, 1660 to Present	historical context
✓ HIST 2866-3	300	30060	6:30-9:30 p.m.	American History and Film	United States context
✓ HIST 4133-3	300	30061	6-9 p.m.	Tudor England	none
✓ KAPH 3420-3	300	30066	6-9 p.m.	Nutrition, Health and Performance	natural science
✓ PSCI 2004-3	300	30072	6-9 p.m.	Survey of Western Political Thought	ideals and values
✓ PSYC 4303-3	300	30077	6:30-9:30 p.m.	Abnormal Psychology	none
✓ SOCY 4024-3 12	300	30086	6-9 p.m.	Juvenile Delinquency	contemporary societies

SESSION I CLASSES

Monday and Wednesday Courses, Begin January 22 and End March 10

✓ ENGL 1600-3 in	100	30030	6-9 p.m.	Masterpieces of American Literature	literature and the arts
✓ ENGL 3060-3 IN	100	30035	6-9 p.m.	Modern and Contemporary Literature	literature and the arts
✓ GEOG 1982-3 IN	100	30050	6-9 p.m.	World Regional Geography	none
✓ KAPH 3420-3	100	30065	6-9 p.m.	Nutrition, Health and Performance	natural science
✓ PSCI 4734-3 IN	100	30074	6-9 p.m.	Politics and Literature	critical thinking

Tuesday and Thursday Courses, Begin January 21 and End March 6

✓ FILM 3563-3	100	30040	7-10 p.m.	Producing the Feature Film	none
✓ GEOG 1001-4 IN	100	30048	6-9 p.m.	Environmental Systems 1 - Climate and Vegetation	natural science
✓ JOUR 1002-3 IN	100	30063	6-9 p.m.	Critical Thinking and Writing	none
✓ SOCY 1004-3 IN	100	30082	6-9 p.m.	Deviance in U.S. Society	ideals and values
✓ SOCY 1016-3 IN	100	30084	6-9 p.m.	Sex, Gender, and Society 1	cultural and gender diversity

SESSION II CLASSES

Monday and Wednesday Courses, Begin March 12 and End May 5

✓ COMM 2400-3	200	30020	6:30-9:30 p.m.	Communication and Society	contemporary societies
✓ ENGL 1500-3	200	30029	6-9 p.m.	Masterpieces of British Literature	literature and the arts
✓ ENGL 3000-3	200	30032	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
✓ GEOG 1992-3	200	30051	6-9 p.m.	Human Geographies	none
✓ SOCY 1001-3	200	30081	6-9 p.m.	Introduction to Sociology	contemporary societies

Tuesday and Thursday Courses, Begin March 11 and End May 1

✓ COMM 1300-3	200	30018	6-9 p.m.	Public Speaking	none
✓ GEOG 1011-4	200	30049	6-9 p.m.	Environmental Systems 2 - Landscapes and Water	natural science
✓ JOUR 1001-3	200	30062	6-9 p.m.	Contemporary Mass Media	none
✓ SOCY 3151-3	200	30085	6-9 p.m.	Self in Modern Society	United States context or ideals and values

ANTHROPOLOGY**Introduction to Physical Anthropology 2**

ANTH 2020

3 SEMESTER HOURS

Continuation of ANTH 2010. Emphasizes quantitative analysis, genetics, and race.

Students may not receive credit for both ANTH 2020 and 2060. Prereq., ANTH 2010. Approved for arts and sciences core curriculum: natural science.

Sue Woods, PhD

Full Term - Section 300: Call No. 30011
Tuesdays, 6:30-9:30 p.m. Economics 13.
\$408 (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, PhD

Full Term - Section 300: Call No. 30012
Thursdays, 6:30-9:30 p.m. Hale 240.
\$408 (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.

Nadia Turk, PhD

Full Term - Section 300: Call No. 30013
Mondays and Wednesdays, 5:40-8:10 p.m.
Hellemes 237. \$700 (resident).

ASTROPHYSICAL AND PLANETARY SCIENCES**General Astronomy: Stars and Galaxies**

ASTR 1120

3 SEMESTER HOURS

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

Joe Romig, PhD

Full Term - Section 300: Call No. 30014
Mondays, 6-9 p.m. Hale 270. \$408 (resident).

BIOLOGY**Biology: A Human Approach 2**

EPOB 1040

3 SEMESTER HOURS

Continuation of EPOB 1030, focusing on the function of the human body, and maintenance of dynamic equilibrium in the internal environment in the face of a continually changing external environment. Discusses factors influencing these homeostatic conditions and how and why they change. Recommended for nonscience majors. Prereq., EPOB 1030. Approved for arts and sciences core curriculum: natural science.

Alicinda Lewis, PhD

Full Term - Section 300: Call No. 30037
Tuesdays, 6-9 p.m. Guggenheim 205.
\$408 (resident).

General Biology 2

EPOB 1220

3 SEMESTER HOURS

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

Beth Bennett, PhD

Full Term - Section 300: Call No. 30038
Tuesdays, 6-9 p.m. Humanities 250.
\$408 (resident).



Continuing Ed classes are convenient, often offered in the evenings. This is a boon to people who work during the day, and to college students with full schedules as well. CU undergraduate journalism major Amanda Spielman took a required economics class in the evening because she couldn't fit it into her "regular" course load. "Through Continuing Ed, I can stay on track to graduate on time."

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.

Veronda Willis, MPA

Full Term - Section 300: Call No. 30015
Tuesdays and Thursdays, 6:30-8:30 p.m.
Business 353. \$544 (resident).

*(Business Core continued)***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.

Instructor: TBA

Full Term - Section 300: Call No. 30016
Mondays, 6-9 p.m. Business 353.
\$408 (resident).

Fundamentals of Marketing**BCOR 2050****3 SEMESTER HOURS**

Examines how activities in organizations provide value to the purchasers of its products and services. Includes gathering information about consumers and competitors through research and information systems, applying knowledge and technology to the design of products and services, communicating information to consumers and organizational units, and pricing and distributing products and services. Also includes issues in global marketing, ethics and diversity, relationship marketing, and integrating marketing with financial analyses. This course is a core requirement for all Business majors. Prereq., ECON 2010 or 2020, any college level economics course.

Joseph Thomas Paniculangara, MS, MBA

Full Term - Section 300: Call No. 30026
Wednesdays, 6:30-9:30 p.m. Business 353.
\$408 (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, MA

Full Term - Section 300: Call No. 30017
Thursdays, 6:30-9:30 p.m. Hellems 237.
\$408 (resident).

David Steiner, PhD

Session II - Section 200: Call No. 30018
Tuesdays and Thursdays, 6-9 p.m.
Museum Collections E158. \$408 (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, MA

Full Term - Section 300: Call No. 30019
Tuesdays, 6:30-9:30 p.m. Hellems 237.
\$408 (resident).

Session II - Section 200: Call No. 30020
Mondays and Wednesdays, 6:30-9:30 p.m.
Economics 205. \$408 (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, PhD

Full Term - Section 300: Call No. 30021
Mondays, 6-9 p.m. Economics 119.
\$408 (resident).

**Mathematical Tools
for Economists 2****ECON 1088****3 SEMESTER HOURS**

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

William Mertens, PhD

Full Term - Section 300: Call No. 30022
Tuesdays, 6-9 p.m. Economics 119.
\$408 (resident).

Principles of Microeconomics**ECON 2010****4 SEMESTER HOURS**

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

William Mertens, PhD

Full Term - Section 300: Call No. 30023
Wednesdays, 6-9 p.m. Economics 119.
\$544 (resident).

Principles of Macroeconomics**ECON 2020****4 SEMESTER HOURS**

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

Rachael Small, MBA

Full Term - Section 300: Call No. 30024
Tuesdays, 6-9 p.m. Economics 117.
\$544 (resident).

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, PhD

Full Term - Section 300: Call No. 30028
Mondays, 5:30-8:30 p.m. Hellems 245.
\$408 (resident).

Masterpieces of British Literature ENGL 1500

3 SEMESTER HOURS

Introduces students to a range of major works of British literature through classroom discussions, viewing of movie adaptations, and written assignments (with opportunities for revision). Works will include at least one play by Shakespeare, a pre-twentieth-century English novel, and works by Chaucer, Johnathan Swift, T.S. Eliot, and James Joyce. Approved for arts and sciences core curriculum: literature and the arts.

Patricia Thompson, MA

Session II - Section 200: Call No. 30029
Mondays and Wednesdays, 6-9 p.m.
Hellems 255. \$408 (resident).

Masterpieces of American Literature ENGL 1600

3 SEMESTER HOURS

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

Patricia Thompson, MA

Session I - Section 100: Call No. 30030
Mondays and Wednesdays, 6-9 p.m.
Hellems 255. \$408 (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, PhD

Full Term - Section 300: Call No. 30031
Mondays, 6-9 p.m. Ketchum 119.
\$408 (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, PhD

Full Term - Section 300: Call No. 30033
Tuesdays, 5:30-8:30 p.m. Humanities 125.
\$408 (resident).

Pamela Hadas, PhD

Session II - Section 200: Call No. 30032
Mondays and Wednesdays, 5:30-8:30 p.m.
Hellems 199. \$408 (resident).

Intermediate Fiction Workshop ENGL 3051

3 SEMESTER HOURS

This course is an introduction to the techniques used to create graphic novels (comic books). Students will apply these techniques to create works of their own. Though there is a good amount of art work (drawing) involved in this class, this is primarily a writing course. The course work and discussions will focus on the key elements of fiction and how these elements are developed through dialogue and sequential art. We will take a critical look at various graphic novels and compare the techniques of the graphic novel to other genres such as screenplays and literary fiction.

Graham Averill, MA

Full Term - Section 300: Call No. 30034
Wednesdays, 6-9 p.m. Hellems 137.
\$408 (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.

James McVey, PhD

Session I - Section 100: Call No. 30035
Mondays and Wednesdays, 6-9 p.m.
Hellems 241. \$408 (resident).

George Moore, PhD

Full Term - Section 300: Call No. 30036
Wednesdays, 5:30-8:30 p.m. Hale 260. \$408
(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. FILM 3501 or 3563 may be used for partial fulfillment of major requirements.

Frank Iannella, MA

Session I - Section 100: Call No. 30040
Tuesdays and Thursdays, 7-10 p.m.
Humanities 145. \$408 (resident).

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 with a serious interest in media production as a career. It is not recommended for students looking to fill general electives. FILM 3501 or 3563 may be used for partial fulfillment of major requirements.

Frank Iannella, MA

Full Term - Section 300: Call No. 30039
Wednesdays, 7-10 p.m. Guggenheim 3.
\$408 (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, MFA

Full Term - Section 300: Call No. 30041
Tuesdays and Thursdays, 6:30-9:30 p.m.
Fine Arts N298. \$458 (resident).

Photography 1

FINE 1171

3 SEMESTER HOURS

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

Greg Massey, MFA

Full Term - Section 300: Call No. 30042
Tuesdays and Thursdays, 6:30-9 p.m.
Fine Arts N187. \$468 (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. May not be repeated.

Susanna Cavalletti, MFA

Full Term - Section 300: Call No. 30043
Mondays and Wednesdays, 6:45-9:45 p.m.
Fine Arts N103. \$458 (resident).

History of World Art 2

FINE 1400

3 SEMESTER HOURS

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

Christine Dupont-Patz, MA

Full Term - Section 300: Call No. 30044
Thursdays, 6:30-9:30 p.m. Hale 230.
\$453 (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, MFA

Full Term - Section 300: Call No. 30045
Mondays and Wednesdays, 6:30-9 p.m.
Fine Arts N185. \$468 (resident).

**Special Topics:
Photography/Bookmaking -
Introduction to Artists' Books**

FINE 4097

3 SEMESTER HOURS

This course will look at books as an art form in and of themselves as well as a conceptual space to create works of art. The course will review the history of books and book arts as well as provide students with the opportunity to work with a variety of materials and techniques to create their own books. Students will gain a greater understanding of how books themselves are being recognized as an art form in their own right and of the role artists' books play in modern and contemporary art.

Mia Semington, MFA

Full Term - Section 300: Call No. 30046
Mondays and Wednesdays, 6:30-9 p.m.
Fine Arts C153. \$408 (resident).

**Special Topics:
Photography/Bookmaking -
Introduction to Artists' Books**

FINE 5097

3 SEMESTER HOURS

Same as FINE 4097.

Mia Semington, MFA

Full Term - Section 300: Call No. 30047
Mondays and Wednesdays, 6:30-9 p.m.
Fine Arts C153. \$408 (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. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: natural science.

Steve Welter, PhD

Session I - Section 100: Call No. 30048
Tuesdays and Thursdays, 6-9 p.m.
Ramaley N1B23. \$544 (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. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: natural science.

Steve Welter, PhD

Session II - Section 200: Call No. 30049
Tuesdays and Thursdays, 6-9 p.m.
Ramaley N1B23. \$544 (resident).

World Regional Geography**GEOG 1982**

3 SEMESTER HOURS

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

Cristine Milton, MA

Session I - Section 100: Call No. 30050

Mondays and Wednesdays, 6-9 p.m.

Guggenheim 206. \$408 (resident).

Human Geographies**GEOG 1992**

3 SEMESTER HOURS

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

Cristine Milton, MA

Session II - Section 200: Call No. 30051

Mondays and Wednesdays, 6-9 p.m.

Guggenheim 206. \$408 (resident).

Mountain Geography**GEOG 3251**

3 SEMESTER HOURS

Surveys mountain environments and their human use with illustrations from temperate and tropical mountain areas.

Steve Welter, PhD

Full Term - Section 300: Call No. 30052

Wednesdays, 6-9 p.m. Guggenheim 2.

\$408 (resident).

HEBREW**Intermediate Hebrew 1****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.

Uri Neil, JD

Full Term - Section 300: Call No. 30053

Mondays, 11 a.m.-1:45 p.m. Continuing

Education Center 140. \$408 (resident).

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

3 SEMESTER HOURS

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

Richard Smith, PhD

Full Term - Section 300: Call No. 30054

Tuesdays, 6-9 p.m. Duane Physics G131.

\$408 (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, PhD

Full Term - Section 300: Call No. 30095

Thursdays, 5:30-8:30 p.m. Guggenheim 205.

\$408 (resident).

Introduction to Chinese History**HIST 1608**

3 SEMESTER HOURS

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

Marco De Martino, MA

Full Term - Section 300: Call No. 30057

Mondays, 5:30-8:30 p.m. Hellems 211.

\$408 (resident).

**The History of England,
1660 to Present****HIST 2123**

3 SEMESTER HOURS

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

Jean McGinnis, PhD

Full Term - Section 300: Call No. 30056

Thursdays, 6:30-9:30 p.m.

Engineering Center CR 151. \$408 (resident).

History of the American Southwest**HIST 2227**

3 SEMESTER HOURS

Covers major observations and criticisms central in shaping the history of the southwest. Restricted to non-history majors. Does not fulfill major requirements. Approved for arts and sciences core curriculum: United States context.

James Fell, PhD

Full Term - Section 300: Call No. 30058

Tuesdays, 6:30-9:30 p.m. Hellems 267.

\$408 (resident).

**Issues in American
Thought and Culture****HIST 2326**

3 SEMESTER HOURS

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

Merle Funk, PhD

Full Term - Section 300: Call No. 30059

Tuesdays, 5:30-8:30 p.m. Economics 205.

\$408 (resident).

*(Psychology continued)***Social Psychology****PSYC 2606****3 SEMESTER HOURS**

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

Patrick Vann, PhD

Full Term - Section 300: Call No. 30076
Mondays, 6:30-9:30 p.m. Muenzinger E113.
\$408 (resident).

Abnormal Psychology**PSYC 4303****3 SEMESTER HOURS**

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

Patrick Vann, PhD

Full Term - Section 300: Call No. 30077
Thursdays, 6:30-9:30 p.m. Muenzinger E113.
\$408 (resident).

Developmental Psychology**PSYC 4684****3 SEMESTER HOURS**

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

Jennifer Schwartz, PhD

Full Term - Section 300: Call No. 30078
Mondays, 5:30-8:30 p.m. Muenzinger E131.
\$408 (resident).

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

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

Kevin Manley, MS

Full Term - Section 300: Call No. 30079
Mondays, 6-9 p.m. Engineering
Center CR 1B55. \$408 (resident).

SOCIOLOGY**Introduction to Sociology****SOCY 1001****3 SEMESTER HOURS**

Examines U.S. society in global context, using basic sociological ideas. Focuses on the nature of group life, social and moral order, social institutions, social disorganization, social problems, and social change. Approved for arts and sciences core curriculum: contemporary societies.

Instructor: TBA

Session II - Section 200: Call No. 30081
Mondays and Wednesdays, 6-9 p.m.
Ketchum 235. \$408 (resident).

Deviance in U.S. Society**SOCY 1004****3 SEMESTER HOURS**

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

Instructor: TBA

Session I - Section 100: Call No. 30082
Tuesdays and Thursdays, 6-9 p.m. Hellems 137.
\$408 (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. 30083
Mondays, 6-9 p.m. Muenzinger E0046.
\$408 (resident).

Sex, Gender, and Society I**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 I - Section 100: Call No. 30084
Tuesdays and Thursdays, 6-9 p.m.

Museum Collections W100. \$408 (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, PhD

Session II - Section 200: Call No. 30085
Tuesdays and Thursdays, 6-9 p.m.
Museum Collections W100. \$408 (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, PhD

Full Term - Section 300: Call No. 30086
Thursdays, 6-9 p.m. Hellems 267.
\$408 (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 Cleavinger, MA

Full Term - Section 300: Call No. 30087
Tuesdays and Thursdays, 6:30-9 p.m.
Guggenheim 206. \$700 (resident).

Beginning Spanish 2

SPAN 1020

5 SEMESTER HOURS

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

Wendy Mendez, MA

Full Term - Section 301: Call No. 30088
Tuesdays and Thursdays, 6:30-9 p.m.
Hellems 181. \$700 (resident).

Javier Garces, BA

Full Term - Section 302: Call No. 30089
Mondays and Wednesdays, 6:30-9 p.m.
Humanities 370. \$700 (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. 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.

Wendy Mendez, MA

Full Term - Section 300: Call No. 30090
Mondays, 6-9 p.m. Humanities 180.
\$428 (resident).

Second-Year Spanish 2

SPAN 2120

3 SEMESTER HOURS

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

Javier Garces, BA

Full Term - Section 300: Call No. 30091
Tuesdays, 6:15-9:15 p.m. Hellems 255.
\$428 (resident).

SPEECH, LANGUAGE AND HEARING SCIENCES**American Sign Language 1**

SLHS 2305

4 SEMESTER HOURS

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

Willard Moers, MA

Full Term - Section 300: Call No. 30080
Tuesdays and Thursdays, 6-8 p.m.
Muenzinger E131. \$564 (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, PhD

Full Term - Section 300: Call No. 30092
Wednesdays, 6-9 p.m. Humanities 190.
\$408 (resident).

WRITING AND RHETORIC**Topics in Writing**

WRTG 3020

3 SEMESTER HOURS

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

Environmental Issues*Anne Bliss, PhD*

Full Term - Section 301: Call No. 30093
Tuesdays and Thursdays, 5:30-7 p.m.
Continuing Education 140. \$408 (resident).

Issues in Biomedical Ethics*Donald Wilkerson, MA*

Full Term - Section 302: Call No. 30094
Mondays and Wednesdays, 5:30-7 p.m.
Duane Physics G1B27. \$408 (resident).

CU Connect and PLUS Registration

In addition to registering by mail, fax (303-492-3962), or in person (1505 University Avenue), Boulder Evening and Independent Learning students are eligible to register using CU Connect (the telephone registration system) or PLUS (web registration). To be eligible to use either CU Connect or PLUS, you must be activated for Continuing Education for the spring and have no academic or financial stop which could prevent you from registering. To be activated for Continuing Education for spring, return the credit registration form on page 59. 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 or on November 28, December 25 and January 1. *Limited hours* on December 24 and December 31, 7 a.m.-5 p.m.

Register Using PLUS

Eligible Boulder Evening and Independent Learning students can register on the Web by accessing the CU home page at www.colorado.edu and choosing Resources for Students and then Personal Lookup Services (PLUS) or going directly to PLUS at plus.colorado.edu/plus and selecting the "Registration Log-On" button. You will then need to enter your student ID/social security number and personal identification number (PIN) and hit submit. At the registration menu, choose the "Register" tab at the bottom of the page. Then choose Continuing Education Spring 2003 and follow the instructions on the web page from there to add, drop or waitlist for a course, and request pass/fail or no credit. You will need to enter the 5 digit course call numbers to register for courses and click on

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

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

Register Using CU Connect

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

- the Boulder-campus code 1
- the Continuing Education code 1
- the registration application code 1
- the term code 031
- 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?
<input type="text" value="2"/> <input type="text" value="*"/>	<input type="text" value="#"/>
<input type="text" value="2"/> <input type="text" value="*"/>	<input type="text" value="#"/>
<input type="text" value="2"/> <input type="text" value="*"/>	<input type="text" value="#"/>
<input type="text" value="2"/> <input type="text" value="*"/>	<input type="text" value="#"/>

Other CU Connect Functions

- To **add** a course, press 2*, the course call number, then #
- To **drop** a course, press 3*, the course call number, then #
- To request a course for **no credit**, press *1 between the course call number and #
- To request a course for **pass/fail**, press *2 between the course call number and #
- To **list** your courses, **verify** your schedule, or check your position on a **wait list**, press 5#
- To **search** for open sections, press 7#
- To place your name on a **wait list**, press 9#
- To **cancel** an entry, press *# before you have completed the transaction
- To **exit** the registration application, press 8# then 1 to access the student billing application for your **account balance and/or credit card payment option** or press 2 to **end** the call.

Verifying and Adjusting Your Schedule

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

Wait Lists

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

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

Account Balances

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

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

Course Restrictions

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

Grades

To access your grades through the Web, log on to plus.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 (031 for spring) followed by your student number and PIN. To determine the term code for previous semesters, the first two digits are the year and the last digit the semester (1=Spring, 4=Summer, 7=Fall).

Additional Web Functions

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

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

Problems? Questions?

If you have any type of registration stop, you will not be allowed to enroll via 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 plus.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 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.

Jay Kaplan sparks the online economic class discussions with topical events to illustrate economic theory. "I start classes off with current events and ask the students to add their input. I want students to feel comfortable expressing their perspective to encourage a diversity of thought." So you not only get the flexibility of taking a class online, you can express your views too. It's sound economic theory!

"My economics class is always changing, based on what's happening in the world."

JAY KAPLAN
ECONOMICS



Jay shares the spotlight with his son Blue.

Independent Learning Programs

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

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

So, it's up to you to challenge yourself and to decide how you want to take a course. Complete course descriptions are available on the Web at www.colorado.edu/cewww.

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
ANTHROPOLOGY							
ANTH	1030	650	Principles of Anthropology 1	Kathy Greene, MA	3	30097	\$390
ANTH	1040	650	Principles of Anthropology 2	Kathy Greene, MA	3	30098	\$390
ANTH	2010	650	Introduction to Physical Anthropology 1	Kathy Greene, MA	3	30099	\$390
ANTH	2020	650	Introduction to Physical Anthropology 2	Kathy Greene, MA	3	30100	\$390
ANTH	2070	640	Bones, Bodies and Disease	Dawn Mulhern, PhD	3	30101	\$390
ANTH	2200	650	Introduction to Archaeology	Kathy Greene, MA	3	30102	\$390
ASTROPHYSICAL AND PLANETARY SCIENCES							
ASTR	1110	640	General Astronomy: The Solar System	Kelly Cline, MA	3	30103	\$390
COMMUNICATION							
COMM	2400	640	Communication and Society	Robert Agne, MA	3	30104	\$390
COMM	2400	650	Communication and Society	Robert Agne, MA	3	30105	\$390
COMM	4600	640	Senior Seminar: Organizational Communication	Brenda J. Allen, PhD	3	30106	\$390
COMPUTER SCIENCE							
CSCI	2830	640	Special Topics in Computer Science	James P. Gately, MT	1	30107	\$130
CSCI	2830	650	Special Topics in Computer Science	James P. Gately, MT	1	30108	\$130
ECONOMICS							
ECON	2010	641	Principles of Microeconomics	Laura Argys, PhD	4	30109	\$520
ECON	2010	650	Principles of Microeconomics	Laura Argys, PhD	4	30110	\$520
ECON	2020	640	Principles of Macroeconomics	Jay Kaplan, PhD	4	30111	\$520
ECON	2020	650	Principles of Macroeconomics	Laura Argys, PhD	4	30112	\$520
ECON	3403	640	International Economics and Policy	Jay Kaplan, PhD	3	30113	\$390
ECON	4111	640	Money and Banking Systems	Jay Kaplan, PhD	3	30114	\$390

it's up to you...



*** SECTION LEGEND**

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

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
EDUCATION							
EDUC	4161	640	Children's Literature	Phyllis Kennemer, EdD	3	30115	\$390
EDUC	4161	650	Children's Literature	Phyllis Kennemer, EdD	3	30116	\$390
EDUC	4322	650	Teaching Literature in Middle and Secondary Schools	Caroline McKinney, MA	3	30117	\$390
ENGLISH							
ENGL	1191	650	Introduction to Creative Writing	Michael Arvey, MA	3	30118	\$390
ENGL	1260	650	Introduction to Women's Literature	Anne Marie Dannenberg, PhD	3	30120	\$390
ENGL	1600	650	Masterpieces of American Literature	D'Ann Sanko, MA	3	30121	\$390
ENGL	2000	581	Literary Analysis	James McVey, PhD	3	30122	\$510
ENGL	2021	650	Introductory Poetry Workshop	Michael Arvey, MA	3	30124	\$390
ENGL	3000	650	Shakespeare for Nonmajors	Rhonda Sanford, PhD	3	30125	\$390
ENGL	3051	640	Intermediate Fiction Workshop	Todd Pinney, PhD	3	30126	\$390
ENGL	3051	650	Intermediate Fiction Workshop	Todd Pinney, PhD	3	30127	\$390
ENGL	3060	640	Modern and Contemporary Literature	Todd Pinney, PhD	3	30128	\$390
ENGL	3060	650	Modern and Contemporary Literature	Todd Pinney, PhD	3	30129	\$390
ENGL	3081	650	Intermediate Nonfiction Workshop	Todd Pinney, PhD	3	30130	\$390
ENGL	3553	650	Chaucer: The Canterbury Tales	Zelda Rouillard, PhD	3	30131	\$390
ENGL	3563	650	Shakespeare 1	Rhonda Sanford, PhD	3	30132	\$390
ENGL	3573	650	Shakespeare 2	Rhonda Sanford, PhD	3	30133	\$390
ENGL	3655	640	American Literature to 1860	Todd Pinney, PhD	3	30134	\$390
ENGL	3655	650	American Literature to 1860	Todd Pinney, PhD	3	30135	\$390
ENGL	3665	640	American Literature after 1860	Todd Pinney, PhD	3	30136	\$390
ENGL	3665	650	American Literature after 1860	Todd Pinney, PhD	3	30137	\$390
ENGL	4100	650	The English Language	Zelda Rouillard, PhD	3	30138	\$390
FINE ARTS							
FINE	1012	650	Drawing 1	Patricia Cheyne, MFA	3	30139	\$390
FINE	3637	650	Art for the Elementary Teacher	Patricia Cheyne, MFA	3	30140	\$390
GEOGRAPHY							
GEOG	1001	650	Environmental Systems 1 – Climate and Vegetation	Dixon Smith, PhD	3	30141	\$520
GEOG	1011	650	Environmental Systems 2 – Landscapes and Water	Dixon Smith, PhD	3	30142	\$520
GEOG	1992	640	Human Geographies	Leigh Miller, MA	3	30143	\$390
GEOLOGY							
GEOL	1010	640	Introduction to Geology 1	Emily CoBabe, PhD	3	30144	\$390
GEOL	1010	650	Introduction to Geology 1	Emily CoBabe, PhD	3	30145	\$390
GEOL	1020	650	Introduction to Geology 2	Hilde Schwartz, PhD	3	30146	\$390

* SECTION LEGEND

64x = online, self-paced course

65x = print-based correspondence course

58x = online, term-based course

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
HISTORY							
HIST	1010	640	Western Civilization 1: From Antiquity to the 16th Century	Jeanne Christensen, MA	3	30147	\$390
HIST	1010	650	Western Civilization 1: From Antiquity to the 16th Century	Jeanne Christensen, MA	3	30148	\$390
HIST	1015	650	History of the United States to 1865	James Fell, PhD	3	30149	\$390
HIST	1020	640	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, MA	3	30150	\$390
HIST	1020	650	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, MA	3	30151	\$390
HIST	1025	650	History of the United States since 1865	James Fell, PhD	3	30152	\$390
HIST	2117	640	History of Colorado	James Fell, PhD	3	30153	\$390
HIST	2117	650	History of Colorado	James Fell, PhD	3	30154	\$390
HIST	4217	650	The American West in the 19th Century	Anthony McGinnis, PhD	3	30155	\$390
HIST	4227	650	The American West in the 20th Century	Anthony McGinnis, PhD	3	30156	\$390
HIST	4733	640	The Russian Revolution and the Soviet Regime	John Hatch, PhD	3	30157	\$390
JOURNALISM							
JOUR	1001	640	Contemporary Mass Media	Rebecca Self Hill, PhD	3	30158	\$390
JOUR	3771	640	Mass Communication History	Cinda Gillilan, PhD	3	30159	\$390
KINESIOLOGY AND APPLIED PHYSIOLOGY							
KAPH	3420	640	Nutrition, Health, and Performance	Mary Beth Lynch, PhD	3	30160	\$390
KAPH	3420	650	Nutrition, Health, and Performance	Frank Konishi, PhD	3	30161	\$390
MATHEMATICS							
MATH	1011	650	Fundamentals and Techniques of College Algebra	Brian Clark, MA	3	30162	\$390
MATH	1021	650	Numerical and Analytical College Trigonometry	Kristen Marshall, PhD	3	30163	\$260
MATH	1071	650	Finite Mathematics for Social Science and Business	Kristen Marshall, PhD	3	30164	\$390
MATH	1081	650	Calculus for Social Science and Business	Kristen Marshall, PhD	3	30165	\$390
MATH	1300	650	Analytic Geometry and Calculus 1	Brian Clark, MA	5	30166	\$650
MATH	2300	650	Analytic Geometry and Calculus 2	Kristen Marshall, PhD	5	30167	\$650
MUSIC							
EMUS	1081	650	Basic Music Theory	Debbie Corisis, MA	3	30119	\$390
PHILOSOPHY							
PHIL	1000	650	Introduction to Philosophy	Barbara Morrison, PhD	3	30168	\$390
PHIL	1100	650	Ethics	Barbara Morrison, PhD	3	30169	\$390
PHIL	1600	650	Philosophy and Religion	Barbara Morrison, PhD	3	30170	\$390
PHIL	4040	650	Studies in 20th-Century Philosophy	Barbara Morrison, PhD	3	30171	\$390
POLITICAL SCIENCE							
PSCI	1101	650	The American Political System	Jeffrey Ian Ross, PhD	3	30172	\$390
PSCI	2223	650	Introduction to International Relations	Jeffrey Ian Ross, PhD	3	30173	\$390

* SECTION LEGEND

64x = online, self-paced course

65x = print-based correspondence course

58x = online, term-based course

Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
PSYCHOLOGY							
PSYC	1001	650	General Psychology	Tim Bockes, PhD	3	30174	\$390
PSYC	2012	640	Biological Psychology 1	Howard Bashinski, PhD	3	30175	\$390
PSYC	2012	650	Biological Psychology 1	Howard Bashinski, PhD	3	30176	\$390
PSYC	2022	650	Biological Psychology 2	Howard Bashinski, PhD	3	30177	\$390
PSYC	2303	640	Psychology of Adjustment	ShawnaLee Washam, PhD	3	30178	\$390
PSYC	2303	650	Psychology of Adjustment	ShawnaLee Washam, PhD	3	30179	\$390
PSYC	2606	640	Social Psychology	Brett King, PhD	3	30180	\$390
PSYC	2606	650	Social Psychology	Brett King, PhD	3	30181	\$390
PSYC	3101	640	Statistics and Research Methods in Psychology	Howard Bashinski, PhD	3	30182	\$520
PSYC	3101	650	Statistics and Research Methods in Psychology	Howard Bashinski, PhD	3	30183	\$520
PSYC	4303	640	Abnormal Psychology	Brett King, PhD	3	30184	\$390
PSYC	4303	650	Abnormal Psychology	Brett King, PhD	3	30185	\$390
PSYC	4456	640	Psychology of Personality	Tim Bockes, PhD	3	30186	\$390
PSYC	4456	650	Psychology of Personality	Tim Bockes, PhD	3	30187	\$390
PSYC	4511	650	History of Psychology	Wayne Viney, PhD	3	30188	\$390
PSYC	4684	640	Developmental Psychology	Johnna Shapiro, PhD	3	30189	\$390
PSYC	4684	650	Developmental Psychology	Johnna Shapiro, PhD	3	30190	\$390
SOCIOLOGY							
SOCY	1001	640	Introduction to Sociology	Steve Wilson, PhD	3	30191	\$390
SOCY	1001	650	Introduction to Sociology	Steve Wilson, PhD	3	30192	\$390
SOCY	1016	650	Sex, Gender, and Society 1	Kristine DeWelde BA	3	30194	\$390
SOCY	4014	650	Criminology	Steve Wilson, PhD	3	30196	\$390
SOCY	4025	640	Conflict Management in Social Systems	Guy Burgess, PhD	3	30197	\$390
SOCY	4086	641	Family and Society	Jan Burhmann, PhD	3	30198	\$390
SPEECH, LANGUAGE AND HEARING SCIENCES							
SLHS	4035	581	The Linguistic Structure of American Sign Language	Jeff Davis, PhD	3	30199	\$630
SLHS	5035	581	The Linguistic Structure of American Sign Language	Jeff Davis, PhD	3	30204	\$630
SLHS	5045	581	Discourse Analysis of American Sign Language	Cynthia Roy, PhD	3	30203	\$630
SLHS	5115	581	Mentorship II: Interpreting English/Visual Modes	Elizabeth Winston, PhD	3	30206	\$630
WRITING AND RHETORIC							
WRTG	3020	581	Topics in Writing: American Culture	Rosalyn Zigmund, MA	3	30209	\$510
WRTG	3020	582	Topics in Writing: Biomedical Ethics	Donald Wilkerson, MA	3	30210	\$510
WRTG	3020	583	Topics in Writing: American Culture	Rosalyn Zigmund, MA	3	30390	\$510
WRTG	3040	581	Writing on Business and Society	Anne Bliss, PhD	3	30211	\$510
WRTG	3040	582	Writing on Business and Society	Amy Goodloe, MA	3	30212	\$510
WRTG	3040	583	Writing on Business and Society	Amy Goodloe, MA	3	30213	\$510

* SECTION LEGEND

64x = online, self-paced course

65x = print-based correspondence course

58x = online, term-based course

APPLIED MUSIC

During fall and spring semesters the College of Music and Independent Learning offer private instruction for voice and most popular instruments. Group classes are offered for beginning guitar and piano. Private lessons are by arrangement. Students must furnish instruments, except piano.

9 hours of instruction. 2 semester hours credit. Tuition: \$310.

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

Spring 2003 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.

ENGLISH

Literary Analysis

ENGL 2000-3

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

Section 581 James McVey, PhD Call Number: 30122
Tuition: \$510

Term dates: January 21-May 8, 2003

SPEECH, LANGUAGE AND HEARING SCIENCES

The Linguistic Structure of American Sign Language

SLHS 4035-3 (undergraduate)

SLHS 5035-3 (graduate)

Reviews the theoretical and practical aspects of ASL grammatical structure, the sociolinguistics of ASL, and the development of ASL as a normal first language. Focuses on ASL Literature and expository text as sources for complex grammatical structures. Prereq., LING 2000; SLHS 2325 recommended.

SLHS 4035 - Section 581 Jeff Davis, PhD Call Number: 30199
Tuition: \$630

SLHS 5035 - Section 581 Jeff Davis, PhD Call Number: 30204
Tuition: \$630

Term dates: January 13-May 8, 2003

Discourse Analysis of American Sign Language

SLHS 5045-3

Provides an introduction to discourse analysis, focusing on ASL and English discourse. Topics include discourse analysis approaches, natural data analysis, 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, coherence and cohesion, framing, and interaction strategies. emphasizes relevance of these topics to teaching ASL and/or interpreting. Prereq., SLHS 5035.

Section 581 Cynthia Roy, PhD Call Number: 30203
Tuition: \$630

Term dates: January 13-May 8, 2003

NEW THIS SPRING

In conjunction with the International English Center, Effective Writing for ESL Graduate Students. This 4-module course is self-paced and available online. See page 53 for additional information.

Mentorship II: Interpreting English/Visual Modes

SLHS 5115-3

Builds on the information presented in SLHS 5105. Presents examination and practice of various approaches and development of skill in interpreting assessment and feedback. Students are expected to develop their own styles of assessment and feedback. Students will also design and prepare the Interpreting section of their Mentoring Portfolios and design their Internship project. Topics include ASL, English Signing, Oral, and Cueing. Prereq., SLHS 5105 and demonstrated expertise as interpreter between spoken and signed languages.

Section 581 Elizabeth Winston, PhD Call Number: 30206
Tuition: \$630

Term dates: January 13-May 8, 2003

WRITING AND RHETORIC

Topics in Writing

WRTG 3020-3

Each instructor assigns two or more readings on a given topic. Students choose an essay, abstract its argument, analyze it, and agree or disagree with the author. They thus learn the principal modes of academic rhetoric: description, analysis, and argument. Restricted to arts and sciences juniors and seniors. Same as NRLN 3020. Approved for arts and sciences core curriculum: written communication.

American Culture

Section 581 Rosalyn Zigmond, MA Call Number: 30209
Tuition: \$510

Biomedical Ethics

Section 582 Donald Wilkerson, MA Call Number: 30210
Tuition: \$510

American Culture

Section 583 Rosalyn Zigmond, MA Call Number: 30390
Tuition: \$510

Term dates: January 21-May 8, 2003

Writing on Business and Society

WRTG 3040-3

Through selected readings and daily writing assignments, students examine ethical and social issues that arise in business. Focusing on critical thinking, analytical and argumentative writing, and oral presentation, the course emphasizes effective communication with nontechnical audiences. Classes are conducted as workshops. Restricted to junior and senior business or economics majors. Approved for arts and sciences core curriculum: written communication.

Section 581 Anne Bliss, PhD Call Number: 30211
Tuition: \$510

Section 582 Amy Goodloe, MA Call Number: 30212
Tuition: \$510

Section 583 Amy Goodloe, MA Call Number: 30213
Tuition: \$510

Term dates: January 21-May 8, 2003

High School Independent Learning

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

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

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

BUSINESS EDUCATION

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

ENGLISH

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

HOME ECONOMICS

HFCS 1155 Personal Adjustment and Family Living

MATHEMATICS

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

SCIENCE

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

SOCIAL STUDIES

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

STUDY SKILLS

HSTS 0101 Effective Methods of Study

INDEPENDENT LEARNING – IT'S UP TO YOU.



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

ACCESS PROGRAM

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



We are currently accepting applications for Spring semester. Registration begins Friday, January 10 and classes begin Monday, January 13. Call 303-492-5148 for more information or visit the ACCESS web site at www.colorado.edu/conted/access.htm.

SUMMER SESSION

Are you thinking ahead to Summer 2003? Consider Summer Session at CU-Boulder.

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

Many students appreciate the opportunity to focus on math, biology, chemistry or physics during the summer. Have you always wanted to take a drawing, painting or art history class? Summer is the time. Interested in business, journalism, engineering or music classes? Enjoy Boulder in the summer and take advantage of more than 500 classes. Summer 2003 class listings will be available on the Web in early December.

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



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

DEGREE COMPLETION PROGRAM

Students who have earned a two-year associate's degree or who have not completed their traditional bachelor's program have an opportunity to complete their degrees through a special new program at the University of Colorado at Boulder. In cooperation with the CU-Boulder College of Arts and Sciences, the Division of Continuing Education is now offering a unique degree completion program that will allow students to earn a bachelor's degree with a distributed studies major from CU-Boulder.

Areas of emphasis available are English, history, psychology, and sociology through the Boulder Evening Program and English and psychology through the Independent Learning Program. Interested students should call 303-492-8252 to make an appointment with an advisor or visit the web site at www.colorado.edu/conted/degree.htm.

HIGH SCHOOL CONCURRENT PROGRAM

If you are a high school student interested in the challenge of university coursework, you can enroll in credit courses at the University of Colorado at Boulder. In addition, you may be able to use the credit you earn toward high school graduation requirements and for college credit. Participation in the High School Concurrent Program requires written permission from your high school counselor and parent/guardian.

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. Call 303-492-6226 for an application and more information or visit the High School Concurrent web site at www.colorado.edu/conted/hsconcur.htm.



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

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

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



Registration for the spring 2003 semester is December 2-31. For additional information about CATECS, courses offered, and registration, contact the CATECS office at 303-492-6331 or visit the CATECS web site at www.colorado.edu/CATECS.

There's a lot going on in Itza Zavala's Beginning Spanish Conversational Skills class. Not only do you develop (and practice!) your ability to speak another language, but you learn all about Mexican and Spanish culture from a native resident of Mexico City. "For me, teaching Spanish is a great opportunity to make contact between cultures and languages. And I enjoy teaching Continuing Ed classes because the students are very interested in the subject. Plus, I love when people want to learn about other cultures!"

*"Continuing Ed students
inspire me because
they know it's never
too late to learn
new skills."*

ITZA ZAVALA
BEGINNING SPANISH



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

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

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

Foreign Language Classes

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

Fine Arts Classes

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

Proof of Completion

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

Scholarships

Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. December 9 is the spring application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/scholar.htm.

Faculty/Staff Registration

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



28

FINE ARTS

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

30

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

32

MATHEMATICS

- Pre-College Mathematics

32

THEATRE

- Acting Basics
- Shakespeare: Page to Stage

32

WRITING

- Creative Writing
- Creative Writing Workshop
- Poetry Workshop
- Short Story Workshop

33

GETTING PUBLISHED SERIES

- How to Write Magazine Articles...and Get Them Published
- How to Sell What You Write to a Publisher
- The Children's Book: Write It, Illustrate It, Publish It!
- The Writer's Process: From Inspiration to Publication

FINE ARTS

Introduction to Drawing

NCFA 020

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

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

Section 500: Tuesdays, January 28-March 18, 6:30-8:30 p.m., Fine Arts C153. 8 sessions. \$186.

Figure Drawing

NCFA 005

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

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

Section 500: Wednesdays, January 29-March 19, 6:30-8:30 p.m., Fine Arts N298. 8 sessions. \$186.

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

Section 500: Mondays, January 27-March 17, 6:30-8:30 p.m., TBA. 8 sessions. \$186.

Introduction to Oil Painting

NCFA 028

In this introductory course, students will gain an understanding of fundamental color theory and basic oil painting materials and methods, such as using mediums to ensure that paintings don't crack over time. Studio time will include work with observing and representing light, choosing and mixing color, developing interesting compositions, and creating the illusion of space. Development will be encouraged through individualized instruction and group discussions. Call 303-492-5148 for a supply list. The estimated cost for the materials is \$130-\$200. Complete, discounted kits are available at Art Hardware (1135 Broadway) for approximately \$140. Please bring all materials to the first class meeting. No previous painting experience is necessary.

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

Section 500: Tuesdays, January 28-March 18, 6:30-8:30 p.m., Fine Arts N103. 8 sessions. \$186.

Intermediate Oil Painting

NCFA 036

In this hands-on painting course, students will build on their understanding of fundamental color theory and basic oil painting materials and methods, choosing their own subject matter and exploring their own sensibilities. Classes will consist of intensive painting time, individualized instruction, and group discussions, in a shared atmosphere of exploration. 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 materials to the first class meeting.

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

Section 500: Tuesdays, April 1-May 6, 6:30-8:30 p.m., Fine Arts N103. 6 sessions. \$130.

Papermaking

NCFA 128

Paper – we use tons of it without seriously considering how it is made, what it is made of, and the creative potential it holds. This class introduces the basic properties of paper and how to make it. We will use a variety of fibers and techniques from around the world. We will also explore beating techniques for different fibers, sheet forming techniques and tools, pulp painting, and pulp spraying. Come prepared to dive right in, get wet, and be creative.

Betsy Dollar, BFA and MFA from CU-Boulder, has been fascinated with papermaking since the early 1980s and has shared her love of papermaking with students of all ages.

Section 500: Saturdays, February 1-22, 10 a.m.-2 p.m., Fine Arts C1B70. 4 sessions. \$204.

Basic Sculpture

NCFA 054

Designed for students of all levels, this class covers the fundamental principles and design elements of sculpture. Students will use a variety of tools and materials for basic modeling, building and sculptural fabrication techniques. Depending on students' interests, demonstrations may include the use and application of clay, stone, plaster, metal and wood. Supplies will cost approximately \$35-\$40. Call 303-492-5148 for a supply list. Please bring the modeling tool, the clay, and the raw canvas to the first class meeting.

Barbara Cox, MA/BFA, is a local sculptor in stone and wood who has a master's degree in Jungian psychology, a BFA in three dimensional sculpture, and a teaching certificate in art education. She has taught art classes and has inspired students since 1975.

Section 500: Wednesdays, January 29-March 19, 6:30-8:30 p.m., Fine Arts C102. 8 sessions. \$186.



Need an outlet for your creativity?

How about a Personal Enrichment class?

Susannah Pollvogt took Robert McBrearty's

Short Story Writing. "As an attorney,

I am constantly writing in a detached,

analytical style; I wanted to preserve the

part of me that is creative and poetic.

I highly recommend the course. For

someone with a story they are trying to get

on paper, the workshop format is ideal."

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 techniques, such as, reducing the stone block, pitching and punching, rubbing and polishing. We will also view a slide show of stone sculptures throughout the centuries. In the first class, we will discuss tools and materials, and where to purchase them. Supplies will cost approximately \$35-\$40. Call 303-492-5148 for a supply list.

Barbara Cox, MA/BFA, is a local sculptor in stone and wood who has a master's degree in Jungian psychology, a BFA in three dimensional sculpture, and a teaching certificate in art education. She has taught art classes and has inspired students since 1975.

Section 500: Mondays, January 27-March 17, 6:30-8:30 p.m., Fine Arts C102. 8 sessions. \$186.

(Fine Arts continued)

Continuing Ed classes are ideal for trying new disciplines or brushing up rusty skills. For Chris Chrisbens, the short story writing course may be a springboard to a new career. "The short story class is a great way to introduce myself to writing and the creative process, and to determine if I have any talent. And the instructors' enthusiasm is contagious!" If you've been meaning to try something new, look through the catalog and register!

Fearless Basic Photography NCFA 001

Come prepared to have fun while learning how to operate your 35mm SLR camera. We will cover f-stops, shutter speeds, film, exposure, lenses, filters, flash, simple lighting techniques, composition, alternative shooting techniques, and ways of "seeing." For weekly assignments, you will be shooting color slide film and will be encouraged to share your images to receive feedback from the class. A minimum of six rolls of color slide film is required to complete all assignments (approximate cost is \$85 for film and processing). Bring your 35mm SLR camera and enthusiasm for learning a new skill. No experience necessary!

Mia Semington, MFA in photography from CU-Boulder, teaches photography for the CU fine arts department and has exhibited her work nationally and internationally.

Section 500: Tuesdays, January 28-March 18, 6:30-9 p.m., Ketchum 120. 8 sessions. \$220.

Creative Photography Workshop NCFA 002

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

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

Section 500: Thursdays, February 6-April 3, 7:30-9:30 p.m., Economics 2. 9 sessions. \$223.

FOREIGN LANGUAGES

Chinese: Beginning Conversational and Written Skills NCFL 108

This course will teach Mandarin Chinese and will emphasize 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.

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

Section 500: Wednesdays, January 29-March 19, 6:30-8:30 p.m., Hellems 141. 8 sessions. \$186.

Chinese: Conversational and Written Skills for Advanced Beginners NCFL 208

This course is a continuation of Mandarin instruction. 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.

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

Section 500: Thursdays, January 30-March 20, 6:30-8:30 p.m., Hellems 251. 8 sessions. \$186.

French: Beginning Conversational Skills NCFL 100

Designed for students with little or no knowledge of French, this course introduces grammar but emphasizes conversational skills. Students will learn the present tense of "er" verbs and a few common irregular verbs, recent past and near future tense. We will also cover cultural aspects of French life and practical conversation for travelers. Text, *Parlons Francais I*, is available at the CU Bookstore. There will be in-class handouts complimenting the textbook. No class on March 25th.

Nadia Turk, PhD, has taught French and Arabic at CU-Boulder since 1982.

Section 500: Tuesdays, January 28-April 3 (skip March 25), 6:30-8:30 p.m., Hellems 191. 10 sessions. \$230.

French: Conversational Skills for Advanced Beginners NCFL 200

Students should be able to use the present tense before taking this class. Also we will learn more irregular verbs in the present tense, cover pronominal verbs, and the past tense of both regular and irregular verbs. We will stress increased vocabulary and speaking skills. Textbook, *Parlons Francais II*, is available at the CU bookstore. There will be in class handouts complimenting the textbook. No class on March 27th.

Nadia Turk, PhD, has taught French and Arabic at CU-Boulder since 1982.

Section 500: Thursdays, January 30-April 10 (skip March 27), 6:30-8:30 p.m., Hellems 185. 10 sessions. \$230.

German: Beginning Conversational Skills NCFL 101

Designed for students with little to no experience with the language, this course will prepare students to use German practically and effectively. By covering essential grammar, emphasizing speaking skills, building a large working vocabulary, and discussing cultural and geographical elements, students will not only gain a knowledge of the language, but also a more complete sense of life in Germany today. Perfect for those who intend to travel to a German-speaking country in the future.

Kathryn Tisdale, BA/MA in German from CU-Boulder, speaks German and Spanish and spent five months living in Switzerland.

Section 500: Thursdays, January 30-March 20, 6-8 p.m., Hellems 211. 8 sessions. \$186.

Italian: Beginning Conversational Skills NCFL 102

This class will emphasize speaking skills for a variety of situations. We will begin with the essentials of pronunciation, develop vocabulary and learn crucial phrases and idioms needed for everyday communication. We will also cover present tense of verbs, differentiating formal from familiar address and gender, examine cultural topics, and view videos.

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

Section 501: Wednesdays, January 29-March 19, 6-8 p.m., Hellems 181. 8 sessions. \$186.

Tina Pugliese, MA in Foreign Languages and Cinema Study from the University of Rome, is a native of Italy. She has taught Italian classes to non-Italian students in private schools in Rome. Tina teaches all levels of Italian at CU.

Section 502: Mondays, January 27-March 17, 6-8 p.m., Ketchum 119. 8 sessions. \$186.

Japanese: Beginning Conversational and Written Skills NCFL 104

This course is designed for those with little or no knowledge of Japanese, and stresses the importance of pronunciation and the polite and day-to-day language customs. You will learn to read and write Katakana or one of the two Japanese alphabets, and will be introduced to Kanji or Chinese characters. By the end of this course, you will be able to greet people, introduce yourself, order at a restaurant, ask for phone numbers, and ask what time it is and respond appropriately.

Naoko Asada, BS, is a native of Japan and teaches Japanese language courses for the CU-Boulder Department of East Asian Languages and Civilizations.

Section 500: Mondays and Wednesdays, January 27-February 19, 6-8 p.m., Ketchum 120. 8 sessions. \$186.

Japanese: Conversational and Written Skills for Advanced Beginners NCFL 204

This course is designed for those with an introductory knowledge of Japanese, and continues the development of oral and written skills. You will learn the basic sentence structure of Japanese, Hiragana or one of the two Japanese alphabets, and more Kanji. By the end of this course, you will be able to talk about past, current and future daily activities and events, likes and dislikes, and the weather. You will also be able to make appropriate conversations in order to shop and dine.

Naoko Asada, BS, is a native of Japan and teaches Japanese language courses for the CU-Boulder Department of East Asian Languages and Civilizations.

Section 500: Mondays and Wednesdays, February 24-March 19, 6-8 p.m., Hale 240. 8 sessions. \$186.

Portuguese: Beginning Conversational Skills NCFL 106

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

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

Section 500: Wednesdays, January 29-March 19, 6:30-8:30 p.m., TBA. 8 sessions. \$186.

Spanish: Beginning Conversational Skills NCFL 103

Designed for students with little or no knowledge of Spanish, this course emphasizes conversational skills. We will cover present tense and learn vocabulary about food, restaurant dining, family, hotel, and vacations. We will also examine culture aspects of Spanish-speaking countries, view videos and listen to Spanish music.

Nuria Godon, PhD student in Spanish Literature at CU-Boulder, is a native of Spain and teaches introductory Spanish classes on campus.

Section 501: Mondays and Wednesdays, January 27-February 29, 6:30-8:30 p.m., Hellems 251. 8 sessions. \$186.

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

Section 502: Tuesdays, January 28-March 18, 7-9 p.m., Hellems 193. 8 sessions. \$186.

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

Section 503: Wednesdays, January 29-March 19, 6:30-8:30 p.m., Hellems 191. 8 sessions. \$186.

Spanish: Conversational Skills for Advanced Beginners NCFL 203

In this course, we will learn past tense and practice present tense while developing accuracy and proficiency in the use of conversational Spanish. We will cover practical vocabulary about travel, airports, hobbies, sports, personal care and housework, and also examine culture aspects of Spanish-speaking countries, view videos, and listen to Spanish music.

Prerequisite: Beginning Spanish or equivalent.

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

Section 501: Tuesdays, January 28-March 18, 6:30-8:30 p.m., Ketchum 118. 8 sessions. \$186.

Nuria Godon, PhD student in Spanish Literature at CU-Boulder, is a native of Spain and teaches introductory Spanish classes on campus.

Section 502: Mondays and Wednesdays, February 24-March 19, 6:30-8:30 p.m., Hellems 193. 8 sessions. \$186.

(Foreign Languages continued)

Spanish: Intermediate Conversational Skills

NCFL 303

An opportunity to build vocabulary, develop conversational skills and address cultural and social aspects of Spanish-speaking countries. We will review and cover new grammar depending on students' interests and suggestions. Prerequisite: Beginning Spanish or equivalent. Required text: *Pasajes: Lengua*, by Bretz, available at the CU Bookstore.

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

Section 500: Thursdays, January 30-March 20, 7-9 p.m., Hellems 259. 8 sessions. \$186.

MATHEMATICS

Pre-College Mathematics

NC M 150

Whether you have always struggled with math, have forgotten most of it, or not quite sure where to begin, this class is for you. We will review pre-college algebra including polynomials, factoring, fractions, exponents, radicals, and linear inequalities. This course satisfies the CU-Boulder Minimum Academic Preparation Standards (MAPS) for mathematics as well as the State of Colorado's CCHE Statewide Remedial Education Policy requirement for mathematics.

Ryan Girard is a graduate student in Applied Mathematics at CU-Boulder. Prior to coming to Boulder, Ryan taught high school mathematics.

Section 500: Tuesdays and Thursdays, February 11-March 20, 6:30-8 p.m., Engineering Center CR 108. 12 sessions. \$180.

THEATRE

Acting Basics

NCTH 017

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

Anna Andes is a graduate student in Theatre at CU-Boulder. She teaches beginning acting classes for the department.

Section 500: Mondays, January 27-March 17, 6:30-8:30 p.m., Economics 2. 8 sessions. \$176.

Shakespeare: Page to Stage

NCTH 005

Get a sneak preview of the 2003 Colorado Shakespeare Festival! Drawing on the four plays that will be produced in the 2003 season, this course will focus on the creative process of moving a classical play from the page to the stage. Participants will examine *The Taming of the Shrew*, *Hamlet*, *Much Ado About Nothing*, and *Cymbeline* as both literature and theatre, exploring how key elements in the text are translated in performance. You will also have an opportunity to meet with actors and artistic staff of the Colorado Shakespeare Festival for an informal discussion of the artistry involved in making a classical play come alive for contemporary audiences.

Melinda J. Scott, BFA from CU-Boulder, is the educational director for the CSF and has been a theatre practitioner for two decades. Melinda has taught and directed for the Boulder Conservatory Theatre serving as a member of their artistic team for two years.

Section 500: Wednesdays, February 19-March 19, 7-9 p.m., Clare Small 104. 5 sessions. \$110.

WRITING

Creative Writing

NC W 006

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

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

Section 500: Wednesdays, January 29-March 19, 7-9 p.m., Hellems 263. 8 sessions. \$176.

Creative Writing Workshop

NC W 106

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

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

Section 500: Thursdays, January 30-March 20, 7-9 p.m., Hellems 271. 8 sessions. \$176.

Poetry Workshop

NC W 042

This course will give you the opportunity to write in an informal, relaxed environment with other writers. We will focus on the reading and writing of poetry through writing exercises and discussions of various topics, such as what it means to be a writer and what makes a poem work. In addition, we will be reading from the work of a few contemporary poets each week. You will also have the chance to share your work and receive feedback within periodic workshops. Whether you have been writing poetry for years or have never written a poem, this course will allow you to explore your creativity, develop your knowledge of contemporary poetry, and participate in a workshop with other writers.

Jill Talbot is a graduate student in Creative Writing at CU-Boulder. She earned a PhD in American Literature from Texas Tech University where her interests centered on contemporary American fiction and, in particular, the "road narrative".

Section 500: Mondays, January 27-March 17, 6:30-8:30 p.m., Hellems 259. 8 sessions. \$176.

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, MFA from the Iowa Writers' Workshops, has recently published a collection of short stories, A Night at the Y.

Section 500: Tuesdays, January 28-March 11, 6:45-8:45 p.m., Hellems 263. 7 sessions. \$154.

GETTING PUBLISHED SERIES

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

Join us this spring and learn from successful authors on how they have gotten their words in print. Hear about their successes and failures, inspirations and determination, tips and techniques. Enroll in two or more of these classes and get 25% off the second, third or fourth class!

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

NC W 005

Got an idea for a magazine article you've been itching to develop? Think you could write livelier, more readable articles than what you see in magazines? From sure-to-sell query letters to sure-to-happen publication, learn all the steps to successful magazine article writing and sales in this six week course. The instructor works with you and your article on a one-on-one basis.

Nancy Rasmussen has taught magazine article writing for 13 years and has published over 60 articles in national and local publications. She currently writes and proofreads for the CU-Boulder alumni magazine, The Coloradan.

Section 500: Tuesdays, February 11-March 18, 6:30-8:30 p.m., Hellems 271. 6 sessions. \$132.

How to Sell What You Write to a Publisher

NC W 090

How do you convince a reputable publisher to publish your book? Should you hire an agent, or negotiate a contract yourself? How do you find a good agent? Through this informative and entertaining one-day workshop, you will learn what editors are looking for before starting your project. You will learn how to create a winning book proposal and sell your idea before completing the project. You will also have the opportunity to have your ideas and proposals critiqued in class.

Ying Compestine has sold eight books to three major publishers, both with and without an agent. She is a regular contributor to national magazines and frequently lectures on writing at literary conferences and aboard cruise ships.

Section 500: Saturday, February 22, 9 a.m.-4 p.m., Continuing Education Center 140. 1 session. \$100.

The Children's Book: Write It, Illustrate It, Publish It!

NC W 012

Ever dreamed of writing or illustrating a children's book? In this one day workshop, learn the entire process, from the cultivation of ideas to the published work. We'll cover manuscript development, illustration techniques, picture layouts, self-publishing and submitting manuscripts to publishing companies. We'll take an in depth look at how straightforward and profitable it is to self-publish your own work. Feel free to bring your own art or writing for instructor support and advice. Don't be shy! This will be a fun and safe place to share your work.

Kerry Lee MacLean, BA, has written, illustrated and successfully self-published 6 books, including two award-winners, Pigs Over Denver and Pigs Over Boulder.

Section 500: Saturday, March 8, 9 a.m.-4 p.m., Continuing Education Center 140. 1 session. \$100.



It's never too late to learn something new. Just ask Peggy Warren. At an age when most people slow down, she keeps challenging her mind and sparking her creativity with more Continuing Education courses, the latest being Short Story Writing. "It's an exciting school, and I'm thrilled to be a part of it. The courses are wonderful. I always find something interesting to study."

The Writer's Process: From Inspiration to Publication

NC W 121

This interactive, one day workshop is for people who've always wanted to write and write well. We will cover everything from writing from personal style and overcoming writer's block to common grammatical issues, successful query letters, and dealing with rejection. Also learn about the many freelance writing opportunities available. You will take home information on valuable web sites, books and conferences.

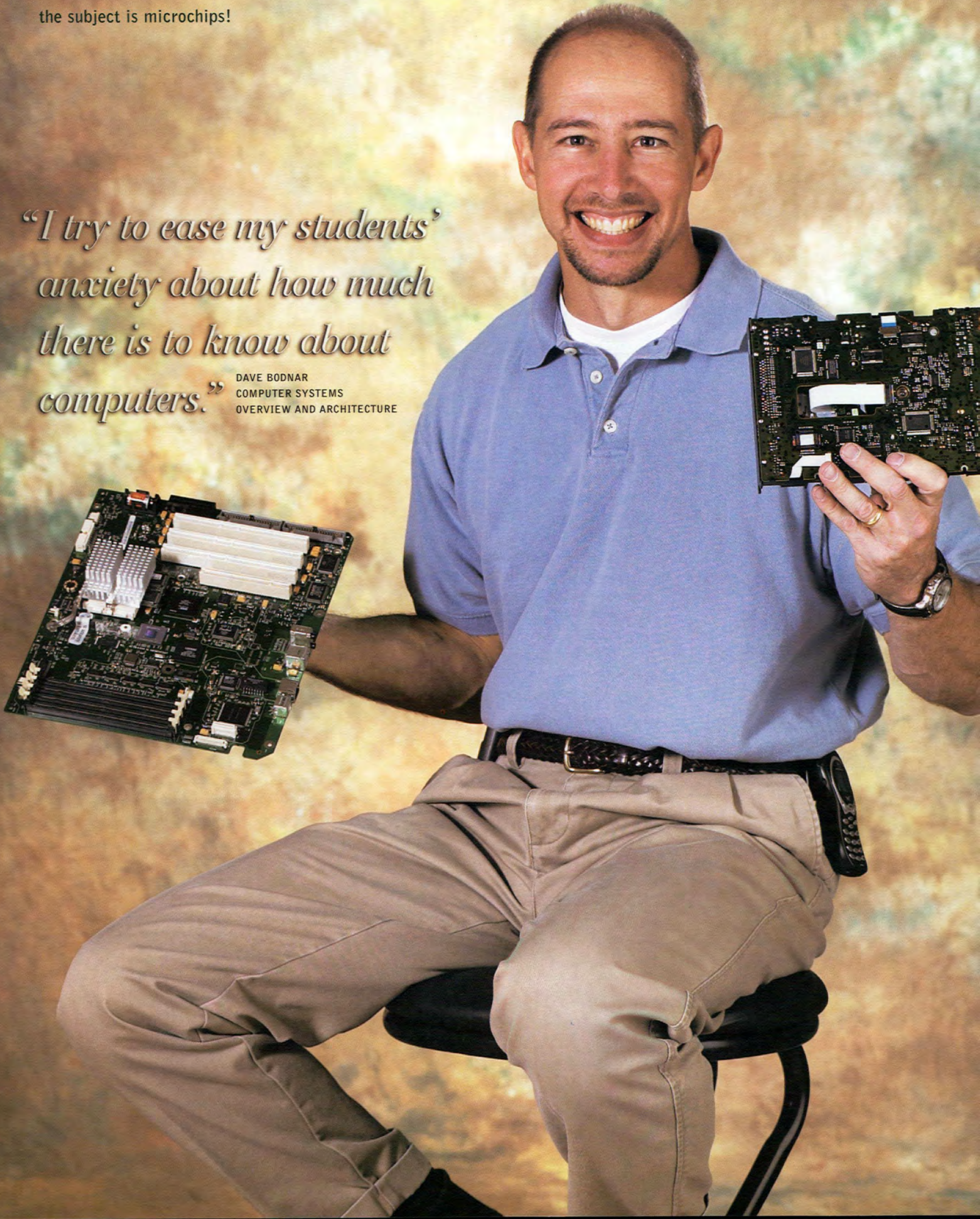
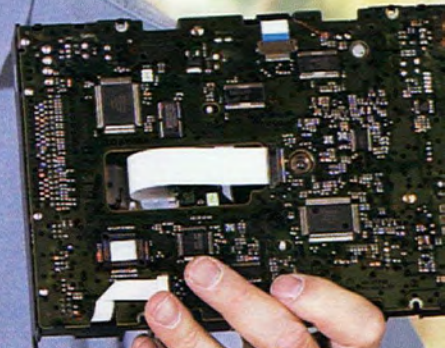
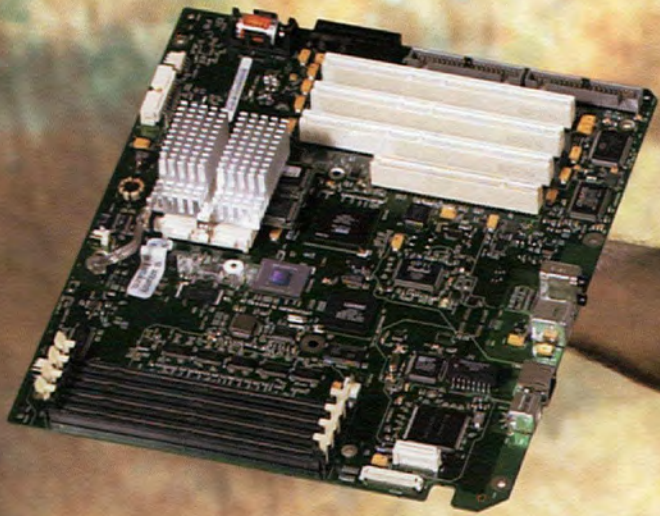
Ellen Mahoney, BS in Journalism and MEd, has been writing for over 20 years with Disney, MCA/Universal, Columbia Pictures and LucasArts. She has had several books published including novelty books for children and non-fiction for teenagers.

Section 500: Saturday, April 5, 9 a.m.-4 p.m., Continuing Education Center 140. 1 session. \$100.

Dave Bodnar describes what he teaches as "trying to explain what's going on inside the box." His computer class is unique since it's not about learning a specific program, but about learning what computers do. "I help students understand what the components do and how, so they are more comfortable." He does this by relating the technical aspects of computers to things students are already familiar with. And the class discussions get pretty lively – even when the subject is microchips!

"I try to ease my students' anxiety about how much there is to know about computers."

DAVE BODNAR
COMPUTER SYSTEMS
OVERVIEW AND ARCHITECTURE



COMPUTERS have become an integral part of our everyday lives: for work, research, communication, planning and record keeping, creative endeavors, or just for keeping in touch with family and friends. So, learn how to do what you need to do better, faster and more easily.

Our program can help you:

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

Certificate Programs

Certificate programs in Web Graphics, Network Administration, Web Site Design and Programming are also available. These certificates are designed for beginners, as well as those with intermediate skills in these areas of study. The courses required for each certificate offer a mix of in-depth theoretical knowledge and real-world experience. Upon completion of any one of these certificates, students should have a good understanding of the basic skills and concepts needed for an entry-level position in that field. See pages 50-51 for certificate information.

Workshops

We offer short and convenient workshops designed to enhance the users' skills in a specific area of interest in which they have already had prior training, experience or background. These informal workshops give the student more time to interact with the instructor and other students in class. See page 52 for workshop information.

GENERAL COURSE INFORMATION

All computer applications courses are noncredit and do not apply toward any degree programs. Our courses are taught by top-notch professionals who are experts in their fields.

Prerequisites

Prerequisites are listed at the end of each course description. To ensure that you get the most out of class, **prerequisite(s) should be completed before you attend the course.** Equivalent experience and/or course(s) from another institution may be accepted in place of the prerequisite(s). If you are unsure you have the necessary background to satisfy the prerequisite requirement, please call 303-492-6596.

Grading Policy

There are two levels of grading depending on the student's purpose for taking the course. The first level is mandatory for anyone seeking to complete one of the certificate programs. Students in this level are assigned a satisfactory (S) or unsatisfactory (U) mark at the end of the course based on their attendance, quizzes, and/or completion of homework assignments. This level is also recommended for those wanting to get the most out of their course. The second level of grading is for students not wanting to be assessed at all. These students will receive a no credit (NC) mark.

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

Textbooks

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

OTHER 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 in the course descriptions. The majority of courses offered through the Computer Applications Program are held at the following locations:

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

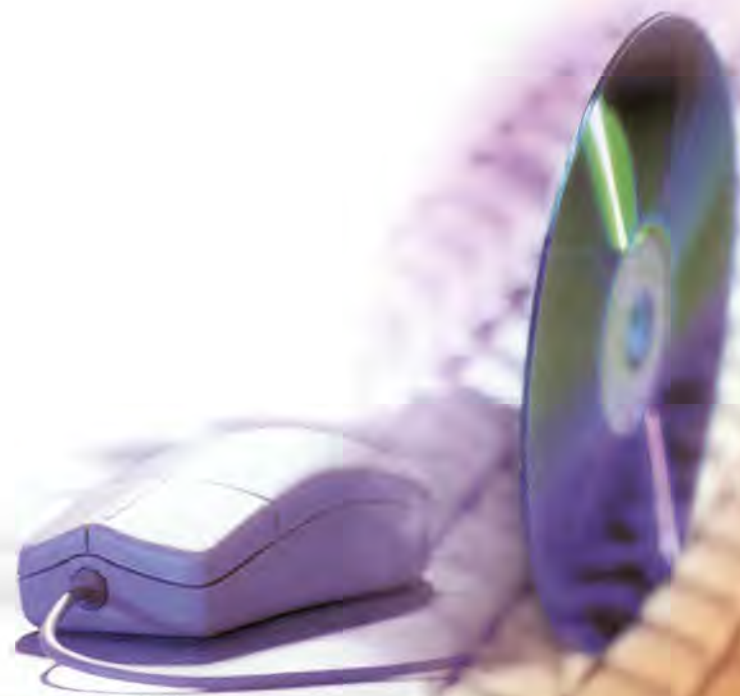
Refer to the map on page 57 for other course locations.

Drop Deadlines and Refund Policy

Once you enroll, it is your responsibility to attend the course or drop from it in a timely manner. To receive a refund, you must drop the course **three business days** before it begins. **No refunds will be issued after this time.**

Course Cancellations

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




CU-Boulder Faculty, Staff and Student Discounts

CU-Boulder faculty, staff and students are eligible for a 25% tuition discount. To qualify as a faculty or staff member, you must be a permanent employee with at least a 50% appointment. A copy of a current employment record is required to receive this discount. To qualify as a student, you must be enrolled for credit courses at least half-time through CU-Boulder. Call 303-492-5148 for more information.

Scholarships

Students who are 25 years of age or older may be eligible for the Nontraditional Student Scholarship for Continuing Education courses. December 9 is the application deadline. Scholarships can be awarded up to \$365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/conted/scholar.htm.

Notes

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

The course descriptions in this catalog are brief. For a detailed overview of each course, go to www.colorado.edu/conted/computer.htm. Select a course and click on Course Overview at the end of the course description.

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

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

Course Guide

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Applications...Course descriptions begin on page 38					
Windows 2000	CAAP 2131-500	01/21/03	01/23/03	9 a.m.-2:30 p.m.	2
Windows XP	CAAP 2141-500	02/03/03	02/06/03	9 a.m.-2:30 p.m.	2
Excel 2000 Level I	CAAP 2321-500	01/27/03	01/27/03	9 a.m.-4 p.m.	1
Excel 2000 Level II	CAAP 3321-500	02/12/03	02/12/03	9 a.m.-4 p.m.	1
Excel 2002 Level I	CAAP 2331-500	02/04/03	02/04/03	9 a.m.-4 p.m.	1
Access 2000 Level I	CAAP 2421-501	01/29/03	02/05/03	9 a.m.-4 p.m.	2
Access 2000 Level I	CAAP 2421-502	02/17/03	02/20/03	9 a.m.-4 p.m.	2
Access 2000 Level II	CAAP 3421-500	02/25/03	02/25/03	9 a.m.-4 p.m.	1
Access 2002 Level I	CAAP 2431-500	02/19/03	02/26/03	9 a.m.-4 p.m.	2
Database Design Concepts	CAAP 4501-500	02/10/03	02/19/03	6 p.m.-9 p.m.	4
Relational Database Concepts and SQL Programming	CAAP 4502-501	01/27/03	02/13/03	6 p.m.-9 p.m.	6
Relational Database Concepts and SQL Programming	CAAP 4502-502	04/02/03	05/07/03	6 p.m.-9 p.m.	6
Graphics...Course descriptions begin on page 39					
Computer Art	CAGR 1021-500	01/28/03	01/30/03	6 p.m.-9 p.m.	2
Introduction to Graphic Design	CAGR 1121-500	01/25/03	01/25/03	9 a.m.-5 p.m.	1
Introduction to Photoshop 7	CAGR 2111-500	02/01/03	02/08/03	9 a.m.-4 p.m.	2
Introduction to Photoshop 7	CAGR 2121-500	02/10/03	02/20/03	6 p.m.-9 p.m.	4
Photoshop 7 for the Web	CAGR 3121-500	03/10/03	03/20/03	6 p.m.-9 p.m.	4
What's New in Photoshop 7	CAGR 4121-500	02/04/03	02/11/03	6 p.m.-9 p.m.	3
Illustrator 10 Level I	CAGR 2211-500	02/22/03	03/01/03	9 a.m.-4 p.m.	2
Illustrator 10 Level II	CAGR 3221-500	03/08/03	03/15/03	9 a.m.-4 p.m.	2
Macromedia Director 8 Shockwave Studio	CAGR 3321-500	02/18/03	03/11/03	6 p.m.-9 p.m.	4
Macromedia Fireworks	CAGR 3511-500	03/04/03	04/01/03	6 p.m.-9 p.m.	4
Web Graphics Project	CAGR 9001-500	04/07/03	05/05/03	6 p.m.-9 p.m.	5
Networking...Course descriptions begin on page 41					
Introduction to Networks	CANW 1001-500	01/27/03	02/05/03	6 p.m.-9 p.m.	4
Computer Systems Overview and Architecture	CANW 3103-500	01/21/03	01/30/03	6 p.m.-9 p.m.	4
Operating Systems	CANW 4102-500	02/03/03	02/19/03	6 p.m.-9 p.m.	6
Network Administration	CANW 5101-500	02/24/03	03/05/03	6 p.m.-9 p.m.	4
Local and Wide Area Networking Topics	CANW 5402-500	03/04/03	03/18/03	6 p.m.-9 p.m.	5
Introduction to Windows 2000 Administration	CANW 2211-500	03/04/03	04/01/03	6 p.m.-9 p.m.	4
Intermediate Windows 2000 Administration	CANW 3211-500	04/08/03	05/06/03	6 p.m.-9 p.m.	5
UNIX Survival Skills	CANW 1301-500	01/22/03	02/19/03	6 p.m.-9 p.m.	5
Introduction to UNIX	CANW 2301-500	01/21/03	02/11/03	6 p.m.-9 p.m.	7
Intermediate UNIX	CANW 3301-500	02/13/03	02/27/03	6 p.m.-9 p.m.	5
Security Essentials and Network Design	CANW 4401-500	03/31/03	04/16/03	6 p.m.-9 p.m.	6
UNIX System Administration	CANW 5301-500	04/21/03	05/05/03	6 p.m.-9 p.m.	5

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Programming...Course descriptions begin on page 43					
Introduction to Programming I	CAPR 1001-500	01/25/03	02/12/03	9 a.m.-4 p.m.	6
Introduction to Programming II	CAPR 2101-500	03/01/03	03/19/03	9 a.m.-4 p.m.	6
Introduction to Application Programming	CAPR 2201-500	01/28/03	03/18/03	6 p.m.-9 p.m.	8
Intermediate Application Programming	CAPR 3201-500	04/01/03	05/06/03	6 p.m.-9 p.m.	6
Algorithm Design	CAPR 3202-500	01/29/03	03/19/03	6 p.m.-9 p.m.	8
Introduction to Object-Oriented Programming in C++	CAPR 2102-500	01/28/03	03/04/03	6 p.m.-9 p.m.	6
Intermediate/Advanced C++ Programming	CAPR 4101-500	03/13/03	05/08/03	6 p.m.-9 p.m.	8
Introduction to Object-Oriented Programming Using Java	CAPR 2601-500	01/27/03	03/10/03	6 p.m.-9 p.m.	7
Java for Object-Oriented Experienced Programmers	CAPR 3601-500	03/17/03	05/05/03	6 p.m.-9 p.m.	7
Advanced Java Programming Language Topics	CAPR 4604-500	01/27/03	03/10/03	6 p.m.-9 p.m.	7
GUI Programming in Java	CAPR 5601-500	01/28/03	03/11/03	6 p.m.-9 p.m.	7
Developing Web Applications in Java	CAPR 5602-500	01/29/03	03/12/03	6 p.m.-9 p.m.	7
Java Best Practices and Performance Tuning	CAPR 5606-500	04/03/03	04/24/03	6 p.m.-9 p.m.	4
Object-Oriented Design Patterns	CAPR 5401-500	04/19/03	04/19/03	9 a.m.-4 p.m.	1
Object-Oriented Analysis and Design	CAPR 5402-500	04/05/03	04/12/03	9 a.m.-5 p.m.	2
Introduction to Hands-On Visual Basic Programming	CAPR 2301-500	03/10/03	03/31/03	6 p.m.-9 p.m.	5
Intermediate Hands-On Visual Basic Programming	CAPR 3301-500	04/05/03	04/19/03	9 a.m.-4 p.m.	3
Visual Basic .NET Programming Concepts	CAPR 4301-500	04/26/03	05/10/03	9 a.m.-4 p.m.	3
Introduction to Software Project Management	CAPR 5501-500	02/06/03	02/27/03	6 p.m.-9 p.m.	4
Introduction to PERL for Programmers	CAPR 2701-500	04/07/03	05/05/03	6 p.m.-9 p.m.	5
Extensible Markup Language (XML)	CAPR 3701-500	04/02/03	04/23/03	6 p.m.-9 p.m.	4
Technical Tour of .NET and C#	CAPR 3703-500	03/15/03	03/15/03	9 a.m.-4 p.m.	1
Web Services and Simple Object Access Protocol (SOAP)	CAPR 3704-500	05/03/03	05/03/03	9 a.m.-5 p.m.	1
Web...Course descriptions begin on page 47					
Internet Fundamentals	CAWB 1001-500	01/21/03	01/23/03	6 p.m.-9 p.m.	2
Internet Applications	CAWB 2101-500	01/28/03	02/04/03	6 p.m.-9 p.m.	3
Design Techniques for Web Sites	CAWB 3101-501	02/06/03	02/20/03	6 p.m.-9 p.m.	3
Web Server Administration	CAWB 3102-500	02/26/03	03/19/03	6 p.m.-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-501	01/22/03	02/12/03	6 p.m.-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-502	02/24/03	03/06/03	6 p.m.-9 p.m.	4
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-501	02/19/03	03/05/03	6 p.m.-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-502	03/11/03	04/01/03	9 a.m.-12 p.m.	3
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-501	03/10/03	03/20/03	6 p.m.-9 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-502	04/16/03	05/07/03	6 p.m.-9 p.m.	4
Hypertext Mark-up Language (HTML) Version 4	CAWB 5311-500	03/13/03	03/20/03	6 p.m.-9 p.m.	2
Introduction to JavaScript	CAWB 2701-501	01/27/03	02/17/03	6 p.m.-9 p.m.	4
Introduction to JavaScript	CAWB 2701-502	03/31/03	04/21/03	6 p.m.-9 p.m.	4
Intermediate JavaScript	CAWB 3702-500	03/12/03	04/09/03	6 p.m.-9 p.m.	4
Advanced JavaScript	CAWB 4701-500	04/15/03	05/06/03	6 p.m.-9 p.m.	4
Introduction to Motion Graphics Using Flash MX	CAWB 2511-500	01/28/03	02/06/03	6 p.m.-9 p.m.	4
Intermediate Motion Graphics Using Flash MX	CAWB 3512-500	02/11/03	02/25/03	6 p.m.-9 p.m.	5
Dreamweaver MX	CAWB 2611-501	01/25/03	02/15/03	9 a.m.-12 p.m.	4
Dreamweaver MX	CAWB 2611-502	04/03/03	04/24/03	6 p.m.-9 p.m.	4
ColdFusion MX	CAWB 2811-500	03/03/03	03/20/03	6 p.m.-9 p.m.	6
Web Site Design Project	CAWB 9001-500	04/10/03	05/08/03	6 p.m.-9 p.m.	5
Workshops...Course descriptions begin on page 52					
Building Your Own Access Database	CAAP 0000-511	02/25/03	02/27/03	9 a.m.-2:30 p.m.	2
Building Your Own Access Database	CAAP 0000-512	03/11/03	03/13/03	9 a.m.-2:30 p.m.	2
Building Your Own Access Database	CAAP 0000-513	04/08/03	04/10/03	9 a.m.-2:30 p.m.	2
Creating Cool Web Buttons with Photoshop	CAGR 0000-511	02/24/03	02/24/03	11 a.m.-1 p.m.	1
Creating Web Backgrounds with Photoshop	CAGR 0000-512	02/25/03	02/25/03	11 a.m.-1 p.m.	1
Creating Panoramic Images with Photoshop	CAGR 0000-513	02/26/03	02/26/03	11 a.m.-1 p.m.	1
Creating Animations with Photoshop	CAGR 0000-514	02/27/03	02/27/03	11 a.m.-1 p.m.	1
Automating Processes with Photoshop	CAGR 0000-515	02/28/03	02/28/03	11 a.m.-1 p.m.	1

APPLICATIONS

Windows 2000

CAAP 2131

Learn how to set up your computer so the files and programs you use are at your fingertips. Topics to be covered include the file structure (where your files are), the basics required for working with any program, the various screen elements, and how to customize your screens. Also, learn to protect your work by creating backups. **Prerequisite: Fundamental knowledge of basic computer functions.**

Issy Kilbride

Section 500: Tuesday and Thursday, January 21 and 23, 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$275.

Windows XP

CAAP 2141

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

Chris Mattson, BS

Section 500: Monday and Thursday, February 3 and 6, 9 a.m.-2:30 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$275.

Excel 2000 Level I

CAAP 2321

Gain a clear understanding of how to use Excel to create simple, powerful spreadsheets. Learn how to create a workbook - from the initial idea to a finished, well-formatted document. Emphasis is placed on formula creation and concepts, entry shortcuts, editing and formatting, printing options, print preview and page setups. **Prerequisite: Proficiency with PCs and the Windows operating system.**

Chris Mattson, BS

Section 500: Monday, January 27, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$215.

Excel 2000 Level II

CAAP 3321

In this course, students learn more about Excel's security, automation and modification features, including automation through templates. Students learn invaluable techniques such as linking formulas, locking out edits, copying and pasting; and linking Excel data to other Windows programs using OLE as well as the database capabilities. **Prerequisite: CAAP 2321 Excel 2000 Level I** or equivalent.

Chris Mattson, BS

Section 500: Wednesday, February 12, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$215.

Excel 2002 Level I

CAAP 2331

Gain a clear understanding of how to use Excel to create simple, powerful spreadsheets. Learn how to create a workbook - from the initial idea to a finished, well-formatted document. Emphasis is placed on formula creation and concepts, entry shortcuts, editing and formatting, printing options, print preview and page setups. **Prerequisite: Proficiency with PCs and the Windows operating system.**

Chris Mattson, BS

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

Access 2000 Level I

CAAP 2421

Microsoft Access is a relational database used to manage information on many different levels for many purposes. This course will examine the Table object followed by the Query object. Students will learn how to create forms for efficient data display. Also covered is the use of Reports for grouping and printing of data, along with importing/exporting data and relational theory. Shortcuts, tips and tricks are offered throughout the course. **Prerequisite: Proficiency with PCs and the Windows operating system.**

Chris Mattson, BS

Section 501: Wednesdays, January 29 and February 5, 9 a.m.-4 p.m.

Issy Kilbride

Section 502: Monday and Thursday, February 17 and 20, 9 a.m.-4 p.m.

All Sections: 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$350.

Access 2000 Level II

CAAP 3421

This one-day course is loaded with useful techniques and information designed to advance the Access user into the intermediate realm. The student will work with more advanced query and form design, with emphasis on the use of related data across multiple related data sources. Focus is placed on the use of the property sheet instead of the Access wizards to customize objects. **Prerequisite: CAAP 2421 Access 2000 Level I, CAAP 2431 Access 2002 Level I** or equivalent.

Chris Mattson, BS

Section 500: Tuesday, February 25, 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 2002 Level I CAAP 2431

Microsoft Access is a relational database used to manage information on many different levels for many purposes. This course will examine the Table object followed by the Query object. Students will learn how to create forms for efficient data display. Also covered is the use of Reports for grouping and printing of data, along with importing/exporting data and relational theory. Shortcuts, tips and tricks are offered throughout the course. **Prerequisite: Proficiency with PCs and the Windows operating system.**

Chris Mattson, BS

Section 500: Wednesdays, February 19 and 26, 9 a.m.-4 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$350.

Database Design Concepts CAAP 4501

This course will cover the limits and complications of the common flat file list model. Students will learn "Normalizing" the flat file through "Normal Forms". Database integrity, table indexing, different types of table joins and when to use them will also be covered. This course paves the way for more advanced subject matter such as SQL programming. **Prerequisites: CAAP 2421 Access 2000 Level I, CAAP 2431 Access 2002 Level I** or equivalent and a good working knowledge of the Windows operating system. A basic understanding of Excel is recommended.

Chris Mattson, BS

Section 500: Mondays and Wednesdays, February 10-19, 6-9 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$350.

Relational Database Concepts and SQL Programming

CAAP 4502

This course is an introduction to relational databases and the Structured Query Language (SQL). These topics will be explored using a simulated college registration database. Considerable attention will be placed on the construction, testing, debugging, and simplification of SQL programs. Selected topics in the design and development of relational databases, as background for a better understanding of why SQL functions the way that it does, will be examined. This course emphasizes database use rather than database administration and utilizes Oracle SQL and SQL *Plus. **Prerequisite: CAAP 2421 Access 2000 Level I, CAAP 2431 Access 2002 Level I** or previous experience with databases.

Elizabeth Boese, BS

Section 501: Mondays and Thursdays, January 27-February 13, 6-9 p.m.

Andy Marangakis, MS

Section 502: Wednesdays, April 2-May 7, 6-9 p.m.

All Sections: 6 sessions. University Management Systems 101. \$425.

GRAPHICS

Computer Art CAGR 1021

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

Barry Ratliff, MFA

Section 500: Tuesday and Thursday, January 28 and 30, 6-9 p.m. 2 sessions. Humanities 1B35. \$196.



Jennifer Barozzi is a student in Mark Lafavor's operating systems class, working toward her certificate in network administration. Since she has a full time job, Jennifer finds that Continuing Ed's evening classes are a convenient way for her to gain computer skills she can use in both her current job and in a future career as well. "People come to me at work to ask questions about their computer!"

Introduction to Graphic Design CAGR 1121

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

Rick Hoyt, BS

Section 500: Saturday, January 25, 9 a.m.-5 p.m. 1 session. Humanities 1B35. \$224.

(Graphics continued)

Rob Gibson has taken a dozen computer classes through Continuing Ed. Like so many students, he knows that the more computer skills he has in the field he wants to go into, the more marketable he is. He keeps coming back to Continuing Ed because he can expect a high caliber of instruction. "Most of the instructors work in IT for a living. They don't just teach it."

Introduction to Photoshop 7 CAGR 2111

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

Jerry Reynolds, MSEE

Section 500: Saturdays, February 1 and 8, 9 a.m.-4 p.m. 2 sessions. University Management Systems 101. \$336.

Introduction to Photoshop 7 CAGR 2121

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

Tim Meehan

Section 500: Mondays and Thursdays, February 10-20, 6-9 p.m. 4 sessions. Humanities 1B35. \$336.

Photoshop 7 for the Web CAGR 3121

This course introduces the student to more advanced techniques that focus on editing and creating graphics for use on the Web. Topics include applying and creating layer styles and layer effects; creating vector-based shapes and graphics; creating text objects and text effects; applying masks; advanced image manipulation; channel operations; and using Photoshop actions. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms.

Prerequisite: CAGR 2111/2121 **Introduction to Photoshop** or equivalent. **Required text:** *Photoshop 7 ImageReady Hands-On Training*, Weinman and Kabili.

Tim Meehan

Section 500: Mondays and Thursdays, March 10-20, 6-9 p.m. 4 sessions. Humanities 1B35. \$336.

What's New in Photoshop 7 CAGR 4121

Move your Photoshop skills to the cutting edge by learning the key new features in Adobe Photoshop 7. In this hands-on training course, you'll practice using powerful new Photoshop tools, including the healing brush, the patch tool, the file browser, the upgraded painting engine, tool presets, custom workspaces, the spell-checker, and more. You'll also learn how to create web graphics in Photoshop 7 and its companion program ImageReady 7 with new features like the revamped rollover palette, the transparent color feature, transparency dither, selective optimization, and the new selected rollover state. If that sounds like Greek to you, you need to enroll in this course. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms. **Prerequisite:** CAGR 3111/3121 **Photoshop for the Web** or equivalent with instructor's permission.

Jan Kabili, MFA

Section 500: Tuesdays and Thursday, February 4-11, 6-9 p.m. 3 sessions. Humanities 1B35. \$260.

Illustrator 10 Level I CAGR 2211

Adobe Illustrator supports many file formats for exporting files for web publishing or to page layout programs for print production. Illustrator graphics are the primary components of animation on web pages. Learn to create and edit lines and shapes, combine them into full color illustrations and add stunning text effects. Learn to also integrate Adobe Photoshop images into your illustrations created in Illustrator. **Prerequisite:** CAGR 1011/1021 **Computer Art** or equivalent.

Jerry Reynolds, MSEE

Section 500: Saturdays, February 22 and March 1, 9 a.m.-4 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$350.

Illustrator 10 Level II**CAGR 3221**

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

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

Rick Hoyt, BS

Section 500: Saturdays, March 8 and 15, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$350.

Macromedia Director 8 Shockwave Studio**CAGR 3321**

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

William Busch

Section 500: Tuesdays, February 18-March 11, 6-9 p.m. 4 sessions. Humanities 1B35. \$336.

Macromedia Fireworks**CAGR 3511**

Fireworks combines graphic design with advanced web page production. It is a comprehensive tool that works with vector and bitmap graphics, exports optimized images and produces interactive web pages. Fireworks also integrates well with Dreamweaver and Flash. In this course, you will use Fireworks to create your own images, apply special effects, build JavaScript rollover buttons and export web pages into Dreamweaver. **Prerequisite:** CAGR 1011/1021 **Computer Art** or equivalent.

Brandon Berman, MA

Section 500: Tuesdays, March 4-April 1 (skip March 25), 6-9 p.m. 4 sessions. University Computing Center 127. \$336.

Web Graphics Project**CAGR 9001**

Required capstone course for the Certificate in Web Graphics. This course integrates skills learned in prerequisite courses and emphasizes layout, design, and discovery of one's own style. Students will create a digital portfolio demonstrating their work, software skills, and artistic approach to projects. Students will assess their potential audience, present goals, and develop a plan by creating flowcharts and storyboards. Final portfolios will be posted on the Web. Peer and self evaluations will be conducted during all phases of the project. Work will be done both in and outside of class.

Prerequisite: Students must have satisfactorily completed all the required courses for the **Web Graphics Design Certificate**.

Brandon Berman, MA

Section 500: Mondays, April 7-May 5, 6-9 p.m. 5 sessions. University Computing Center 127. \$375.

NETWORKING**Introduction to Networks****CANW 1001**

Networked computer systems are becoming more and more prevalent in today's business environment. Making informed choices depends on understanding the basic concepts, grasping the "lingo" and accurately evaluating various configurations. This course presents an overview of current network systems available on both DOS-based and Macintosh-based systems for small to medium-sized businesses.

Prerequisite: Proficiency with PCs and the **Windows operating system**.

Nate Ahrens, BA

Section 500: Mondays and Wednesdays, January 27-February 5, 6-9 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$300.

Computer Systems Overview and Architecture**CANW 3103**

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

Prerequisite: Knowledge of basic computing operations and terminology.

Dave Bodnar, MS

Section 500: Tuesdays and Thursdays, January 21-30, 6-9 p.m. 4 sessions. University Computing Center 123. \$300.

Operating Systems**CANW 4102**

This lab-based technical course deals with the four major networking operating systems. Hands-on labs will cover installation of Windows, Mac O/S (9.1 demo), Red Hat Linux and UNIX SVR4 (Solaris 8 demo), basic network setup and "How To" use common troubleshooting and performance utilities to maintain these systems.

Prerequisites: CANW 1001 **Introduction to Networks** and CANW 3103 **Computer Systems Overview and Architecture** or equivalent.

Marc Lafavor, BS

Section 500: Mondays and Wednesdays, February 3-19, 6-9 p.m. 6 sessions. University Computing Center 127. \$450.



(Networking continued)

Network Administration

CANW 5101

In this course, you will learn about network management skills, including setting up user groups and access privileges, maintaining security, backup strategies, as well as sharing printers and other network resources. You will also learn trouble-shooting techniques and how to solve and prevent network problems.

Prerequisite: CANW 4102 Operating Systems or equivalent.

Shayn Smith, PhD, CNE

Section 500: Mondays and Wednesdays, February 24-March 5, 6-9 p.m. 4 sessions. University Computing Center 127. \$300.

Local and Wide Area Networking Topics

CANW 5402

In this lecture-based course, both Local Area Network (LAN) and Wide Area Network (WAN) topics will be covered. The three dominant LAN protocols will be covered in depth as well as the function of bridges in a LAN. Learn the various packet-switched technologies and the various routing protocols that make the Internet work. Learn the newer broadband technologies as well as older circuit-switched technologies. Gain an understanding of the advantages and disadvantages of the technologies. Case studies of real-world WAN topologies and the equipment used to implement them will be examined. **Prerequisite:** CANW 4102 Operating Systems or equivalent.

Craig McBride, MBA

Section 500: Tuesdays and Thursdays, March 4-18, 6-9 p.m. 5 sessions. University Computing Center 123. \$350.

Introduction to Windows 2000 Administration

CANW 2211

This is a technical hands-on course focusing on concepts necessary for migrating from Windows NT 4.0 to Windows 2000. You will learn installation and configuration of Windows 2000 Professional and Server in a small office environment. Topics include planning, installation, networking, file sharing, printer sharing, file systems and disks. Also covered will be installation and configuration of several Windows 2000 services. **Prerequisite:** CANW 4102 Operating Systems or equivalent. **Required text:** *Windows 2000 The Complete Reference*, Osborne/McGraw-Hill, Ivens and Gardinier.

Bob Schmidt, MA

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

Intermediate Windows 2000 Administration

CANW 3211

Expand on the topics covered in the introduction course by learning what it takes to adapt them to a larger scale multi-server environment using Domains and Trusts. Also examine the Internet Information Server, Remote Access Service, Terminal Server and other network components. Students will learn the migration strategies from Windows NT 4.0 and the differences between Windows XP. The importance of security, basic firewall technologies and virus protection will also be covered. **Prerequisite:** CANW 2211 Introduction to Windows 2000 Administration or equivalent.

Bob Schmidt, MA

Section 500: Tuesdays, April 8-May 6, 6-9 p.m. 5 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$450.

UNIX Survival Skills

CANW 1301

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

James Lupa, PhD

Section 500: Wednesdays, January 22-February 19, 6-9 p.m. 5 sessions. University Management Systems 101. \$420.

Introduction to UNIX

CANW 2301

This is a hands-on class for anyone who needs to use UNIX or obtain sufficient knowledge to evaluate it. In this class, fundamentals are covered including the importance of different versions, files, directories, permissions, the VI editor, file security, I/O redirection, pipes, quoting, command substitution, background processing, and UNIX processes. Essential UNIX commands for printing, locating files or text within files, archiving and compressing files, and some network-related UNIX commands are also covered. **Prerequisite:** Fundamental knowledge of basic computer functions.

Craig McBride, MBA

Section 500: Tuesdays and Thursdays, January 21-February 11, 6-9 p.m. 7 sessions. University Computing Center 127. \$525.



Intermediate UNIX CANW 3301

This hands-on class is primarily a UNIX Shell programming class but also covers advanced Bourne, Korn, and C Shell topics not covered in the Introduction to UNIX class. Shell programming topics include creating and executing shell scripts, shell variables and operators, flow control structures such as conditional and looping statements, and testing file attributes. Other topics include customizing the user environment via start-up files, command-line editing, shell history and alias features, and job control. **Prerequisite:** CANW 2301 **Introduction to UNIX** or equivalent.

Craig McBride, MBA

Section 500: Tuesdays and Thursdays, February 13-27, 6-9 p.m. 5 sessions. University Computing Center 127. \$480.

Security Essentials and Network Design CANW 4401

This lab-based technical course provides the working knowledge of security concepts and their relationship to network design to successfully implement a network security strategy. Hands-on labs will cover installation and configuration of virus protection, NAT (network address translation), (software) firewalls, scanners and intrusion monitors. **Prerequisites:** CANW 3301 **Intermediate UNIX** and CANW 3211 **Intermediate Windows 2000 Administration** or equivalent.

Marc Lafavor, BS

Section 500: Mondays and Wednesdays, March 31-April 16, 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). \$450.

UNIX System Administration CANW 5301

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

James Lupo, PhD

Section 500: Mondays and Thursdays, April 21-May 5, 6-9 p.m. 5 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$480.

PROGRAMMING

Introduction to Programming I CAPR 1001

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

Charry Stover, MS

Section 500: Saturdays, January 25 and February 8, 9 a.m.-4 p.m.; Mondays, January 27 and February 10, 6-9 p.m.; Wednesdays, January 29 and February 12, 6-9 p.m. 6 sessions. Hellems 193. \$525.



People from all walks of life take Continuing Ed classes, for all sorts of reasons. Take Rosanne Humphrey. She's the Collection Manager of Zoology at the University of Colorado Museum. Evening classes are especially convenient for her, and she has found the instructors to be excellent. "I looked into other programs geared towards adults and found this to be the best for me. The fact that I don't have to drive to Denver is a big plus, too."

Introduction to Programming II CAPR 2101

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

Charry Stover, MS

Section 500: Saturdays, March 1 and 15, 9 a.m.-4 p.m.; Mondays, March 3 and 17, 6-9 p.m.; Wednesdays, March 5 and 19, 6-9 p.m. 6 sessions. University Management Systems 101. \$525.



*(Programming continued)***Introduction to Application Programming****CAPR 2201**

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

Steve Kaminski, MSEE

Section 500: Tuesdays, January 28-March 18, 6-9 p.m. 8 sessions. University Management Systems 101. \$525.

Intermediate Application Programming**CAPR 3201**

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

Steve Kaminski, MSEE

Section 500: Tuesdays, April 1-May 6, 6-9 p.m. 6 sessions. University Management Systems 101. \$475.

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 and random number generation, 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 3201 **Intermediate Application Programming** or equivalent. Students should also have access to a computer with a text editor, C/C++ compiler and linker or Java interpreter, plus a knowledge of at least high-school level algebra. **Recommended text:** *The C Programming Language*, 2nd Edition, Brian W. Kernighan and Dennis M. Ritchie.

David Corbin, MS

Section 500: Wednesdays, January 29-March 19, 6-9 p.m. 8 sessions. Humanities 186. \$525.

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). This lecture-based 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:** *C++ How to Program*, Deitel & Deitel.

Brian Kreider, BS

Section 500: Tuesdays, January 28-March 4, 6-9 p.m. 6 sessions. Ketchum 234. \$475.

Intermediate/Advanced C++ Programming**CAPR 4101**

This lecture-based course covers advanced topics in C++ programming: the nature, benefits, and perils of abstract base classes, static class members, type safety, object ownership, friend access, references, casts, namespaces, operator overloading, multiple inheritance, templates, exceptions, and the standard C++ library. **Prerequisite:** CAPR 2102 **Introduction to Object-Oriented Programming in C++** or equivalent. **Recommended text:** *C++ How to Program*, Deitel & Deitel.

Jim Elliott, MS

Section 500: Thursdays, March 13-May 8 (skip March 27), 6-9 p.m. 8 sessions. Humanities 1B90. \$525.

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

This lecture-based course introduces object-oriented programming to programmers familiar with procedural programming, but not object-oriented concepts. Focus is on the essential concepts underlying O-O programming (data abstraction, inheritance and polymorphism) and how these are supported in Java. **Prerequisites:** CANW 3103 **Computer Systems Overview and Architecture** and CAPR 3202 **Algorithm Design** or intermediate level experience with any procedural programming language. To determine if you have the sufficient background to meet the prerequisite requirement, see www.profcon.com/profcon/Prereq.htm. **Recommended text:** *Just Java*, Peter van der Linden.

Carol J. Meier, MS

Section 500: Mondays, January 27-March 10, 6-9 p.m. 7 sessions. Humanities 1B70. \$525.



Java for Object-Oriented Experienced Programmers

CAPR 3601

This lecture-based course is an in-depth look at the Java programming language for programmers with object-oriented programming experience, including inheritance and polymorphism. Students will acquire production Java programming skills. **Prerequisite:** CAPR 2601 **Introduction to Object-Oriented Programming Using Java.** Experience with object-oriented programming, including inheritance and polymorphism is required.

Recommended text: *The Java Programming Language*, Arnold & Gosling.

Paul Jensen, MS

Section 500: Mondays, March 17-May 5 (skip March 24), 6-9 p.m. 7 sessions. Humanities 1B70. \$525.

Advanced Java Programming Language Topics

CAPR 4604

This lecture-based course covers a variety of advanced Java topics including threading and synchronization, the I/O library, serialization, remote method invocation, Java's database connectivity, and some of the following as time permits: network library, inner classes, reflection, Java native interfaces, or Corba. **Prerequisite:** CAPR 3601 **Java for Object-Oriented Experienced Programmers** or equivalent.

David Rodenbaugh, BA

Section 500: Mondays, January 27-March 10, 6-9 p.m. 7 sessions. Humanities 160. \$525.

GUI Programming in Java

CAPR 5601

This lecture-based 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, MS

Section 500: Tuesdays, January 28-March 11, 6-9 p.m. 7 sessions. Fine Arts N185. \$525.

Developing Web Applications in Java

CAPR 5602

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

Geoff Thompson, MS, and Greg Holling, BS

Section 500: Wednesdays, January 29-March 12, 6-9 p.m. 7 sessions. Humanities 160. \$525.

Java Best Practices and Performance Tuning

CAPR 5606

Java applications are easy to write but are they right? A number of key mistakes are made every day by even the most experienced developers when it comes to performance and recommended practices for writing Java applications. This lecture-based course will demonstrate proven techniques for writing better and faster Java code. **Prerequisite:** CAPR 3601 **Java for Object-Oriented Experienced Programmers** or equivalent.

Greg Holling, BS, and David Rodenbaugh, BA

Section 500: Thursdays, April 3-24, 6-9 p.m. 4 sessions. Economics 205. \$360.

Object-Oriented Design Patterns

CAPR 5401

Design patterns capture recurring micro-architectural solutions to common O-O software problems. Learning these patterns helps programmers evaluate, communicate, review and implement software designs more effectively. This one-day lecture class will explain the design pattern concepts, terminology and benefits and will present a number of fundamental patterns.

Prerequisite: CAPR 2102 **Introduction to Object-Oriented Programming in C++** or CAPR 2601 **Introduction to Object-Oriented Programming Using Java** or familiarity programming with objects. **Recommended text:** *Object-Oriented Design Patterns*, Gamma, et al.

George Watson

Section 500: Saturday, April 19, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$210.

Object-Oriented Analysis and Design

CAPR 5402

This workshop combines lecture and student participation to give students tools and practical experience in object-oriented analysis and design. The exercises take a manageable, but non-trivial task from analysis through design. This course will be useful for anyone wondering how to find the objects. Upon completion, you will have an excellent foundation to get the most out of Java, C++, C# and other object-oriented languages. **Prerequisite:** CAPR 2102 **Introduction to Object-Oriented Programming in C++** or CAPR 2601 **Introduction to Object-Oriented Programming Using Java** or equivalent. Students should be comfortable programming with objects.

Greg Holling, BS

Section 500: Saturdays, April 5 and 12, 9 a.m.-5 p.m. 2 sessions. University Computing Center 123. \$495.



(Programming continued)

With nine classes under her belt, Debbie Confer is a veteran of Continuing Ed's computer classes. Working towards her Network Administration certificate, she likes that the courses are "short, but intensive and hands-on." In addition, she's found that "they're right at my level, the times work with my schedule, and the instructors are excellent teachers." After nine classes, she should know!

Introduction to Hands-On Visual Basic Programming CAPR 2301

Visual Basic is a programming language that allows both beginning and experienced programmers to create custom Windows software without having to write out lines of code. The code is automatically generated as the standard Windows elements are inserted into the program by pointing and clicking with the mouse. The "Visual" (graphical) nature of this software makes it possible to create custom Windows programs relatively quickly and easily. **Prerequisite:** CAAP 2131 Windows 2000 or CAAP 2141 Windows XP or equivalent.

David Nelson, BS

Section 500: Mondays and Wednesdays, March 10-31 (skip week of March 24), 6-9 p.m. 5 sessions. University Computing Center 127. \$450.



Intermediate Hands-On Visual Basic Programming CAPR 3301

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

Steve Kaminski, MSEE

Section 500: Saturdays, April 5-19, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127. \$500.

Visual Basic .NET Programming Concepts CAPR 4301

This course introduces the concepts of the Visual Basic .NET programming language and its role within the .NET framework to students who are familiar with Visual Basic Version 6.0. Topics will include: the basics of the VB .NET language; the general strategy of .NET applications; object-oriented programming in VB .NET; using ADO .NET to access data; and an overview of using VB .NET to implement web applications and web services. There will also be a session on strategies for transitioning existing Visual Basic 6.0 applications to VB .NET. **Prerequisite:** CAPR 3301 Intermediate Hands-On Visual Basic Programming or equivalent.

Steve Kaminski, MSEE

Section 500: Saturdays, April 26-May 10, 9 a.m.-4 p.m. 3 sessions. University Computing Center 127. \$500.

Introduction to Software Project Management CAPR 5501

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

Richard Wolniewicz, PhD

Section 500: Thursdays, February 6-27, 6-9 p.m. 4 sessions. Ketchum 234. \$395.

Introduction to PERL for Programmers CAPR 2701

Practical Extraction and Report Language (PERL) is a powerful, flexible and easy to use scripting language that is suitable for many tasks, including system administration and distributed programming. In web development, it is used for developing CGI scripts. Topics to be covered include statements, variables, operators; arrays and LISTS; hashes; control structures and test; I/O and file handlers; CGI scripts; and much more. **Prerequisite:** CAPR 1001 Introduction to Programming I or one year of previous programming experience (familiarity with programming concepts such as variables, statements, parameters passing and the idea of modularized code). **Recommended text:** *PERL for Programmers*, 3rd Edition, Wall, Christiansen and Orwant (O'Reilly).

Peter Janett

Section 500: Mondays, April 7-May 5, 6-9 p.m. 5 sessions. University Management Systems 101. \$450.

Extensible Markup 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. In this lecture-based course, attendees will learn how to create XML documents, use an XML validator, stylesheet processing with CSS and XSL, and use 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.

George Watson

Section 500: Wednesdays, April 2-23, 6-9 p.m. 4 sessions. Humanities 186. \$415.

Technical Tour of .NET and C#

CAPR 3703

.NET is a new platform from Microsoft, based on a virtual machine (like Java). The C# programming language, a cross between Java and C++, is the closest fit to this machine. This lecture-based course will discuss the .NET virtual machine, its implementations, C#, other compilers, standards, application deployment, and contrasting these with Java. **Prerequisite:** Knowledge of software technologies.

Greg Holling, BS

Section 500: Saturday, March 15, 9 a.m.-4 p.m. 1 session. Humanities 160. \$180.

Web Services and Simple Object Access Protocol (SOAP)

CAPR 3704

Web services and SOAP promise a hardware-neutral and vendor-neutral platform for web-based commerce. These technologies are used heavily by .NET and J2EE. This one-day course will provide a technical overview of web services and SOAP, and their relationship with J2EE, .NET, and XML.

Prerequisite: CAPR 3701 Extensible Markup Language (XML) or equivalent.

Greg Holling, BS

Section 500: Saturday, May 3, 9 a.m.-5 p.m. 1 session. University Computing Center 123. \$240.

W E B

Internet Fundamentals CAWB 1001

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

Lorraine Revella, BA

Section 500: Tuesday and Thursday, January 21 and 23, 6-9 p.m. 2 sessions. Humanities 1B45. \$209.

Internet Applications CAWB 2101

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

Ginny Figlar, MA

Section 500: Tuesdays and Thursday, January 28-February 4, 6-9 p.m. 3 sessions. Humanities 1B45. \$252.

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.

Bruce Muller, MA

Section 501: Thursdays, February 6-20, 6-9 p.m. Humanities 1B45. 3 sessions. \$215.

Web Server Administration CAWB 3102

If you'd like to become a web server administrator on Windows and/or UNIX systems, this class is for you. Topics will cover a broad range of web server software administration issues such as security, virtual hosting, logging, SSL encryption, and middle ware installation of programs such as PERL, PHP, ColdFusion, ASP, CGI, etc. The class will center around common web server setup and maintenance issues and how to perform them using both Windows-based IIS and UNIX-based Apache web servers. We'll also touch on other web-related topics such as FTP, Email and DNS (Domain Name System) setups. **Prerequisites: CAWB 2101 Internet Applications** and basic knowledge of the Windows and/or UNIX operating system. Knowledge of HTML highly recommended but not required.

Peter Janett

Section 500: Wednesdays, February 26-March 19, 6-9 p.m. 4 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$336.

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

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

Dave Taylor, MS

Section 501: Wednesdays, January 22-February 12, 6-9 p.m.

Ginny Figlar, MA

Section 502: Mondays and Thursdays, February 24-March 6, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B45. \$336.



(Web continued)

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

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

Beth Sigren, BS

Section 501: Wednesdays, February 19-March 5, 6-9 p.m. Humanities 1B45.

Karis Vail Schmidt, BA

Section 502: Tuesdays, March 11-April 1 (skip March 25), 9 a.m.-12 p.m. University Management Systems 101.

All Sections: 3 sessions. \$252.

Advanced Hypertext Mark-up Language (HTML) CAWB 4301

Putting the pieces together! In this course, students will build on skills learned in the Introduction and Intermediate HTML courses. Learn to code forms to make your web site interactive. Learn how, with Cascading Style Sheets, to have a more sophisticated and uniform layout. We will also review the "big picture" of web site implementation and search engines. **Prerequisite:** CAWB 3301 **Intermediate HTML** or equivalent. You must be proficient with PCs and the Windows Operating System and able to implement all skills covered in the Introduction and Intermediate HTML courses to successfully complete this course. An HTML reference book is recommended.

Susan Walanski, BA

Section 501: Mondays and Thursdays, March 10-20, 6-9 p.m.

Beth Sigren, BS

Section 502: Wednesdays, April 16-May 7, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B45. \$336.

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

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

Beth Sigren, BS

Section 500: Thursdays, March 13 and 20, 6-9 p.m. 2 sessions. University Computing Center 127. \$209.

Introduction to JavaScript CAWB 2701

Learn the fundamentals of programming using JavaScript. Topics include fundamental programming concepts such as variables, functions, and objects covered in a hands-on step-by-step fashion using JavaScript. Class will focus on the language in terms of extending the functionality of a web page. Class will prepare you for the CAWB 3702 Intermediate JavaScript course and assumes no previous high-level programming experience.

Prerequisite: CAWB 4301 **Advanced HTML** or equivalent.

Susan Walanski, BA

Section 501: Mondays, January 27-February 17, 6-9 p.m.

Section 502: Mondays, March 31-April 21, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B45. \$336.

Intermediate JavaScript CAWB 3702

This course builds on the programming rules and principles learned in the introductory course. Concepts learned in the previous course will be used to teach other basic programming concepts, primarily controlling your program's flow using conditional statements and loops. We will revisit several topics including functions and objects, delving deeper into the power of these paramount programming constructs to increase your understanding. Concepts will be covered in a hands-on step-by-step manner and will prepare you for Advanced JavaScript. Assumes no previous high-level programming experience other than the Introduction to JavaScript course. **Prerequisite:** CAWB 2701 **Introduction to JavaScript** or equivalent. **Recommended texts:** *JavaScript, The Definitive Guide*, David Flanagan, or *JavaScript Bible*, Goodman and Eich.

Susan Walanski, BA

Section 500: Wednesdays, March 12-April 9 (skip March 26), 6-9 p.m. 4 sessions. Humanities 1B45. \$336.

Advanced JavaScript CAWB 4701

Now that you've covered all the basics and even some more advanced programming, use your skills to apply this knowledge to create original JavaScript programs for your web project. This course covers how to write a JavaScript program from beginning to end, tips and tricks of the programming trade, and when and where to use JavaScript versus another language. **Prerequisite:** CAPR 3702 **Intermediate JavaScript** or equivalent.

Jeff Braunstein, MS

Section 500: Tuesdays, April 15-May 6, 6-9 p.m. 4 sessions. Humanities 1B45. \$336.

Introduction to Motion Graphics Using Flash MX CAWB 2511

Macromedia Flash is the means to designing and delivering low-bandwidth animation and interactivity over the Web. This course introduces the student to the basic skills needed to draw illustrations, create basic animations, and create buttons. Topics include exploring the Flash interface and concepts, working with color and gradients, frame-by-frame animations, shape and motion tweening, and working with symbols and bitmaps. Work will be done both in and outside of class. **Prerequisite:** CAGR 2211/CAGR 2221 **Illustrator Level I** or equivalent. **Required text:** *Flash MX Hands-On Training*, Weil and Green.

Brandon Berman, MA

Section 500: Tuesdays and Thursdays, January 28-February 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). \$336.

Intermediate Motion Graphics Using Flash MX CAWB 3512

Expand your knowledge of Macromedia Flash and take your movies to the next level. Topics include working with movies and multiple timelines; basic ActionScripting; working with text, sound, and video; publishing, and integrating with other programs. Work will be done both in and outside of class. **Prerequisite:** CAWB 2511 **Introduction to Motion Graphics Using Flash** or equivalent. **Required text:** *Flash MX Hands-On Training*, Weil and Green.

Brandon Berman, MA

Section 500: Tuesdays and Thursdays, February 11-25, 6-9 p.m. 5 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$390.

Dreamweaver MX

CAWB 2611

If you haven't seen Dreamweaver in action, this course is a must. This professional level HTML editor is a sophisticated tool for creating web sites. Its powerful site management tools will be covered as well as discussion of layout techniques using tables and layers. Creating rollovers and much more will also be covered.

Prerequisite: CAWB 2301 **Introduction to HTML** or equivalent. **Required text:** *Dreamweaver MX for Windows and Macintosh: Visual QuickStart Guide*, J. Tarin Towers.

Tim Meehan

Section 501: Saturdays, January 25-February 15, 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).

Jeff Braunstein, MS

Section 502: Thursdays, April 3-24, 6-9 p.m. University Computing Center 127.

All Sections: 4 sessions. \$336.

ColdFusion MX

CAWB 2811

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

Jeff Braunstein, MS

Section 500: Mondays and Thursdays, March 3-20, 6-9 p.m. 6 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$475.



When the economy is booming, it's smart to have skills potential employers value. When the job market is slow, it's crucial. "It's good to have an information technology background in the job hunt," says Evan Vernon. Evan, a marketing and management major at CU, is taking Continuing Ed's computer classes to bolster his resume for when he graduates.

Web Site Design Project

CAWB 9001

Required capstone course for the Certificate in Web Site Design. Students will learn the design process, which begins with interviewing prospective clients and ends with site maintenance. Students will create and update an assigned web site to demonstrate their complete understanding of site design as well as work through the planning stages of a large site. Homework is regularly assigned and completed outside of class. Both attendance and completion of homework as assigned are mandatory for successful completion of this course. **Prerequisite:** Students must have satisfactorily completed all the required courses for the Web Site Design Certificate. CAWB 5311 **Hypertext Mark-up Language Version 4** is highly recommended.

Beth Sigren, BS

Section 500: Thursdays, April 10-May 8, 6-9 p.m. 5 sessions. University Management Systems 101. \$375.

Certificate Programs

We offer certificate programs in Web Graphics, 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.** For a substitution request, complete a form online at www.colorado.edu/conted/cpsub.htm. You may also e-mail us at cecas@colorado.edu.

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

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

CERTIFICATE IN WEB GRAPHICS

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

For this certificate, you must complete the seven core courses, two electives and the capstone course. To ensure you get the most out of each course and can actively participate in class, please make sure you have met the prerequisite requirement(s). See the *Prerequisite* section under *General Course Information*.

A. Core Courses (all courses required)

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

B. Electives (choose two)

- CAGR 3321 Macromedia Director Shockwave Studio
- CAGR 3211 Illustrator Level II
- CAGR 3421 Multimedia Solutions
- CAGR 3511 Macromedia Fireworks
- CAGR 4121 What's New in Photoshop 7
- CAWB 3512 Intermediate Motion Graphics Using Flash

C. Capstone Course

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

- CAGR 9001 Web Graphics Project



The requirements for this certificate have been restructured to provide a well-rounded experience for students in this ever-changing field. Students who began this certificate program prior to Fall 2002 may complete the certificate under the old or new requirements.

To complete this certificate, you must take all the required courses in Option 1 or 2, one programming course and one database course. Please note that Option 1 is designed for students with little or no background in the networking field and Option 2 is for those with some experience/background. To start the certificate at the Option 2 level, you must have already taken the Introduction to Networks, Computer Systems Overview and Architecture, and Operating Systems courses, or have had equivalent background/training. **To determine your level, take our online test at compapps.colorado.edu/tests.htm. If you can pass the test, you may begin with Option 2.**

A. Core Courses

Choose One of the Following Two Options

Option 1 - Beginners Level (for those with little or no networking background)

1. Core Courses (all courses are required)
 - CANW 1001 Introduction to Networks
 - CANW 3103 Computer Systems Overview and Architecture
 - CANW 4102 Operating Systems
 - CANW 5402 Local and Wide Area Networking Topics
 - CANW 2211 Introduction to Windows 2000 Administration
 - CANW 2301 Introduction to UNIX
 - CANW 5101 Network Administration

2. Elective (choose one)

- CANW 3211 Intermediate Windows 2000 Administration
- CANW 3301 Intermediate UNIX

Option 2 - Intermediate Level (for those with some networking background)

- Core Courses (all courses are required)
- CANW 5402 Local and Wide Area Networking Topics
 - CANW 2211 Introduction to Windows 2000 Administration
 - CANW 3211 Intermediate Windows 2000 Administration
 - CANW 2301 Introduction to UNIX
 - CANW 3301 Intermediate UNIX
 - CANW 4401 Security Essentials and Network Design and Analysis
 - CANW 5101 Network Administration
 - CANW 5301 UNIX System Administration

B. Programming Course (choose one)

(See pages 43-47 for course listings)

C. Database Course (choose one)

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

CERTIFICATE IN WEB SITE DESIGN

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. To ensure you get the most out of each course and can actively participate in class, please make sure you have met the prerequisite requirement(s). See the *Prerequisite* section under *General Course Information*.

A. Core Courses

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

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

B. Other Required Core Course

CAWB 3101 Design Techniques for Web Sites

C. Multimedia Elective (choose one)

- CAGR 3321 Macromedia Director Shockwave Studio
- CAGR 3421 Multimedia Solutions
- CAWB 2611 Dreamweaver*
- CAWB 2511 Introduction to Motion Graphics Using Flash*
- CAWB 3512 Intermediate Motion Graphics Using Flash*

* *Note: CAWB 2611, CAWB 2511 and CAWB 3512 cannot be used to fulfill the Multimedia Elective if you are already taking one of these courses to fulfill the Web Course Elective.*

D. Graphics Elective (choose one)

- CAGR 2111/2121 Introduction to Photoshop
- CAGR 3111/3121 Photoshop for the Web
- CAGR 4121 What's New in Photoshop 7
- CAGR 2211/2221 Illustrator Level I
- CAGR 3211/3221 Illustrator Level II

E. Web Course Elective (choose one)

- CAWB 5311 Hypertext Mark-up Language Version 4
- CAWB 3102 Web Server Administration
- CAWB 3702 Intermediate JavaScript
- CAWB 2811 ColdFusion
- CAWB 2611 Dreamweaver*
- CAWB 2511 Introduction to Motion Graphics Using Flash*
- CAWB 3512 Intermediate Motion Graphics Using Flash*

* *Note: CAWB 2611, CAWB 2511 and CAWB 3512 cannot be used to fulfill the Web Course Elective if you are already taking one of these courses to fulfill the Multimedia Elective.*

F. Capstone Course

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

CAWB 9001 Web Site Design Project

CERTIFICATE IN PROGRAMMING

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

To ensure you get the most out of each course and can actively participate in class, please make sure you have met the prerequisite requirement(s). See the *Prerequisite* section under *General Course Information*.

A. Introductory Courses

Choose One of the Following Two Options

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

- CAPR 1001 Introduction to Programming I
- CAPR 2101 Introduction to Programming II
- CAPR 3201 Intermediate Application Programming
- CAPR 3202 Algorithm Design

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

- CAPR 2201 Introduction to Application Programming
- CAPR 3201 Intermediate Application Programming
- CAPR 3202 Algorithm Design

B. Choose One of Two Tracks

1. C++ Track (all courses required)
 - CAPR 2102 Introduction to Object-Oriented Programming in C++
 - CAPR 4101 Intermediate/Advanced C++ Programming
 - CAPR 5401 Object-Oriented Design Patterns
 - CAPR 5402 Object-Oriented Analysis and Design
2. Java Track (all courses required)
 - CAPR 2601 Introduction to Object-Oriented Programming Using Java
 - CAPR 3601 Java for Object-Oriented Experienced Programmers
 - CAPR 4604 Advanced Java Programming Language Topics
 - One Java Topics Course
 - One Design Topics Course

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

Topics Courses

Java Topics

- CAPR 4603 Enterprise Java Beans (EJB) Overview
- CAPR 5601 GUI Programming in Java
- CAPR 5602 Developing Web Applications in Java
- CAPR 5603 Java Servlets
- CAPR 5604 Network-Embedded Java Programming
- CAPR 5605 Java Internationalization

Design Topics

- CAPR 5401 Object-Oriented Design Patterns
- CAPR 5402 Object-Oriented Analysis and Design

Visual Basic Topics

- CAPR 2301 Introduction to Hands-on Visual Basic Programming
- CAPR 3301 Intermediate Hands-on Visual Basic Programming

PERL Topics

- CAPR 2701 Introduction to PERL for Programmers
- CAPR 3702 PERL for Web Application Programming

Database Design Topics

- CAAP 4501 Database Design Concepts
- CAAP 4502 Relational Database Concepts and SQL Programming

Other Topics

- CAPR 3701 Extensible Markup Language (XML)
- CAPR 5501 Introduction to Software Project Management
- CAPR 3703 Technical Tour of .NET and C#
- CAPR 3704 Web Services and Simple Object Access Protocol (SOAP)

The Computer Applications Program offers workshops based on interests and requests from students. Workshops are very informal and give the student more time to interact with the instructor and other students in class. These workshops are designed to enhance the user's skills in a specific area of interest in which they have already had prior training, experience or background. **The material is presented in a fast-moving, hands-on, step-by-step workshop environment and not designed for novice users - some level of knowledge is required to ensure each individual gets the most out of the workshop.**

All workshops are noncredit and do not apply toward any of our certificate programs. We offer workshops for the lowest rate possible; therefore, discounts that would normally apply to our Program for faculty, staff or students do not apply.

Building Your Own Access Database CAAP 0000

If you are in the process of creating your own database using Microsoft Access and don't know where to begin or how to end, this workshop is designed for you. It will provide an opportunity to get help on issues regarding your specific database. Be prepared to spend time working on your project in this informal workshop setting. Bring a concept, a design, or files you have already been working on and the instructor will work with you to make your program work efficiently and error-free. Familiarity with table design, data types, creating basic queries, and knowledge of basic form and report design are requirements for this workshop.

Enrollment is limited to only six students so the instructor can give attention to each individual and his/her specific needs.

Issy Kilbride

Section 511: Tuesday and Thursday, February 25 and 27, 9 a.m.-2:30 p.m.
University Management Systems 101.

Section 512: Tuesday and Thursday, March 11 and 13, 9 a.m.-2:30 p.m.
Continuing Education, Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Section 513: Tuesday and Thursday, April 8 and 10, 9 a.m.-2:30 p.m.
Continuing Education, Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: 2 sessions. \$350.

Creating Cool Web Buttons with Photoshop CAGR 0000

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

Tim Meehan

Section 511: Monday, February 24, 11 a.m.-1 p.m. 1 session.
University Computing Center 127. \$75.

Creating Web Backgrounds with Photoshop CAGR 0000

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

Tim Meehan

Section 512: Tuesday, February 25, 11 a.m.-1 p.m. 1 session.
University Computing Center 127. \$75.

Creating Panoramic Images with Photoshop CAGR 0000

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

Tim Meehan

Section 513: Wednesday, February 26, 11 a.m.-1 p.m. 1 session.
University Computing Center 127. \$75.

Creating Animations with Photoshop CAGR 0000

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

Tim Meehan

Section 514: Thursday, February 27, 11 a.m.-1 p.m. 1 session.
University Computing Center 127. \$75.

Automating Processes with Photoshop CAGR 0000

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

Tim Meehan

Section 515: Friday, February 28, 11 a.m.-1 p.m. 1 session.
University Computing Center 127. \$75.

The International English Center (IEC) offers an intensive, full-time program for international students; evening classes in English as a second language for community residents or interested visitors from other countries; and effective writing courses for ESL graduate students. The IEC is located at 1030 13th Street.

EVENING COURSES

Courses are seven weeks in length (28 hours) and are offered five times a year. Students should have at least a high school education. Tuition for each course is \$400, text included.

Beginning Level

NCFL 900

For students who speak in simple sentences, have a limited vocabulary, understand some (not necessarily all) of what is said, and are familiar with the present tense (but may have some difficulty with other tenses).

Spring I Session: Mondays and Wednesdays, January 15–March 5, 6:30–8:30 p.m.

Spring II Session: Mondays and Wednesdays, March 12–May 7, 6:30–8:30 p.m.

Intermediate Level

NCFL 910

For students who have more than a basic vocabulary, understand much of what is said, can use basic verb tenses effectively, can read a variety of materials but experience some difficulty and need guidance in writing.

Spring I Session: Mondays and Wednesdays, January 15–March 5, 6:30–8:30 p.m.

Spring II Session: Mondays and Wednesdays, March 12–May 7, 6:30–8:30 p.m.

Advanced Level

NCFL 920

For students who have an extended vocabulary, understand most verb tenses effectively, read a variety of materials with little difficulty, write effectively with little guidance, and have a desire to polish their skills.

Spring I Session: Mondays and Wednesdays, January 15–March 5, 6:30–8:30 p.m.

Spring II Session: Mondays and Wednesdays, March 12–May 7, 6:30–8:30 p.m.

Effective Pronunciation

NCFL 950

For intermediate to advanced level students who want to understand and control the sounds of American English, want to be more easily understood and want to practice and improve difficult sounds.

Spring I Session: Tuesdays and Thursdays, January 16–March 6, 6:30–8:30 p.m.

Spring II Session: Tuesdays and Thursdays, March 13–May 8, 6:30–8:30 p.m.

Practical Writing Skills

NCFL 960

For high-intermediate to advanced level students who wish to work on general writing skills and grammar; need help with academic writing, reports, essays, letters and other essential writing needs; and would like a better understanding of formal and informal writing.

Spring I Session: Tuesdays and Thursdays, January 16–March 6, 6:30–8:30 p.m.

Spring II Session: Tuesdays and Thursdays, March 13–May 8, 6:30–8:30 p.m.

Classes will not be held Monday, January 20 or March 24–28.

EFFECTIVE WRITING FOR ESL GRADUATE STUDENTS

These online, noncredit modules provide instruction in writing skills and techniques required of students in master's and doctoral degree programs. Instruction is suitable both for graduate students who use English as a second language (ESL) as well as for any graduate student who needs to improve his or her writing for coursework and thesis writing at the graduate level. Tuition is \$60 for each module.

Module 1 - Graduate Writing: Description, Summary and Abstract

NCIE 713

This module provides information about writing basic description: how to approach an article or other written document, an experiment, or personal research; how to organize the description; considerations of purpose and audience including vocabulary, person, voice, and tone.

Module 2 - Graduate Writing: Persuasion, Analysis and Argument

NCIE 714

This module discusses the organization and rhetorical aspects of analysis and argument, and provides examples and web links to resources for writing persuasive documents. Module instruction covers the distinction between pure analysis (why something is as it is), pure argument (debate: pro/con), and proposal writing.

Module 3 - Graduate Writing: Prospectus and Proposal

NCIE 715

This module instructs students in writing a basic prospectus (for thesis and dissertation), including purpose, background/literature search, and intended result. The prospectus, in other words, must persuade the student's academic committee that the project is worthwhile. The process for writing a non-academic proposal is similar; the need for the proposal or solution to a problem must be shown.

Module 4 - Graduate Writing: Research and Citations

NCIE 716

This module covers the following aspects of research: how to conduct a literature search of appropriate literature (including the "sorting" and analysis of dissertation abstracts, books, articles/journals, live/personal information); how to approach the literature (what's important and what's not, why); and how to do citations for in-text and end-text references to the literature. The module links the instruction to texts, style guides, and online assistance, and notes the topic/field-specific reference citations required by the department and graduate school. Instruction also covers how to justify, annotate, and organize a bibliography (references not immediately used in the student's document).

For more information, please visit our web site at www.colorado.edu/iec or call 303-492-5547.



Center for Business Education

The Center for Business Education (CBE) is a partnership between the University of Colorado at Boulder's Division of Continuing Education and the Leeds School of Business. We are proud to offer:

EXECUTIVE EDUCATION

50 for Colorado, a leadership development program, offers 50 individuals each year the opportunity to come together to learn, experience, network, and transfer knowledge about critical elements of the Colorado economy. The 50 for Colorado program attracts current and emerging Colorado leaders who wish to study, discuss, and evaluate issues involving the business, government, and economic environment of Colorado. 50 for Colorado offers participants, in both business and social settings, direct contact with a wide spectrum of businesses, institutions, and people who are shaping Colorado. Classes are held one to two days a month over a ten-month time frame. An individual must be nominated in order to participate. *The 50 for Colorado class is scheduled to begin in January 2003.*

Colorado Executive Development in Residence, CEDIR, offers experienced business professionals a critical overview of fundamental business concepts in an interactive environment specifically designed for practicing managers. Participants will gain a solid foundation in fundamental business skills, enhance their functional knowledge of business, receive exposure to the latest management ideas and learn to be more productive employees. A participant can choose to complete one to four of the twelve courses conducted each summer. Upon successful completion of the twelve courses, participants will earn a Certificate in Executive Management. Executives from numerous market-leading companies including IBM, Level 3 Communications and Sun Microsystems have participated in the program. *CEDIR will be offered July 21-August 1, 2003.*

Custom Business Programs can be developed to meet the specific needs of any business and its employees. Access the extensive resources of the Leeds School of Business. Clients can choose location, format, length and more.

UNDERGRADUATE PROGRAM

CU Business Intensive Certificate, CUBIC, is an excellent opportunity, for non-business juniors and seniors from any accredited higher education institution, to obtain a solid understanding of fundamental business practices, acquire skills that will guide them in choosing a career, and provide business knowledge that will enhance their undergraduate studies. The six subjects covered by classes offered in this program include: accounting, finance, marketing, economics, management, and two electives - personal finance or computer applications. Upon successful completion of this three-week, noncredit program, students will earn a Certificate in Applied Business. *CUBIC will be offered May 12-30, 2003.*

REAL ESTATE APPRAISAL PROGRAM

The Real Estate Appraisal Program offers appraisal courses to students who would like to enter the appraisal profession, increase licensure levels and continuing education renewal for those already in the field.

If you are looking for a career change, sign up for the Registered Appraiser courses. A Registered Appraiser is an apprentice-level appraiser who may do mortgage work under the direct supervision of a licensed or certified appraiser. After completing 75 hours of appraisal education and training courses, including 15 hours of ethics and standards of practice, you must pass the State Level A licensing exam to qualify. The courses that we offer to fulfill the classroom requirements are NCRE 200 (48 hours), NCRE 202 (16 hours), and NCRE 204 (32 hours).

Registered Appraiser: Basic Appraisal Principles and Procedures NCRE 200

Section 417 - Lakewood
February 6, 7, 8, 13, 14, 15; Thursday, Friday, Saturday from 8 a.m.-5 p.m.
\$540; \$525 through January 24
Instructor: Larry Klassen

Standards and Ethics NCRE 202

Section 417 - Lakewood
February 28 and March 1; Friday and Saturday from 8 a.m.-5 p.m.
\$215; \$195 through February 14
Instructor: Lou Garone

Basic Appraisal Applications: Residential Case Study NCRE 204

Section 417 - Lakewood
March 14, 15, 21, 22; Friday, Saturday from 8 a.m.-5 p.m.
\$375; \$355 through February 28
Instructors: Lou Garone, Mike Kelley, Larry Klassen

We also offer courses that fulfill state mandated education requirements for the higher levels of appraisal licensure. A licensed appraiser primarily appraises one to four-unit residential properties, and may be accepted for all assignments (including land and commercial) where the loan amount is \$250,000 or less. A Certified Residential Appraiser may be accepted to appraise one to four-unit residential properties, regardless of loan amount or complexity; any nonresidential property up to a \$250,000 loan amount; and certain other assignments in supervised situations. A Certified General Appraiser may be accepted to appraise any property type or any loan amount.

On February 27, 2003, the CU Real Estate Council will offer its annual conference. The conference will feature discussions on the national economic outlook, a keynote luncheon speaker, and afternoon breakout sessions. To receive information when it becomes available, add you name to the mailing list by calling continuing education.

Effective July 1, 2002, the University of Colorado at Boulder no longer offers real estate broker education courses. To find another provider, check the Colorado Real Estate Commission web site at dora.state.co.us/real-estate/.



For more information on the CBE and its programs please visit the web site at leeds.colorado.edu/cbe or contact us at 303-492-5148.

EMBEDDED SYSTEMS CERTIFICATE

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

The certificate consists of 3 graduate-level courses in the areas of:

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

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

THE 2003 ALLARD CAPITAL CONFERENCE – MAY 14-17

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

SOFTWARE ENGINEERING CERTIFICATE

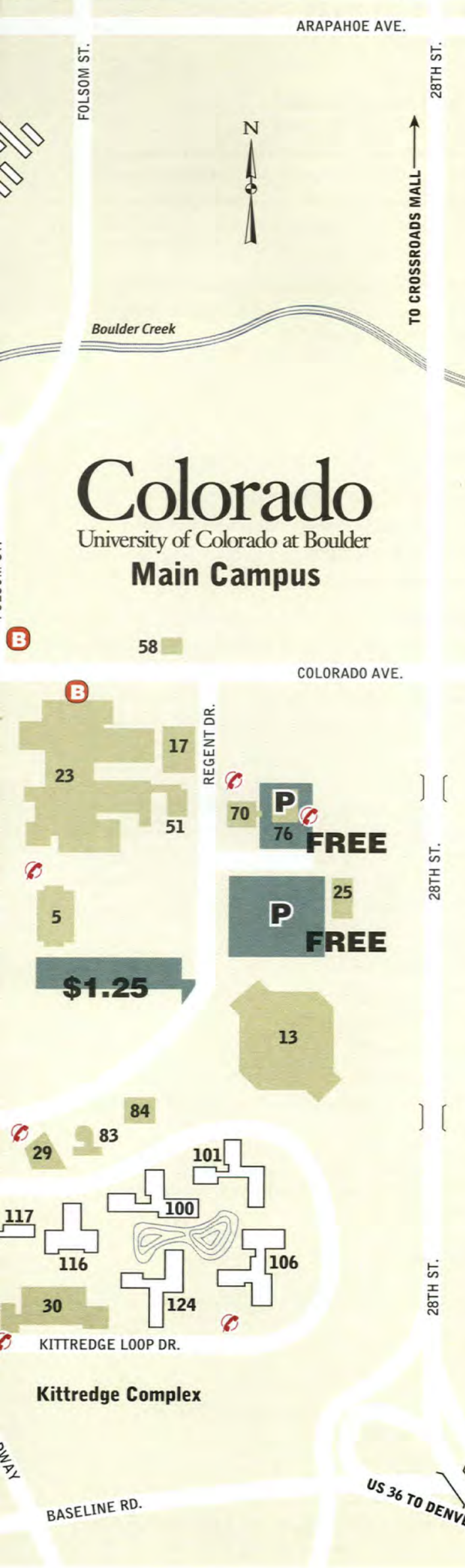
The Software Engineering Certificate is another certificate program from the CU-Boulder Department of Electrical and Computer Engineering. The relentless pace of change has characterized the field of software development, programming and engineering since its beginning. This program is designed to benefit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

The certificate consists of 3 graduate-level courses in the areas of:

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

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

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



University Buildings

1. Administrative and Research Center—East Campus (J-2) (ARCE)
2. Armory (D-4) (ARMR)
3. Balch Fieldhouse (E-7) (FH)
4. Benson Earth Sciences Building (F-9) (BESC)
- * Bruce Curtis Collections. See *Museum Collections*.
5. Business (H-10) (BUS)
6. Carlson Gymnasium (E-7) (CARL)
7. Center for Astrophysics and Space Astronomy (L-3) (CASA)
8. Clare Small Arts and Sciences (D-6) (CLRE)
- * Charlotte York Irey Studios (F-4). See *University Theatre*.
9. College Inn Conference Center (B-5) (CICC)
10. Computing Center (J-3) (COMP)
11. Continuing Education (D-4) (CEDU)
12. Cooperative Institute for Research in Environmental Sciences (F-5) (CIRES)
13. Coors Events/Conference Center (I-12) (EVNT)
14. Cristol Chemistry and Biochemistry (G-5) (CHEM)
15. Dal Ward Athletic Center (D-8) (DALW)
16. Denison Arts and Sciences (G-4) (DEN)
17. Discovery Learning Center (F-11) (DLC) (under construction, 2002)
- * Duane Physical Laboratories (F-7). See *Duane Physics and Astrophysics, Gamow Tower, Laboratory for Atmospheric and Space Physics, and Joint Institute for Laboratory Astrophysics*.
18. Duane Physics and Astrophysics (F-7) (DUAN)
19. Eaton Humanities Building (E-5) (HUMN)
20. Economics (F-3) (ECON)
21. Education (G-4) (EDUC)
22. Ekeley Sciences (F-5) (EKLC)
23. Engineering Center (F/G-10/11) (EC)
24. Environmental Design (G-7) (ENVD)
25. Environmental Health and Safety Center (I-2)
26. Euclid Avenue Autopark (G-6) (EPRK)
27. Family Housing Children's Center—Main Offices (A-9) (DACR)
28. Family Housing Children's Center—Colorado Court (L-2)
- * Fine Arts (G-6). See *Sibell Wolfe Fine Arts*.
29. Fiske Planetarium and Science Center (J-10) (FISK)
30. Fleming Law (K-10) (LAW)
31. Folsom Stadium (E-8) (STAD)
32. Gamow Tower (F-7) (DUAN)
33. Gates Woodruff Women's Studies Cottage (F-3) (COTT)
34. Grounds and Service Center (D-9) (GRNS)
35. Guggenheim Geography (F-3) (GUGG)
36. Hale Science (E-3) (HALE)
37. Health Physics Laboratory (D-9) (HPHY)
38. Helles Arts and Sciences/Mary Rippon Theatre (G-4) (HLMS)
- * Henderson Building (G-4). See *Museum of Natural History*.
39. Housing System Maintenance Center (K-3) (HSMC)
40. Housing System Service Center (J-2) (HSSC)
- * Humanities Building (E-5). See *Eaton Humanities*.
41. Imig Music (H-7) (MUS)
42. Institute for Behavioral Genetics (K-1) (IBG)
43. Institute of Behavioral Science No. 1 (D-2) (IBS1)
44. IBS No. 2 (C-2) (IBS2)
45. IBS No. 3 (D-2) (IBS3)
46. IBS No. 4 (D-2) (IBS4)
47. IBS No. 5 (D-4) (IBS5)
48. IBS No. 6 (C-2) (IBS6)
49. IBS No. 7 (C-2) (IBS7)
50. IBS No. 8 (C-3) (IBS8)
51. Integrated Teaching and Learning Laboratory (G-11) (ITLL)
52. International English Center (G-2) (IEC)
53. Joint Institute for Laboratory Astrophysics (G-7) (JILA)
54. Ketchum Arts and Sciences (F-6) (KTCH)
55. Koenig Alumni Center (E-2) (ALUM)
56. Laboratory for Atmospheric and Space Physics (F-7) (LASP)
57. LASP Space Technology Research Center (L-3) (LSTR)
- * Leeds School of Business (H-10) See *Business*.
58. Lesser House (F-11) (LESS)
- * Life Sciences Laboratories Complex (E-7). See *Muenzinger Psychology, Porter Biosciences, and Ramaley Biology*.
59. Macky Auditorium (D-4) (MCKY)
60. Mathematics Building (F-10) (MATH)
61. MCD Biology (E-7) (MCDB)
62. McKenna Languages (E-4) (MKNA)
63. Muenzinger Psychology (E-7) (MUEN)
64. Museum Collections (G-3) (MCOL)
65. Museum of Natural History, University of Colorado (G-4) (HEND)
- * Music Building (H-7). See *Imig Music*.
66. Norlin Library (F-6) (LIBR)
67. Nuclear Physics Laboratory (K-2) (NPL)
68. Old Main (E-4) (MAIN)
69. Page Foundation Center (D-3) (PFDC)
70. Police and Parking Services (G-12) (PDPS)
71. Porter Biosciences (E-7) (PORT)
72. Power House (F-6) (POWR)
73. Qwest Research Park (L-4) (USW)
74. Ramaley Biology (E-6) (RAMY)
75. Regent Administrative Center (I-8) (RGNT)
76. Regent Drive Autopark (G-12) (RPRK)
77. Research Laboratory, Litman RL1 (J-1) (LITR)
78. Research Laboratory, WICHE (K-1) (RL2)
79. Research Laboratory, Life Science RL4 (K-1) (LSRL)
80. Research Laboratory (Marine Street Science Center) RL6 (J-2) (MSSC)
81. Research Park Greenhouse (K-1) (GH-3)
82. Sibell Wolfe Fine Arts (G-6) (FA)
83. Sommers-Bausch Observatory (I-11) (OBSV)

84. Speech, Language, and Hearing Sciences (I-11) (SLHS)
85. Stadium Offices (E-8) (STAD)
86. Stadium Ticket Building (F-9) (STTB)
87. Student Recreation Center (D-6/7) (REC)
88. Sybase (K-3) (SYBS)
89. Telecommunications Building (G-6) (TCOM)
90. Temporary Building No.1 (D-6) (TB01)
91. Transportation Center (J-2) (TRAN)
92. University Administrative Center and Annex (I-7) (UCTR)
93. University Club (H-6) (CLUB)
94. University Memorial Center (G-5) (UMC)
95. University Theatre (including Charlotte York Irey Studios) (F-4) (THTR)
96. Wardenburg Health Center (H-7) (WARD)
97. Willard Administrative Center—North Wing (H-9) (WCTR)
98. Woodbury Arts and Sciences (E-5) (WDBY)

University Housing

99. Aden Hall—Quadrangle (G-9) (ADEN)
100. Andrews Hall—Kitterdige Complex (J-11) (ANDS)
101. Arnett Hall—Kitterdige Complex (J-12) (ARNT)
102. Athens Court (B/C-6/7) (ATCT)
103. Athens North Court (B-6) (ATHN)
104. Baker Hall (G-7) (BKER)
105. Brackett Hall—Quadrangle (G-9) (BRKT)
106. Buckingham Hall—Kitterdige Complex (K-12) (BUCK)
107. Cheyenne Arapaho Hall (H-7) (CHEY)
108. Cockerell Hall—Quadrangle (G-10) (CKRL)
9. College Inn (B-5) (CICC)
109. Colorado Court (L-1)
110. Crosman Hall—Quadrangle (G-10) (CROS)
111. Darley Commons—Williams Village (DLYC)
112. Darley Towers—Williams Village (DLYT)
113. Faculty-Staff Court (C-5/6) (FACT)
114. Farrand Hall (H-9) (FRND)
115. Hallett Hall (H-9) (HLET)
116. Kitterdige Commons—Kitterdige Complex (J-10) (KITT)
117. Kitterdige West Hall—Kitterdige Complex (J-10) (KITW)
118. Libby Hall (G-8) (LIBY)
119. Marine Court (B-7) (MRCT)
120. Newton Court (B/C-9/10) (NTCT)
121. Reed Hall (H-10) (REED)
122. Sewall Hall (D-5) (SWLL)
123. Smiley Court (L-1) (SMCT)
124. Smith Hall—Kitterdige Complex (K-11) (SMTH)
125. Stearns Towers—Williams Village (STRN)
126. Willard Hall—South Wing (H-8) (WLRD)
- * Williams Village. See *Darley Commons, Darley Towers, and Stearns Towers*.

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



Based on map produced by University Communications.

Registration Information

Registration Begins December 2!

1. **Register by Mail.** A postage-paid envelope is located in this catalog. Registration forms are on page 59 for evening credit and page 60 for personal enrichment and computer courses.
2. **Fax Your Registration.** Fast and easy. Day or night to 303-492-3962. Send page 59 for evening credit courses and page 60 for personal enrichment and computer courses.
3. **In Person.** Come to the Continuing Education Office, 1505 University Avenue.
4. **By Phone for Personal Enrichment and Computer Courses using Visa, MasterCard, and Discover.** Complete the registration form (page 60) and have your credit card information handy. Then call 303-492-5148 or 800-331-2801 (TTY 303-492-8905).
5. **Use CU Connect or PLUS for Boulder Evening and Independent Learning Courses.** See page 16 for more information.

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

Office Hours

Fall and Spring hours

Monday-Friday 8 a.m.-5 p.m. (Thursdays until 6 p.m. except December 26 and January 2).

The University will be closed Thursday and Friday, November 28 and 29; Tuesday and Wednesday, December 24 and 25; Wednesday, January 1; Monday, January 20; and Friday, March 28.

Tuition

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

Student residency does not affect tuition charged for Personal Enrichment and Computer Applications courses.

All tuition and refund determinations are subject to audit.

Credit Programs

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

- Boulder Evening Credit Program
- Independent Learning Programs
- ACCESS and High School Concurrent Programs
- Center for Advanced Training in Engineering and Computer Science (CATECS)
- Summer Session

Learning for Learning's Sake: Personal Enrichment Program

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

Professional Enhancement: Certificate Programs

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

Network Administration

Programming

Web Site Design

Web Graphics

Professional Development Programs

For working professionals to build and enhance business skills.

Center for Business Education

International English Center

Course Locations

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

Parking

Continuing Education students follow campus policy procedures. Parking permits may be purchased through Parking Services, 1050 Regent Drive. During special events on campus, students may present their registration receipt to park at no extra charge. Additional information is available on the Web at ucbparking.colorado.edu.

Course Updates

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

Change Your Mind?

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

Student Privacy

You may elect to have directory information withheld about yourself. Please call or visit our office to receive the required form.

Severe Weather

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

Books and Supplies

Required course materials are available at the CU Bookstore in the University Memorial Center on campus. Call 303-492-6411 or visit their web site at cubooks.colorado.edu

Additional Information

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

Credit Registration Form

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

Credit Registration Form



**UNIVERSITY OF COLORADO
 DIVISION OF CONTINUING EDUCATION**

PROGRAM / TERM

Last Name	First Name	Middle Name	Former or Maiden Name

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

E-mail address _____ Home Phone _____ Work Phone _____

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

SEX:
 Male
 Female

ETHNICITY:
 African American or Black, not of Hispanic origin
 American Indian or Alaskan Native - Tribe: _____
 Asian or Pacific Islander
 Hispanic, Chicano, Mexican American, Latino
 Multiracial - define: _____
 White, not of Hispanic origin
 I do not wish to provide this information

RESIDENCY:
 Colorado
 Other State Abbr. _____

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

FORMER CU STUDENT NUMBER: _____

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

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.

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

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

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

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

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

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

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

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

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

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

Noncredit Registration Form

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

University of Colorado Catalog (USPS 651-060) is published 8X a year (January/February, March/April, May, May/June, August, 3X in December), by the University of Colorado, 3100 Marine Street, 584 UCB, Boulder, CO 80309-0584. Volume 2003, No 7. Periodicals Postage Paid at Boulder, Colorado. POSTMASTER: Send address changes to University of Colorado Catalog, Division of Continuing Education, University of Colorado at Boulder, 178 UCB, Boulder, CO 80309-0178.

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

This publication was printed and mailed using funds generated solely by Continuing Education programs. Continuing Education regrets any printing errors, but accepts no liability for them.

Instruction offered as part of the Statewide Extended Studies Program.



Noncredit Registration Form

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

FULL LEGAL NAME: _____ **SOCIAL SECURITY NO.:** _____
Last First Middle Former or Maiden (For identification purposes only. Required for TRA tax credits.)

HOME WORK ADDRESS: _____
No. and Street, Apt. No. City State Zip

If using "work" address, enter COMPANY NAME: _____

HOME PHONE: _____ DAY PHONE: _____ E-MAIL: _____

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

COMPUTER APPLICATIONS:
 Are you working toward a program certificate? No Yes
 If yes, please indicate which certificate:
 Network Administration
 Programming
 Web Site Design
 Web Graphics

ETHNICITY:
 African American or Black, not of Hispanic origin
 American Indian or Alaskan Native - Tribe: _____
 Asian or Pacific Islander
 Hispanic, Chicano, Mexican American, Latino
 Multiracial - define: _____
 White, not of Hispanic origin
 I do not wish to provide this information

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

- Are you a University of Colorado at Boulder faculty/staff member? No Yes
- Have you ever enrolled for any courses at any campus of the University of Colorado? No Yes If yes, most recent: Term: ____ Year: ____ Campus: ____
- Do you owe a debt to any University of Colorado campus? No Yes
- Have you ever been convicted of a felony (other than a traffic violation)? No Yes (If yes, you must attach the required "CE supplemental form.")

COURSE SELECTION	Alpha Prefix	Course No.	Section No.	COURSE TITLE	Tuition
Total Enclosed					\$

I hereby certify that, to the best of my knowledge, the information furnished on this application is true and complete. Please register me for the course(s) listed above. I agree to observe all campus policies and regulations including the Honor Code.

Signature: _____ Date: _____

Tuition Payment (Your payment must accompany this registration form.)	
Method of payment: <input type="checkbox"/> Check or Money Order (Make payable to University of Colorado , and attach to this form.) <input type="checkbox"/> Credit Card (Complete the credit card section.)	Charge my: <input type="checkbox"/> VISA <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover <input type="checkbox"/> University ACARD
Mail your registration to: Division of Continuing Education University of Colorado at Boulder 178 UCB Boulder, CO 80309-0178	Acct. No: _____ Expiration Date: ____/____/____ Cardholder's Name: _____ <small>Please print.</small>
Or, if using a credit card, fax your registration to 303-492-3962 , or call 303-492-5148 to register over the phone.	

Index

- A**
ACCESS Program 25
Access (database software) 38-39, 52
Accounting 7
Acting 32
Algebra 13
Algorithm Design 44
American Sign Language 15, 23
Anthropology 7, 19
Applied Music 22
Appraisal program 54
Arabic 7
Art History 10
Astrophysical and Planetary Sciences 7, 19
- B**
Biology 7
Bookmaking 10
Boulder Evening Credit Program 3-15
Business courses 7-8, 12
Business Education, Center for 54
- C**
C++ programming 44
C# programming 47
Campus Map 56-57
CATECS 25
CEDIR Program 54
Certificate Programs
 Business Intensive 54
 Embedded Systems 55
 Executive Development 54
 Network Administration 50
 Programming 51
 Software Engineering 55
 Web Graphics 50
 Web Site Design 51
Chinese 30
ColdFusion 49
Communication 8, 19
Computer Applications Program 35-52
Computer Graphics 39-41
Computer Science 19
Correspondence study 19-22, 24
Creative writing 8, 32
CU Connect 16-17
CUBIC Program 54
- D**
Databases 38-39, 52
Degree Completion Program 25
Distance learning 19-24, 25
Drawing 10, 28
Dreamweaver 49
- E**
Economics 8, 19
Education 20
Embedded Systems Certificate 55
Engineering 25, 55
English 8-9, 20, 23
English as a Second Language 53
Excel 38
Executive Education 54
Extensible Markup Language (XML) 47
- F**
Faculty/Staff Discounts 3, 27, 36
50 for Colorado 54
Film Studies 9
Fine Arts 10, 20, 28-30
Fireworks 41
Flash 49
Foreign Languages 7, 11, 15, 30-32
French 30
- G**
Geography 10-11, 20
Geology 20
German 30
Getting Published Series 33
Graphic design 39
Graphics 39-41
- H**
Hebrew 11
High School Concurrent Program 25
High School correspondence 24
History 11-12, 21
HTML 47-48
- I**
Illustrator 40-41
Independent Learning Programs 19-24
International English Center 53
Internet applications 47
Italian 31
- J**
Japanese 31
Java programming 44-45
JavaScript 48
Journalism 12, 21
- K**
Kinesiology and Applied Physiology 12, 21
- L**
Literature 9
- M**
Management 12
Marketing 8
Mathematics 13, 14, 21, 32
Music 13, 21, 22
- N**
.NET 46, 47
Network Administration Certificate 50
Networks 41-43
Nontraditional Student Scholarships 3, 27, 36
Nutrition 12
- O**
Object-Oriented Design 45
Oil painting 29
Online courses 19-23
- P**
Painting 10, 29
Papermaking 29
Parking 56-57, 58
PERL 46
Personal Enrichment Program 27-33
Philosophy 13, 21
Photography 10, 30
Photoshop 40, 52
PLUS 16-17
Political Science 13, 21
Portuguese 31
Programming 43-47
Programming Certificate 51
Project management 46
Psychology 13-14, 22
Public Speaking 8
- Q**
Quantitative Reasoning and Mathematical Skills 14
- R**
Real Estate Appraisal Program 54
Refunds
 Boulder Evening 4
 Computer Applications 35
 Personal Enrichment 27
Registration Information 58
Relational databases 39
- S**
Scholarships 3, 27, 36
Scriptwriting 12
Sculpture 29
Shakespeare 9, 32
Shockwave Studio 41
Sign Language 15, 23
Simple Object Access Protocol (SOAP) 47
Sociology 14-15, 22
Software Engineering Certificate 55
Software project management 46
Spanish 15, 31-32
Speech, Language and Hearing Sciences 15, 22, 23
Spreadsheets 38
SQL programming 39
Statistics 8
Stonecarving 29
Summer Session 25
- T**
Term-based web courses 23
Theatre 15, 32
- U**
UNIX 42-43
- V**
Visual Basic 46
- W**
Water Media 28
Web applications 47-49
Web-based courses 19-23
Web Graphics Certificate 50
Web registration 17
Web Site Design Certificate 51
Windows 38
Windows administration 42
Workshops 52
Writing 8, 9, 12, 32-33
Writing and Rhetoric 15, 22, 23
- X**
XML (Extensible Markup Language) 47

Colorado

University of Colorado at Boulder

Division of Continuing Education

1505 University Avenue

University of Colorado at Boulder

178 UCB

Boulder, Colorado 80309-0178

19170

www.colorado.edu/conted



Continuing EDUCATION

Branch out and explore the potential in your future today! CU-Boulder

Continuing Education has the classes to help you realize your full potential.

Let us help you

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