

Continuing EDUCATION

UNIVERSITY OF COLORADO AT BOULDER CATALOG

Fall 2002

WELCOME

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

Fundamentals of Marketing 1
(see Boulder Evening)

Biology: A Human Approach 1
(see Boulder Evening)

To Speak or Not to Speak
(see Personal Enrichment)

Travels in Spanish: Spain
(see Personal Enrichment)

Security Essentials and Network Design
(see Computer Applications)

Web Services and Simple Object Access Protocol (SOAP) *(see Computer Applications)*

Intermediate Fiction Workshop: Western Essay. Take it through Boulder Evening for university credit or Personal Enrichment for noncredit.

Program Update The Certificate in Network Administration has been restructured with 2 options: Beginning and Intermediate. See page 36 for details.

The Center for Advanced Training in Engineering and Computer Science (CATECS) announces the opening of the master's of Engineering Management degree to undergraduate, non-engineering majors; and the new Professional Certificate in Project Management. Visit www.colorado.edu/CATECS for more information.

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

CONTINUING
EDUCATION
CENTER

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

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Computer Applications Program

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

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

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CATALOG PRODUCTION

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

The Continuing Education department offers a perfectly painless way to learn about politics in other countries:

Loren Weinberg's Political Science and Literature. "Teaching political science through literature is a blast. Students get in touch with far parts of the globe, and it's a wonderful way to learn about other countries' political systems." This is Weinberg's favorite course, and why not? You learn about the politics and culture of faraway places from novels – better than textbooks any day.



“In my class we read really great stuff and learn about political systems along the way.”

Boulder Evening Credit Program

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

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

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

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

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

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

Final Grades: Final grades for Boulder Evening will be available approximately 2 weeks after the course ends. To check your final grade, see the "Grades" information on the CU Connect and PLUS Registration Instructions, page 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 \$326 per credit hour. Nonresidents registering for four (4) or more semester hours of Boulder Evening credit courses will be assessed a significantly higher rate that is comparable to the regular campus, nonresident rate.

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

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

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

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

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

Scholarships: Students who are 25 years of age or older are eligible for the Nontraditional Student Scholarship for Continuing Education enrollment. August 12 is the fall application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/conted/scholar.htm.

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 Boulder Evening 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

FALL 2002

August 5

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.

August 12

Deadline to apply for Nontraditional Student Scholarship.

September 2

Labor Day holiday. University closed.

September 3

Full Term and Session I classes begin.

September 6

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

September 10

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.

September 11

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

September 13

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

September 17

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.*

September 18

Instructors signature required to add or drop Full Term classes.

September 24

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

September 25

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.

October 1

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

October 10-11

Fall Break. NO CLASSES.

October 15

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

October 16

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

October 21-22

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

October 23

Session II classes begin.

October 28

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

October 30

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.

October 31

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

November 6

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

Tuition for Session II due.

November 13

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

November 14

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

November 27

NO CLASSES.

November 28-29

Thanksgiving Holiday. University closed.

December 3-19

Full Term classes end.

December 11-12

Session II classes end.

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

Classes by Start Date

FULL TERM CLASSES

Monday Courses, Begin September 9 and End December 9

Course No.-Hours	Sec	Call #	Times	Course Title	Core
✓ ASTR 1110-3	300	90172	6-9 p.m.	General Astronomy: The Solar System	natural science
✓ BCOR 2010-3	300	90173	6-9 p.m.	Business Statistics	Business Core
✓ ECON 1078-3	300	90174	6-9 p.m.	Mathematical Tools for Economists 1	quantitative reasoning and mathematical skills
✓ ENGL 1191-3	300	90175	5:30-8:30 p.m.	Introduction to Creative Writing	none
✓ HIST 1608-3	300	90176	5:30-8:30 p.m.	Introduction to Chinese History	historical context
HIST 2227-3	300	90234	6:30-9:30 p.m.	History of the American Southwest	United States context
✓ JOUR 4874-3	300	90177	6:30-9:30 p.m.	Special Topics: Scriptwriting for the Entertainment Industry	none
✓ PHIL 1000-3	300	90178	6-9 p.m.	Introduction to Philosophy	ideals and values
✓ PSYC 2606-3	300	90179	6:30-9:30 p.m.	Social Psychology	contemporary societies

Monday and Thursday Course, Begins September 5 and Ends December 16

✓ MATH 1300-5	300	90168	5:30-8:15 p.m.	Analytic Geometry and Calculus 1	quantitative reasoning and mathematical skills
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Monday and Wednesday Courses, Begin September 4 and End December 11

✓ ARAB 1010-5	300	90134	5:30-8 p.m.	Beginning Arabic 1	foreign language
✓ FINE 1212-3	300	90145	6:30-9:30 p.m.	Painting 1	none
✓ FINE 2191-3	300	90146	6:30-9 p.m.	Photography 2	none
✓ SPAN 1010-5	302	90156	6-8:30 p.m.	Beginning Spanish 1	foreign language
✓ SPAN 1020-5	300	90157	6:30-9 p.m.	Beginning Spanish 2	foreign language
✓ WRTG 3020-3	302	90237	5:30-7 p.m.	Topics in Writing: Music and Society	written communication

Monday, Wednesday, and Friday Course, Begins September 4 and Ends December 9

✓ HEBR 1020-5	300	90123	11 a.m.-1 p.m.	Beginning Hebrew 2	foreign language
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Tuesday Courses, Begin September 3 and End December 3

✓ ANTH 3010-3	300	90105	6:30-9:30 p.m.	The Human Animal	natural science
✓ COMM 2400-3	300	90107	6:30-9:30 p.m.	Communication and Society	contemporary societies
✓ ECON 1088-3	300	90109	6-9 p.m.	Mathematical Tools for Economists 2	none
✓ EMUS 1832-3	300	90110	6-9 p.m.	Appreciation of Music	literature and the arts
✓ ENGL 3000-3	300	90111	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
✓ ENGL 3081-3	300	90112	6-9 p.m.	Intermediate Nonfiction Workshop: The Western Essay	none
✓ EPOB 1030-3	300	90119	6-9 p.m.	Biology: A Human Approach 1	natural science
✓ EPOB 1210-3	300	90120	6-9 p.m.	General Biology 1	natural science
✓ HIST 1010-3	300	90124	6-9 p.m.	Western Civilization 1: From Antiquity to the 16th Century	historical context
HIST 2866-3	300	90125	6:30-9:30 p.m.	American History and Film	United States context
✓ MGMT 3030-3	300	90127	6:30-9:30 p.m.	Critical Leadership Skills	none
✓ PSCI 1101-3	300	90128	6-9 p.m.	The American Political System	contemporary societies or United States context
✓ PSCI 2223-3	300	90129	5:30-8:30 p.m.	Introduction to International Relations	contemporary societies
✓ SPAN 2110-3	300	90132	6-9 p.m.	Second-Year Spanish 1	foreign language
✓ SPAN 2120-3	300	90133	6-9 p.m.	Second-Year Spanish 2	foreign language

Tuesday and Thursday Courses, Begin September 3 and End December 12

✓ ARAB 2120-3	300	90232	4:30-6 p.m.	Intermediate Arabic 2	foreign language
BCOR 2000-4	300	90135	6:30-8:30 p.m.	Accounting and Financial Analysis 1	Business Core
✓ FINE 1012-3	300	90143	6:30-9:30 p.m.	Drawing 1	none
✓ FINE 1171-3	300	90144	6:30-9 p.m.	Photography 1	none
✓ SLHS 2315-4	300	90152	6:30-8:30 p.m.	American Sign Language 2	foreign language
✓ SPAN 1010-5	301	90155	6:30-9 p.m.	Beginning Spanish 1	foreign language
✓ WRTG 3020-3	301	90159	5:30-7 p.m.	Topics in Writing: Environmental Issues	written communication

Wednesday Courses, Begin September 4 and End December 11

Course No.-Hours	Sec	Call #	Times	Course Title	Core
✓BCOR 2050-3	300	90267	6-9 p.m.	Fundamentals of Marketing 1	Business Core
✓ECON 2010-4	300	90136	6-9 p.m.	Principles of Microeconomics	contemporary societies
✓EMUS 2752-3	300	90137	6-9 p.m.	Music in American Culture	United States context
✓ENGL 1800-3	300	90139	6-9 p.m.	American Ethnic Literatures	cultural and gender diversity
✓ENGL 3060-3	300	90140	5:30-8:30 p.m.	Modern and Contemporary Literature	literature and the arts
✓FILM 3501-3	300	90142	7-10 p.m.	Film Production Management	none
✓GEOG 3251-3	300	90148	6-9 p.m.	Mountain Geography	none
PHIL 1600-3	300	90149	6:30-9:30 p.m.	Philosophy and Religion	ideals and values
✓PSYC 1001-3	300	90150	6:30-9:30 p.m.	General Psychology	none
✓QRMS 1010-3	300	90151	6-9 p.m.	Quantitative Reasoning and Mathematical Skills	quantitative reasoning and mathematical skills
✓SOCY 1006-3	300	90154	6-9 p.m.	The Social Construction of Sexuality	cultural and gender diversity
✓THTR 1009-3	300	90158	6-9 p.m.	Introduction to Theatre	literature and the arts
✓THTR 3011-3	300	90236	6-9 p.m.	Development of the American Musical Theatre	literature and the arts

Thursday Courses, Begin September 5 and End December 19

✓ANTH 2010-3	300	90161	6:30-9:30 p.m.	Introduction to Physical Anthropology 1	natural science
✓COMM 1300-3	300	90162	6:30-9:30 p.m.	Public Speaking	none
✓ECON 2020-4	300	90163	6-9 p.m.	Principles of Macroeconomics	contemporary societies
✓FINE 1300-3	300	90164	6:30-9:30 p.m.	History of World Art 1	literature and the arts
✓HIST 2103-3	300	90165	6:30-9:30 p.m.	The History of England to 1660	historical context
✓KAPH 3420-3	300	90166	6-9 p.m.	Nutrition, Health and Performance	natural science
✓MATH 1011-3	300	90167	6-9 p.m.	Fundamentals and Techniques of College Algebra	quantitative reasoning and mathematical skills
✓PSCI 2004-3	300	90169	6-9 p.m.	Survey of Western Political Thought	ideals and values
✓PSYC 4303-3	300	90170	6:30-9:30 p.m.	Abnormal Psychology	none
✓SOCY 4024-3	300	90171	6-9 p.m.	Juvenile Delinquency	contemporary societies

SESSION I CLASSES

Monday and Wednesday Courses, Begin September 4 and End October 21

✓ENGL 1260-3	100	90138	6-9 p.m.	Introduction to Women's Literature	cultural and gender diversity
ENGL 3000-3	100	90190	5:30-8:30 p.m.	Shakespeare for Nonmajors	literature and the arts
✓ENGL 3060-3	100	90141	6-9 p.m.	Modern and Contemporary Literature	literature and the arts
✓GEOG 1982-3	100	90147	6-9 p.m.	World Regional Geography	none
✓HIST 1015-3	100	90233	6-9 p.m.	History of the United States to 1865	United States context
✓SOCY 1004-3	100	90153	6-9 p.m.	Deviance in U.S. Society	ideals and values

Tuesday and Thursday Courses, Begin September 3 and End October 22

✓FILM 3563-3	100	90121	7-10 p.m.	Producing the Feature Film	none
✓GEOG 1001-4	100	90122	6-9 p.m.	Environmental Systems 1 – Climate and Vegetation	natural science
✓JOUR 1002-3	100	90126	6-9 p.m.	Critical Thinking and Writing	none
✓SOCY 1005-3	100	90130	6-9 p.m.	Social Conflict and Social Values	contemporary societies or ideals and values
✓SOCY 1015-3	100	90131	6-9 p.m.	U.S. Race and Ethnic Relations	United States context

SESSION II CLASSES

Monday and Wednesday Courses, Begin October 23 and End December 11

✓COMM 2400-3	200	90189	6:30-9:30 p.m.	Communication and Society	contemporary societies
✓ENGL 1600-3	200	90180	6-9 p.m.	Masterpieces of American Literature	literature and the arts
✓GEOG 1992-3	200	90181	6-9 p.m.	Human Geographies	none
✓HIST 2326-3	200	90235	6-9 p.m.	Issues in American Thought and Culture	United States context
✓KAPH 3420-3	200	90182	6-9 p.m.	Nutrition, Health and Performance	natural science
✓PSCI 4734-3	200	90183	6-9 p.m.	Politics and Literature	critical thinking
✓SOCY 1016-3	200	90184	6-9 p.m.	Sex, Gender, and Society 1	cultural and gender diversity

Tuesday and Thursday Courses, Begin October 24 and End December 12

✓COMM 1300-3	200	90185	6-9 p.m.	Public Speaking	none
✓GEOG 1011-4	200	90186	6-9 p.m.	Environmental Systems 2 – Landscapes and Water	natural science
✓JOUR 1001-3	200	90187	6-9 p.m.	Contemporary Mass Media	none
✓SOCY 3151-3	200	90188	6-9 p.m.	Self in Modern Society	United States context or ideals and values

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

3 SEMESTER HOURS

Detailed consideration of human biology, human place in the animal kingdom, primate ecology, and fossil evidence for human evolution. Students may not receive credit for both ANTH 2010 and 2050. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: natural science.

Sue Woods, Ph.D.

Full Term - Section 300: Call No. 90161
Thursdays, 6:30-9:30 p.m. Hale 240.
\$408 (resident).

The Human Animal
ANTH 3010

3 SEMESTER HOURS

Identifies genetic, anatomical, physiological, social, and behavioral characteristics humans share with other mammals and primates. Explores how these characteristics are influenced by modern culture. Prereq., ANTH 2010 and 2020, or equivalent. Approved for arts and sciences core curriculum: natural science.

Sue Woods, Ph.D.

Full Term - Section 300: Call No. 90105
Tuesdays, 6:30-9:30 p.m. Hale 240.
\$408 (resident).

ARABIC**Beginning Arabic 1**
ARAB 1010

5 SEMESTER HOURS

This is the first semester of the first year of Arabic and includes beginning grammar and conversation. This course is tentatively scheduled to be offered again in fall 2004. Approved for arts and sciences core curriculum: foreign language.

Nadia Turk, Ph.D.

Full Term - Section 300: Call No. 90134
Mondays and Wednesdays, 5:30-8 p.m.
Hellems 137. \$700 (resident).

Intermediate Arabic 2
ARAB 2120

3 SEMESTER HOURS

This course is the second semester of second year Arabic and covers advanced grammar and conversation. Prereq., ARAB 2110. Approved for arts and sciences core curriculum: foreign language.

Nadia Turk, Ph.D.

Full Term - Section 300: Call No. 90232
Tuesdays and Thursdays, 4:30-6 p.m.
Hellems 245. \$428 (resident).

ASTROPHYSICAL AND PLANETARY SCIENCES**General Astronomy: The Solar System**
ASTR 1110

3 SEMESTER HOURS

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

Joe Romig, Ph.D.

Full Term - Section 300: Call No. 90172
Mondays, 6-9 p.m. Hale 270. \$408 (resident).

BIOLOGY**Biology: A Human Approach 1**
EPOB 1030

3 SEMESTER HOURS

Studies the principles of biology and their implications. Central theme is humans and the environment, emphasizing ecology, natural resource conservation, and the interrelatedness of a growing human population. Recommended for nonscience majors. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: natural science.

Alcinda Lewis, Ph.D.

Full Term - Section 300: Call No. 90119
Tuesdays, 6-9 p.m. Ramaley N1B31.
\$408 (resident).



CU undergrad Danny Moritz is taking Marco de Martino's Chinese History to fulfill a requirement for his major, but also because he likes the instructors in the Continuing Education program. "You can tell they want to be there, and they're compassionate." Besides, by taking a course at night, he frees up time during the day - for studying.

General Biology 1
EPOB 1210

3 SEMESTER HOURS

Provides a concentrated introduction to molecular, cellular, genetic, and evolutionary biology. Emphasizes fundamental principles, concepts, facts, and questions. Intended for science majors who are not EPOB majors. Similar to EPOB 2060 and 2660. Approved for arts and sciences core curriculum: natural science.

Beth Bennett, Ph.D.

Full Term - Section 300: Call No. 90120
Tuesdays, 6-9 p.m. Hellems 199.
\$408 (resident).

BUSINESS CORE**Accounting and Financial Analysis I**
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. This course is a core requirement for all Business majors. Prereq., sophomore standing.

Rafael Lara, M.S.

Full Term - Section 300: Call No. 90135
Tuesdays and Thursdays, 6:30-8:30 p.m.
Business 352. \$544 (resident).

Business Statistics
BCOR 2010

3 SEMESTER HOURS

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

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

Full Term - Section 300: Call No. 90173
Mondays, 6-9 p.m. Business 353.
\$408 (resident).

Fundamentals of Marketing I
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 distribution. This course is a core requirement for all Business majors. Coreq., second semester of ECON series and sophomore standing.

Joseph Thomas, M.S., M.B.A.

Full Term - Section 300: Call No. 90267
Wednesdays, 6-9 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, M.A.

Full Term - Section 300: Call No. 90162
Thursdays, 6:30-9:30 p.m. Humanities 1B90.
\$408 (resident).

David Steiner, Ph.D.

Session II - Section 200: Call No. 90185
Tuesdays and Thursdays, 6-9 p.m.
Ketchum 120. \$408 (resident).

Communication and Society
COMM 2400

3 SEMESTER HOURS

Examines how aspects of talk (turn-taking, speech acts, narratives, dialect, stance indicators) link with identities (ethnic and racial, age, gender, work-related and personal). Considers how communication is central to constructing who people are. Examines social controversies related to talk and identities. Approved for arts and sciences core curriculum: contemporary societies.

Joel Guenther, M.A.

Full Term - Section 300: Call No. 90107
Tuesdays, 6:30-9:30 p.m. Humanities 190.
\$408 (resident).

Session II - Section 200: Call No. 90189
Mondays and Wednesdays, 6:30-9:30 p.m.
Humanities 180. \$408 (resident).

ECONOMICS**Mathematical Tools**
for Economists I
ECON 1078

3 SEMESTER HOURS

Teaches mathematical skills and logical thinking for use in economics. Topics include algebra, graphs, functions, and probability. The class includes many real-world examples and some illustrative computer assignments. Can be used to meet Business math requirement. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

William Mertens, Ph.D.

Full Term - Section 300: Call No. 90174
Mondays, 6-9 p.m. Economics 119.
\$408 (resident).

Mathematical Tools
for Economists 2**ECON 1088**

3 SEMESTER HOURS

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

William Mertens, Ph.D.

Full Term - Section 300: Call No. 90109
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 or 1000 or 1001. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: contemporary societies.

William Mertens, Ph.D.

Full Term - Section 300: Call No. 90136
Wednesdays, 6-9 p.m. Economics 2.
\$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. Students may not receive credit for ECON 2020 and 2021 or 1000 or 1001. Prereq., ECON 2010. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: contemporary societies.

Rachael Small, M.B.A.

Full Term - Section 300: Call No. 90163
Thursdays, 6-9 p.m. Economics 119.
\$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, Ph.D.

Full Term - Section 300: Call No. 90175
Mondays, 5:30-8:30 p.m. Hellems 259.
\$408 (resident).

Introduction to Women's Literature
ENGL 1260

3 SEMESTER HOURS

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

Patricia Thompson, M.A.

Session I - Section 100: Call No. 90138
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 20th century. Approved for arts and sciences core curriculum: literature and the arts.

Patricia Thompson, M.A.

Session II - Section 200: Call No. 90180
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. Approved for arts and sciences core curriculum: cultural and gender diversity.

Joel Daehnke, Ph.D.

Full Term - Section 300: Call No. 90139
Wednesdays, 6-9 p.m. Economics 117.
\$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, Ph.D.

Full Term - Section 300: Call No. 90111
Tuesdays, 5:30-8:30 p.m. Economics 13.
\$408 (resident).

Pamela Hadas, Ph.D.

Session I - Section 100: Call No. 90190
Mondays and Wednesdays, 5:30-8:30 p.m.
Museum Collections E158. \$408 (resident).

Modern and Contemporary Literature
ENGL 3060

3 SEMESTER HOURS

Close study of significant 20th century poetry, drama and prose works. Readings range from 1920s to the present. Prereq., sophomore standing. Approved for arts and sciences core curriculum: literature and the arts.

George Moore, Ph.D.

Full Term - Section 300: Call No. 90140
Wednesdays, 5:30-8:30 p.m. Hellems 267.
\$408 (resident).

James McVey, Ph.D.

Session I - Section 100: Call No. 90141
Mondays and Wednesdays, 6-9 p.m.
Ketchum 301. \$408 (resident).

Intermediate Nonfiction Workshop: The Western Essay
ENGL 3081

3 SEMESTER HOURS

This course focuses on the western essay as developed by such authors as Edward Abbey, Terry Tempest Williams, William Kittredge and others. Within this context, elements of nature writing, personal essay and memoir will be covered along with the themes of place, landscape, natural history, and personal experience. Prereq., ENGL 1191 or any college level creative writing course, or consent from the instructor. May be repeated for a total of 9 credit hours.

James McVey, Ph.D.

Full Term - Section 300: Call No. 90112
Tuesdays, 6-9 p.m. Hellems 259.
\$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. Emphasizes the critical role the script plays in the production process. Students analyze story structure and components and production values of various feature scripts. Also focuses on the roles, functions, and relationships of writer, producer, director, and editor; the budget process; and all phases in the production process. Screenings in conjunction with script analysis will be featured. This course is designed to lead students into FILM 3501 which has a more hands-on approach to production.

Frank Iannella, M.A.

Session I - Section 100: Call No. 90121
Tuesdays and Thursdays, 7-10 p.m.
Humanities 180. \$408 (resident).

(Film Studies continued)

Elizabeth Shen decided to take Marco de Martino's Chinese History course because she eventually wants to teach history. She finds that de Martino is passionate about China, a trait that makes the hours fly by in the classroom. And the evening sessions allow Elizabeth to spend more time with her young daughter during the day. "People don't realize how easy it is to take Continuing Ed classes and get your degree."

Film Production Management FILM 3501

3 SEMESTER HOURS

Familiarizes students with the principles of film management techniques as well as problem-solving methodologies developed specifically for the film industry. Emphasizes 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. Prereq., FILM 2000, COMM 1240 and JOUR 3674.

Frank Iannella, M.A.

Full Term - Section 300: Call No. 90142
Wednesdays, 7-10 p.m. Guggenheim 2.
\$408 (resident).

FINE ARTS

Drawing 1

FINE 1012

3 SEMESTER HOURS

Explores varied drawing techniques and media. Introduces concepts relevant to the understanding of drawing and the creative process. May not be repeated. Prereqs., FINE 1010 and either FINE 1300 or 1400.

Tyler Alpern, M.F.A.

Full Term - Section 300: Call No. 90143
Tuesdays and Thursdays, 6:30-9:30 p.m.
Fine Arts N298. \$458 (resident).

Photography 1

FINE 1171

3 SEMESTER HOURS

Introduces techniques and concepts of photography as art. Emphasizes photography as a means to formal and expressive ends. Students must have an adjustable camera. Prereq., FINE 1010 and either FINE 1300 or 1400.

Greg Massey, M.F.A.

Full Term - Section 300: Call No. 90144
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. Prereq., FINE 1010, and either FINE 1300 or 1400.

Susanna Podboy, M.F.A.

Full Term - Section 300: Call No. 90145
Mondays and Wednesdays, 6:30-9:30 p.m.
Fine Arts N103. \$458 (resident).

History of World Art 1

FINE 1300

3 SEMESTER HOURS

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

Christine Dupont-Patz, M.A.

Full Term - Section 300: Call No. 90164
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. Prereq., FINE 1171.

Greg Massey, M.F.A.

Full Term - Section 300: Call No. 90146
Mondays and Wednesdays, 6:30-9 p.m.
Fine Arts TBA. \$468 (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, Ph.D.

Session I - Section 100: Call No. 90122
Tuesdays and Thursdays, 6-9 p.m.
Guggenheim 205. \$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, Ph.D.

Session II - Section 200: Call No. 90186
Tuesdays and Thursdays, 6-9 p.m.
Guggenheim 205. \$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, M.A.

Session I - Section 100: Call No. 90147
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, M.A.

Session II - Section 200: Call No. 90181
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, Ph.D.

Full Term - Section 300: Call No. 90148
Wednesdays, 6-9 p.m. Guggenheim 205.
\$408 (resident).

HEBREW

Beginning Hebrew 2 HEBR 1020

5 SEMESTER HOURS

This is the second semester of beginning Hebrew. Prereq., HEBR 1010. HEBR 1010 is tentatively scheduled to be offered again fall 2003. Approved for arts and sciences core curriculum: foreign language.

Uri Neil, J.D.

Full Term - Section 300: Call No. 90123
Mondays, Wednesdays, and Fridays,
11 a.m.-1 p.m. Continuing Education
Center (CEDU) 140. \$680 (resident).

HISTORY

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

3 SEMESTER HOURS

Surveys the development of Western civilization from its beginnings in the ancient Near East through the Reformation of the 16th century. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: historical context.

Richard Smith, Ph.D.

Full Term - Section 300: Call No. 90124
Tuesdays, 6-9 p.m. Hellems 201.
\$408 (resident).

History of the United States to 1865 HIST 1015

3 SEMESTER HOURS

Surveys American history from first settlement until end of the Civil War. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: United States context.

Merle Funk, Ph.D.

Session I - Section 100: Call No. 90233
Mondays and Wednesdays, 6-9 p.m.
Ketchum 235. \$408 (resident).

Introduction to Chinese History HIST 1608

3 SEMESTER HOURS

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

Marco de Martino, M.A.

Full Term - Section 300: Call No. 90176
Mondays, 5:30-8:30 p.m. Hellems 211.
\$408 (resident).

The History of England to 1660 HIST 2103

3 SEMESTER HOURS

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

Jean McGinnis, Ph.D.

Full Term - Section 300: Call No. 90165
Thursdays, 6:30-9:30 p.m. Engineering
Center CR 150. \$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, Ph.D.

Full Term - Section 300: Call No. 90234
Mondays, 6:30-9:30 p.m. Hale 240.
\$408 (resident).

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

(History continued)

Issues in American Thought and Culture HIST 2326

3 SEMESTER HOURS

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

Merle Funk, Ph.D.

Session II - Section 200: Call No. 90235
Mondays and Wednesdays, 6-9 p.m.
Ketchum 235. \$408 (resident).

American History and Film HIST 2866

3 SEMESTER HOURS

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

James Fell, Ph.D.

Full Term - Section 300: Call No. 90125
Tuesdays, 6:30-9:30 p.m. Hellems 267.
\$408 (resident).

JOURNALISM

Contemporary Mass Media JOUR 1001

3 SEMESTER HOURS

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

Jan Whitt, Ph.D.

Session II - Section 200: Call No. 90187
Tuesdays and Thursdays, 6-9 p.m.
Hellems 255. \$408 (resident).

Critical Thinking and Writing JOUR 1002

3 SEMESTER HOURS

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

Jan Whitt, Ph.D.

Session I - Section 100: Call No. 90126
Tuesdays and Thursdays, 6-9 p.m.
Hellems 271. \$408 (resident).

Special Topics: Scriptwriting for the Entertainment Industry JOUR 4874

3 SEMESTER HOURS

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

Frank Iannella, M.A.

Full Term - Section 300: Call No. 90177
Mondays, 6:30-9:30 p.m. Humanities 190.
\$408 (resident).

KINESIOLOGY AND APPLIED PHYSIOLOGY

Nutrition, Health and Performance KAPH 3420

3 SEMESTER HOURS

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

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

Full Term - Section 300: Call No. 90166
Thursdays, 6-9 p.m. Humanities 1B80.
\$408 (resident).

Luke Seaward, Ph.D.

Session II - Section 200: Call No. 90182
Mondays and Wednesdays, 6-9 p.m.
Humanities 250. \$408 (resident).

MANAGEMENT

Critical Leadership Skills MGMT 3030

3 SEMESTER HOURS

Provides an opportunity to learn about and practice the skills required of all managers. These skills include leadership, negotiation, conducting performance appraisals, delegation, effective communication, interviewing and making hiring decisions, and managing employees with problem behaviors. Prereq., BCOR 2150.

Patrick Vann, Ph.D.

Full Term - Section 300: Call No. 90127
Tuesdays, 6:30-9:30 p.m. Muenzinger E113.
\$408 (resident).

MATHEMATICS

Fundamentals and Techniques of College Algebra MATH 1011

3 SEMESTER HOURS

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

Monica Todd, M.A.

Full Term - Section 300: Call No. 90167
Thursdays, 6-9 p.m. Engineering Center
CR 1B55. \$408 (resident).

Analytic Geometry and Calculus I MATH 1300

5 SEMESTER HOURS

Topics include limits, derivatives of algebraic and trigonometric functions, applications of the derivative, integration, and applications of the definite integral. Students with credit in MATH 1080, 1090, and 1100 receive only 2 credit hours in MATH 1300. Students with credit in MATH 1081, 1310, or APPM 1350. Prereq., two years of high school algebra, one year of geometry, and 1/2 year of trigonometry or MATH 1000 through 1040. Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Ira Becker, Ph.D.

Full Term - Section 300: Call No. 90168
Mondays and Thursdays, 5:30-8:15 p.m.
Hellems 247. \$680 (resident).

MUSIC**Appreciation of Music
EMUS 1832**

3 SEMESTER HOURS

Provides a basic knowledge of music literature and development of discriminating listening habits. Approved for arts and sciences core curriculum: literature and the arts. Does not meet requirements in music degrees.

Kevin McCarthy, Ph.D.

Full Term - Section 300: Call No. 90110
Tuesdays, 6-9 p.m. Music N1B59.
\$421 (resident).

**Music in American Culture
EMUS 2752**

3 SEMESTER HOURS

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

Brian Moon, M.M.

Full Term - Section 300: Call No. 90137
Wednesdays, 6-9 p.m. Music N1B59.
\$421 (resident).

PHILOSOPHY**Introduction to Philosophy
PHIL 1000**

3 SEMESTER HOURS

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

Ben Mahlberg, M.A.

Full Term - Section 300: Call No. 90178
Mondays, 6-9 p.m. Ketchum 303.
\$408 (resident).

**Philosophy and Religion
PHIL 1600**

3 SEMESTER HOURS

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

Lee Speer, M.A.

Full Term - Section 300: Call No. 90149
Wednesdays, 6:30-9:30 p.m. Hellems 241.
\$408 (resident).

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

3 SEMESTER HOURS

Emphasizes interrelations among levels and branches of government, formal and informal institutions, processes, and behavior. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: contemporary societies or United States context.

Vincent McGuire, Ph.D.

Full Term - Section 300: Call No. 90128
Tuesdays, 6-9 p.m. Education 220.
\$408 (resident).

**Survey of Western Political Thought
PSCI 2004**

3 SEMESTER HOURS

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

Vincent McGuire, Ph.D.

Full Term - Section 300: Call No. 90169
Thursdays, 6-9 p.m. Duane Physics G131.
\$408 (resident).

**Introduction to
International Relations
PSCI 2223**

3 SEMESTER HOURS

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

Michael Kanner, Ph.D.

Full Term - Section 300: Call No. 90129
Tuesdays, 5:30-8:30 p.m. Clare Small 104.
\$408 (resident).

**Politics and Literature
PSCI 4734**

3 SEMESTER HOURS

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

Loren Weinberg, Ph.D.

Session II - Section 200: Call No. 90183
Mondays and Wednesdays, 6-9 p.m.
Ketchum 301. \$408 (resident).

PSYCHOLOGY**General Psychology
PSYC 1001**

3 SEMESTER HOURS

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

Michael Freedman, Ph.D.

Full Term - Section 300: Call No. 90150
Wednesdays, 6:30-9:30 p.m. Hellems 141.
\$408 (resident).

**Social Psychology
PSYC 2606**

3 SEMESTER HOURS

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

Patrick Vann, Ph.D.

Full Term - Section 300: Call No. 90179
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. Prereq., PSYC 1001.

Patrick Vann, Ph.D.

Full Term - Section 300: Call No. 90170
Thursdays, 6:30-9:30 p.m.
Muenzinger E113. \$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. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: quantitative reasoning and mathematical skills.

Kevin Manley, M.S.

Full Term - Section 300: Call No. 90151
Wednesdays, 6-9 p.m. Engineering Center
CR 155. \$408 (resident).

SOCIOLOGY

Deviance in U.S. Society

SOCY 1004

3 SEMESTER HOURS

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

Allison Cotton, M.A.

Session I - Section 100: Call No. 90153
Mondays and Wednesdays, 6-9 p.m.
Hellems 199. \$408 (resident).

Social Conflict and Social Values

SOCY 1005

3 SEMESTER HOURS

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

Patrick Krueger, M.A.

Session I - Section 100: Call No. 90130
Tuesdays and Thursdays, 6-9 p.m.
Museum Collections E155. \$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.

Melinda Nagai, M.A.

Full Term - Section 300: Call No. 90154
Wednesdays, 6-9 p.m. Education 220.
\$408 (resident).

United States Race and Ethnic Relations

SOCY 1015

3 SEMESTER HOURS

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

Duncan Rinehart, Ph.D.

Session I - Section 100: Call No. 90131
Tuesdays and Thursdays, 6-9 p.m.
Economics 205. \$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 majors theories of gender stratification. Same as WMST 1016. Approved for arts and sciences core curriculum: cultural and gender diversity.

Allison Cotton, M.A.

Session II - Section 200: Call No. 90184
Mondays and Wednesdays, 6-9 p.m.
Hellems 201. \$408 (resident).

Self in Modern Society

SOCY 3151

3 SEMESTER HOURS

Using a variety of Eastern and Western perspectives, this course 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. Prereqs., SOCY 1001 and either 2001, 3001 or 3011. Approved for arts and sciences core curriculum: United States context or ideals and values.

Duncan Rinehart, Ph.D.

Session II - Section 200: Call No. 90188
Tuesdays and Thursdays, 6-9 p.m.
Economics 117. \$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. Prereqs., SOCY 1001 and either 2001, 3001 or 3011. Approved for arts and sciences core curriculum: contemporary societies.

Herbert Covey, Ph.D.

Full Term - Section 300: Call No. 90171
Thursdays, 6-9 p.m. Hellems 141.
\$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, M.A.

Full Term - Section 301: Call No. 90155
Tuesdays and Thursdays, 6:30-9 p.m.
Hellems 193. \$700 (resident).

Wendy Mendez, M.A.

Full Term - Section 302: Call No. 90156
Mondays and Wednesdays, 6-8:30 p.m.
Hellems 181. \$700 (resident).

Beginning Spanish 2
SPAN 1020

5 SEMESTER HOURS

Continuation of SPAN 1010. Attendance at the language laboratory may be mandatory. Prereq., SPAN 1010 with a grade of C- or better or placement. Similar to SPAN 1150. Approved for arts and sciences core curriculum: foreign language.

Javier Garces, B.A.

Full Term - Section 300: Call No. 90157
Mondays and Wednesdays, 6:30-9 p.m.
Hellems 251. \$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. Similar to SPAN 2150. Meets University Minimum Academic Preparation Standards (MAPS). Approved for arts and sciences core curriculum: foreign language.

Wendy Mendez, M.A.

Full Term - Section 300: Call No. 90132
Tuesdays, 6-9 p.m. Hellems 247.
\$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, B.A.

Full Term - Section 300: Call No. 90133
Tuesdays, 6-9 p.m. Hellems 185.
\$428 (resident).

**SPEECH, LANGUAGE
AND HEARING
SCIENCES****American Sign Language 2**
SLHS 2315

4 SEMESTER HOURS

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

Willard Moers, M.A.

Full Term - Section 300: Call No. 90152
Tuesdays and Thursdays, 6:30-8:30 p.m.
Muenzinger E123. \$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. Designed for nonmajors. Approved for arts and sciences core curriculum: literature and the arts.

David Steiner, Ph.D.

Full Term - Section 300: Call No. 90158
Wednesdays, 6-9 p.m. Humanities 1B80.
\$408 (resident).

**Development of the
American Musical Theatre**
THTR 3011

3 SEMESTER HOURS

Studies the American musical theatre heritage and its relation to the continually changing social milieu. Examines productions, their creators, and performers. Prereq., junior or senior standing. Recommended prereq., 3 credit hours in THTR, DNCE, or MUSC. Approved for arts and sciences core curriculum: literature and the arts.

Annette Thornton, M.A.

Full Term - Section 300: Call No. 90236
Wednesdays, 6-9 p.m. Hale 240.
\$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. Restricted to arts and sciences juniors and seniors. Same as NRLN 3020. Approved for arts and sciences core curriculum: written communication.

Environmental Issues*Anne Bliss, Ph.D.*

Full Term - Section 301: Call No. 90159
Tuesdays and Thursdays, 5:30-7 p.m.
Hale 236. \$408 (resident).

~~Music and Society~~

Issues in Biomedical Ethics
Daniel Brigham, M.A.
Wilkinson, Donald
Full Term - Section 302: Call No. 90237
Mondays and Wednesdays, 5:30-7 p.m.
Clare Small 104. \$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 fall and have no academic or financial stop which could prevent you from registering. To be activated for Continuing Education for fall, return the credit registration form on page 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.

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 Fall 2002 and follow the instructions on the web page from there to add, drop or waitlist for a course, and request pass/fail or no credit. You will need to enter the 5 digit course call numbers to register for courses and click on the "submit" button to process each course request. To verify your course

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

You can also conduct online course searches using PLUS. At the PLUS home page choose "Planning Tools" and then Schedule Planner. If you have logged on to PLUS using your student number and PIN, choose the "Course Status" tab at the bottom of the page. Schedule Planner and Course Status allow you to search by subject, level, course number, core requirements, and 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 027
- your University student number _____ - _____ - _____
- your personal identification number (PIN) _____

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

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

Other CU Connect Functions

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

Verifying and Adjusting Your Schedule

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

Wait Lists

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

You can check your position on any course wait list either on the Web at 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 in cooperation with the University of Colorado at Boulder Bursar's Office is offering 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 by going to the CU Bursar's Office web site at www-bursar.colorado.edu, select Internet Bills/Payment and finally Payment Only Option.

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 (027 for fall) followed by your student number and PIN. To determine the term code for previous semesters, the first two digits are the year and the last digit the semester (1=Spring, 4=Summer, 7=Fall).

Additional Web Functions

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

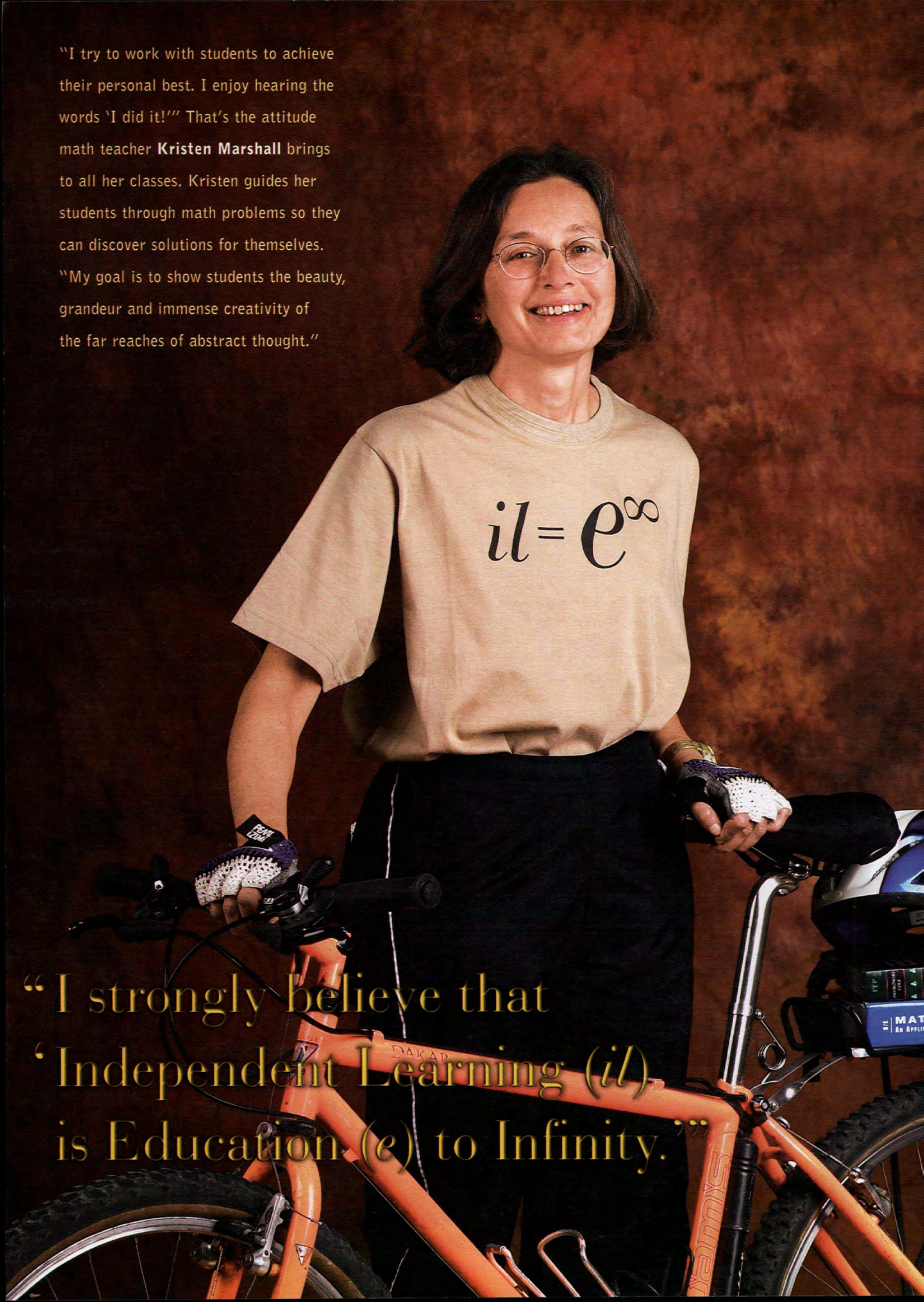
- degree program information (primary and secondary college, major, residency, gpa, and class standing)
- registration status (advising requirements and academic or financial stops)
- class schedule for all current and past terms enrolled and all future terms for which you have registered
- required textbooks
- 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.

"I try to work with students to achieve their personal best. I enjoy hearing the words 'I did it!'" That's the attitude math teacher **Kristen Marshall** brings to all her classes. Kristen guides her students through math problems so they can discover solutions for themselves. "My goal is to show students the beauty, grandeur and immense creativity of the far reaches of abstract thought."

A photograph of a woman, Kristen Marshall, standing next to an orange bicycle. She is wearing a light-colored t-shirt with the mathematical equation $il = e^{\infty}$ printed on it. She is also wearing glasses, a black skirt, and cycling gloves. The bicycle has 'DAKAR' and 'SKYRAX' written on the frame. The background is a textured, brownish wall.
$$il = e^{\infty}$$

"I strongly believe that
'Independent Learning (*il*)
is Education (*e*) to Infinity.'"

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, M.A.	3	90010	\$390
ANTH	1040	650	Principles of Anthropology 2	Kathy Greene, M.A.	3	90011	\$390
ANTH	2010	650	Introduction to Physical Anthropology 1	Kathy Greene, M.A.	3	90012	\$390
ANTH	2020	650	Introduction to Physical Anthropology 2	Kathy Greene, M.A.	3	90013	\$390
ANTH	2070	640	Bones, Bodies, and Disease	Dawn Mulhern, Ph.D.	3	90014	\$390
ANTH	2200	650	Introduction to Archaeology	Kathy Greene, M.A.	3	90015	\$390
ASTROPHYSICAL AND PLANETARY SCIENCES							
ASTR	1110	640	General Astronomy: The Solar System	Kelly Cline, M.S.	3	90016	\$390
COMMUNICATION							
COMM	2400	640	Communication and Society	Robert Agne, M.A.	3	90017	\$390
COMM	2400	650	Communication and Society	Robert Agne, M.A.	3	90018	\$390
COMM	4600	640	Senior Seminar: Computer Mediated Communication in Organizations	Brenda J. Allen, Ph.D.	3	90019	\$390
COMPUTER SCIENCE							
CSCI	2830	640	Special Topics: Social, Ethical, and Professional Issues in Computer Science	James P. Gately, M.T.	1	90020	\$130
CSCI	2830	650	Special Topics: Social, Ethical, and Professional Issues in Computer Science	James P. Gately, M.T.	1	90021	\$130
ECONOMICS							
ECON	2010	641	Principles of Microeconomics	Laura Argys, Ph.D.	4	90022	\$520
ECON	2010	650	Principles of Microeconomics	Laura Argys, Ph.D.	4	90023	\$520
ECON	2020	640	Principles of Macroeconomics	Jules Kaplan, Ph.D.	4	90024	\$520
ECON	2020	650	Principles of Macroeconomics	Laura Argys, Ph.D.	4	90025	\$520
ECON	3403	640	International Economics and Policy	Jules Kaplan, Ph.D.	3	90026	\$390
ECON	4111	640	Money and Banking Systems	Jules Kaplan, Ph.D.	3	90027	\$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, Ed.D.	3	90028	\$390
EDUC	4161	650	Children's Literature	Phyllis Kennemer, Ed.D.	3	90029	\$390
EDUC	4322	650	Literature for Middle School and Secondary School Teachers	Caroline McKinney, M.A.	3	90030	\$390
ENGLISH							
ENGL	1191	650	Introduction to Creative Writing	Michael Arvey, M.A.	3	90032	\$390
ENGL	1260	650	Introduction to Women's Literature	Anne Marie Dannenberg, Ph.D.	3	90033	\$390
ENGL	1600	650	Masterpieces of American Literature	D'Ann Sanko, M.A.	3	90034	\$390
ENGL	2000	587	Literary Analysis	James McVey, Ph.D.	3	90243	\$510
ENGL	2010	587	Introduction to Literary Theory	Christine MacDonald, Ph.D.	3	90242	\$510
ENGL	2021	650	Introductory Poetry Workshop	Michael Arvey, M.A.	3	90035	\$390
ENGL	3000	650	Shakespeare for Nonmajors	Rhonda Sanford, Ph.D.	3	90036	\$390
ENGL	3051	640	Intermediate Fiction Workshop	Todd Pinney, Ph.D.	3	90037	\$390
ENGL	3051	650	Intermediate Fiction Workshop	Todd Pinney, Ph.D.	3	90038	\$390
ENGL	3060	640	Modern and Contemporary Literature	Todd Pinney, Ph.D.	3	90039	\$390
ENGL	3060	650	Modern and Contemporary Literature	Todd Pinney, Ph.D.	3	90040	\$390
ENGL	3081	650	Intermediate Nonfiction Workshop: Travel Journal Writing	Todd Pinney, Ph.D.	3	90041	\$390
ENGL	3553	650	Chaucer: The Canterbury Tales	Zelda Rouillard, Ph.D.	3	90042	\$390
ENGL	3563	650	Shakespeare 1	Rhonda Sanford, Ph.D.	3	90043	\$390
ENGL	3573	650	Shakespeare 2	Rhonda Sanford, Ph.D.	3	90044	\$390
ENGL	3655	640	American Literature to 1860	Todd Pinney, Ph.D.	3	90045	\$390
ENGL	3655	650	American Literature to 1860	Todd Pinney, Ph.D.	3	90046	\$390
ENGL	3665	640	American Literature after 1860	Todd Pinney, Ph.D.	3	90047	\$390
ENGL	3665	650	American Literature after 1860	Todd Pinney, Ph.D.	3	90048	\$390
ENGL	4100	650	The English Language	Zelda Rouillard, Ph.D.	3	90049	\$390
FINE ARTS							
FINE	1012	650	Drawing 1	Patricia Cheyne, M.F.A.	3	90050	\$390
FINE	3637	650	Art for the Elementary Teacher	Patricia Cheyne, M.F.A.	3	90051	\$390
GEOGRAPHY							
GEOG	1001	650	Environmental Systems 1 - Climate and Vegetation	Dixon Smith, Ph.D.	4	90052	\$520
GEOG	1011	650	Environmental Systems 2 - Landscapes and Water	Dixon Smith, Ph.D.	4	90053	\$520
GEOG	1992	640	Human Geographies	Leigh Miller, M.A.	3	90054	\$390
GEOLOGY							
GEOL	1010	640	Introduction to Geology 1	Emily CoBabe, Ph.D.	3	90055	\$390
GEOL	1010	650	Introduction to Geology 1	Emily CoBabe, Ph.D.	3	90056	\$390
GEOL	1020	650	Introduction to Geology 2	Hilde Schwartz, Ph.D.	3	90057	\$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: Antiquity to the 16th Century	Jeanne Christensen, M.A.	3	90058	\$390
HIST	1010	650	Western Civilization 1: Antiquity to the 16th Century	Jeanne Christensen, M.A.	3	90059	\$390
HIST	1015	650	History of the United States to 1865	James Fell, Ph.D.	3	90060	\$390
HIST	1020	640	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, M.A.	3	90061	\$390
HIST	1020	650	Western Civilization 2: 16th Century to the Present	Jeanne Christensen, M.A.	3	90062	\$390
HIST	1025	650	History of the United States since 1865	James Fell, Ph.D.	3	90063	\$390
HIST	2117	640	History of Colorado	James Fell, Ph.D.	3	90064	\$390
HIST	2117	650	History of Colorado	James Fell, Ph.D.	3	90065	\$390
HIST	4217	650	The American West in the 19th Century	Anthony McGinnis, Ph.D.	3	90066	\$390
HIST	4227	650	The American West in the 20th Century	Anthony McGinnis, Ph.D.	3	90067	\$390
HIST	4733	640	The Russian Revolution and the Soviet Regime	John Hatch, Ph.D.	3	90068	\$390
JOURNALISM							
JOUR	1001	640	Contemporary Mass Media	Rebecca Self Hill, Ph.D.	3	90069	\$390
JOUR	3771	640	Mass Communication History	Cinda Gillilan Ph.D.	3	90070	\$390
KINESIOLOGY AND APPLIED PHYSIOLOGY							
KAPH	3420	640	Nutrition, Health, and Performance	Mary Beth Monroe, Ph.D.	3	90071	\$390
KAPH	3420	650	Nutrition, Health, and Performance	Frank Konishi, Ph.D.	3	90072	\$390
MATHEMATICS							
MATH	1011	650	Fundamentals and Techniques of College Algebra	Brian Clark, M.A.	3	90073	\$390
MATH	1021	650	Numerical and Analytical College Trigonometry	Kristen Marshall, Ph.D.	2	90074	\$260
MATH	1071	650	Finite Mathematics for Social Science and Business	Kristen Marshall, Ph.D.	3	90075	\$390
MATH	1081	650	Calculus for Social Science and Business	Kristen Marshall, Ph.D.	3	90076	\$390
MATH	1300	650	Analytic Geometry and Calculus 1	Brian Clark, M.A.	5	90077	\$650
MATH	2300	650	Analytic Geometry and Calculus 2	Kristen Marshall, Ph.D.	5	90078	\$650
MUSIC							
EMUS	1081	650	Basic Music Theory	Debbie Corisis, M.A.	3	90031	\$390
PHILOSOPHY							
PHIL	1000	650	Introduction to Philosophy	Barbara Morrison, Ph.D.	3	90079	\$390
PHIL	1100	650	Ethics	Barbara Morrison, Ph.D.	3	90080	\$390
PHIL	1600	650	Philosophy and Religion	Barbara Morrison, Ph.D.	3	90081	\$390
PHIL	4040	650	Studies in 20th Century Philosophy	Barbara Morrison, Ph.D.	3	90082	\$390
POLITICAL SCIENCE							
PSCI	1101	650	The American Political System	Jeffrey Ian Ross, Ph.D.	3	90083	\$390
PSCI	2223	650	Introduction to International Relations	Jeffrey Ian Ross, Ph.D.	3	90084	\$390

* SECTION LEGEND

64x = online, self-paced course

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Dept.	Course No.	Section*	Course Title	Instructor	Credit Hours	Call Number	Tuition
PSYCHOLOGY							
PSYC	1001	650	General Psychology	Tim Bockes, Ph.D.	3	90085	\$390
PSYC	2012	640	Biological Psychology 1	Howard Bashinski, Ph.D.	3	90086	\$390
PSYC	2012	650	Biological Psychology 1	Howard Bashinski, Ph.D.	3	90087	\$390
PSYC	2022	650	Biological Psychology 2	Howard Bashinski, Ph.D.	3	90088	\$390
PSYC	2303	640	Psychology of Adjustment	ShawnaLee Washam Ph.D.	3	90089	\$390
PSYC	2303	650	Psychology of Adjustment	ShawnaLee Washam Ph.D.	3	90090	\$390
PSYC	2606	640	Social Psychology	Brett King, Ph.D.	3	90091	\$390
PSYC	2606	650	Social Psychology	Brett King, Ph.D.	3	90092	\$390
PSYC	3101	640	Statistics and Research Methods in Psychology	Howard Bashinski, Ph.D.	4	90093	\$520
PSYC	3101	650	Statistics and Research Methods in Psychology	Howard Bashinski, Ph.D.	4	90094	\$520
PSYC	4303	640	Abnormal Psychology	Brett King, Ph.D.	3	90095	\$390
PSYC	4303	650	Abnormal Psychology	Brett King, Ph.D.	3	90096	\$390
PSYC	4456	640	Psychology of Personality	Tim Bockes, Ph.D.	3	90097	\$390
PSYC	4456	650	Psychology of Personality	Tim Bockes, Ph.D.	3	90098	\$390
PSYC	4511	650	History of Psychology	Wayne Viney, Ph.D.	3	90099	\$390
PSYC	4684	640	Developmental Psychology	Cheryl Sanders, Ph.D.	3	90100	\$390
PSYC	4684	650	Developmental Psychology	Cheryl Sanders, Ph.D.	3	90101	\$390
SOCIOLOGY							
SOCY	1001	640	Analyzing Society	Steve Wilson, Ph.D.	3	90102	\$390
SOCY	1001	650	Analyzing Society	Steve Wilson, Ph.D.	3	90103	\$390
SOCY	1005	650	Social Conflict and Social Values	Roxanne Rhodes, M.A.	3	90104	\$390
SOCY	1016	650	Sex, Gender and Society 1	Kristine DeWelde, M.A.	3	90106	\$390
SOCY	4014	641	Criminology	Steve Wilson, Ph.D.	3	90113	\$390
SOCY	4014	650	Criminology	Steve Wilson, Ph.D.	3	90114	\$390
SOCY	4025	640	Conflict Management in Social Systems	Guy Burgess, Ph.D.	3	90115	\$390
SOCY	4086	640	Family and Society	Staff	3	90116	\$390
SPEECH, LANGUAGE AND HEARING SCIENCES							
SLHS	4035	587	ASL Linguistic Structure	Jeffrey Davis, Ph.D.	3	90244	\$610
SLHS	5035	587	ASL Linguistic Structure	Jeffrey Davis, Ph.D.	3	90245	\$610
SLHS	5045	587	Discourse Analysis/ASL	Cynthia Roy, Ph.D.	3	90246	\$610
SLHS	5055	587	Assessing Language Skill/ASL	Suzette Garay, Ph.D.	3	90247	\$610
SLHS	5905	587	Mentorship Internship Interpretation	Elizabeth Winston, Ph.D.	3	90255	\$610
WRITING AND RHETORIC							
WRTG	3020	587	Topics In Writing	Anne Bliss, Ph.D.	3	90238	\$510
WRTG	3040	587	Writing on Business and Society	Anne Bliss, Ph.D.	3	90239	\$510
WRTG	3040	588	Writing on Business and Society	Amy Goodloe, M.A.	3	90240	\$510
WRTG	3040	589	Writing on Business and Society	Amy Goodloe, M.A.	3	90241	\$510

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.

*** SECTION LEGEND**

64x = online, self-paced course

65x = print-based correspondence course

58x = online, term-based course

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 SEMESTER HOURS

Provides a basic skills course designed to equip students to handle the English major. Emphasizes critical writing and the acquisition of basic techniques and vocabulary of literary criticism through close attention to poetic and prose language.

Section 587 Call No. 90243

Instructor: James McVey, Ph.D.

Tuition: \$510

Dates: September 3–December 12

Introduction to Literary Theory

ENGL 2010

3 SEMESTER HOURS

Introduces students to a wide range of critical theories that English majors need to know. Covers major movements in modern literary/critical theory, from Matthew Arnold through new criticism to contemporary postmodern frameworks.

Section 587 Call No. 90242

Instructor: Christine MacDonald, Ph.D.

Tuition: \$510

Dates: September 3–December 12

SPEECH, LANGUAGE AND HEARING SCIENCES

The Linguistic Structure of American Sign Language

SLHS 4035/5035

3 SEMESTER HOURS

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 587 Call No. 90244

SLHS 5035: Section 587 Call No. 90245

Instructor: Jeffrey Davis, Ph.D.

Tuition: \$610

Dates: August 26–December 12

Discourse Analysis of American Sign Language

SLHS 5045

3 SEMESTER HOURS

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. Emphasizes relevance of these topics to teaching ASL and/or interpreting. Prereq., SLHS 5035.

Section 587 Call No. 90246

Instructor: Cynthia Roy, Ph.D.

Tuition: \$610

Dates: August 26–December 12

Assessing First and Second Language Skills in American Sign Language

SLHS 5055

3 SEMESTER HOURS

Focuses on assessment of second language skills of ASL students, with some discussion of assessment of first language skills in deaf children and interpreting students. Introduces general approaches to second language testing and types of language assessment, and provides the ASL and/or interpreting teacher with practical information about assessing second language skills in the classroom. Prereq., SLHS 5035 (or similar course). Recommended prereq., SLHS 5045.

Section 587 Call No. 90247

Instructor: Suzette Garay, Ph.D.

Tuition: \$610

Dates: August 26–December 12

WRITING AND RHETORIC

Topics in Writing

WRG 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.

Section 587 Call No. 90238

Instructor: Anne Bliss, Ph.D.

Tuition: \$510

Dates: September 3–December 12

Writing on Business and Society

WRG 3040

3 SEMESTER HOURS

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

Section 587 Call No. 90239

Instructor: Anne Bliss, Ph.D.

Tuition: \$510

Dates: September 3–December 12

Section 588 Call No. 90240

Instructor: Amy Goodloe, M.A.

Tuition: \$510

Dates: September 3–December 12

Section 589 Call No. 90241

Instructor: Amy Goodloe, M.A.

Tuition: \$510

Dates: September 3–December 12

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 0157 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 2158 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.



Registration for Fall semester begins Friday, August 23 and classes begin Monday, August 26. Call 303-492-5148 for more information or visit the ACCESS web site at www.colorado.edu/conted/access.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 or enroll in Boulder Evening credit courses. Call 303-492-6226 for an application and more information or visit the High School Concurrent web site at www.colorado.edu/conted/hsconcur.htm.



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.

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 fall 2002 semester is July 15-August 9.

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.

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.

If you want to learn Japanese, and are willing to discover something new about yourself in the process, try **Minori Murata's** Japanese: Beginning Conversational and Written Skills. Because Japanese is completely different from English, American students find it challenging. "You have to change your way of seeing the road. It shocks you. But the process of learning is joyful." Plus, next time you're in Tokyo, you can ask for directions to the bus stop.



*“The process of learning
is a treasure for your life.”*

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. August 12 is the fall application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/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.



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Short Story Workshop

The Children's Book: Writing, Illustrating and Publishing

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

How to Sell What You Write to a Publisher

COMMUNICATION

To Speak or Not to Speak

NC C 010

Learn to feel more confident not only when making presentations, but in interviews and virtually any situation that requires strong communication skills. This unique approach will help you refine your own personal style, use humor and personal experiences, develop interesting and effective content, curb your fears, and actually look forward to speaking in public.

Lisa Franke Syracuse is an integrated branding consultant and presentation coach. Lisa has a bachelor's degree in theater and a masters in Integrated Marketing Communications from CU-Boulder. She is also the president of a local community theater and has been acting and directing for many years.

Section 300: Wednesdays, September 18-November 6, 6-8 p.m. Hale 236. 8 sessions. \$200.

FINE ARTS

Introduction to Drawing

NCFA 020

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

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

Section 300: Tuesdays, September 17-November 5, 7-9 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. You will add to your experimentation by including tools of color and applications such as color schemes, mood, effects on shading, and perspective. We will discuss all aspects of creating a successful composition throughout the course. Call 303-492-5148 for a supply list.

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

Section 300: Wednesdays, September 18-November 6, 7-9 p.m., Fine Arts N298.
8 sessions. \$186.

Water Media NCFA 009

This class is designed to introduce you to a variety of watercolor applications. Discussions focus on understanding color and developing the composition and techniques. You will explore watercolor as a medium to record visual information in your journal as well as in finished work. The class examines a variety of resources such as the still life, human figure, and photograph. Call 303-492-5148 for a supply list.

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

Section 300: Mondays, September 16-November 4, 7-9 p.m., Fine Arts C153.
8 sessions. \$186.

Introduction to Oil Painting NCFA 028

In this introductory course, you will gain an understanding of fundamental color theory and basic oil painting materials and methods. Studio time will include work with observing and representing light, choosing and mixing color, developing interesting compositions, and creating the illusion of space. Development will be encouraged through individualized instruction and group discussions. Call 303-492-5148 for a supply list. Please bring all materials to the first class meeting. No previous painting experience is necessary.

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

Section 300: Tuesdays, September 17-November 5, 6:30-8:30 p.m., Fine Arts N103.
8 sessions. \$186.

Introduction to Book Arts NCFA 080

Have you ever wanted to learn how to make a book? This course is designed to introduce students to the world of book arts from simple cut and fold structures created with a single sheet of paper to traditional books with hard covers. This class will cover materials (paper, board, adhesive), techniques (cutting, folding, tearing, and pasting), and a variety of book structures (cut and fold books, explosion books, tunnel books, a traditional case bound book, and a Coptic stitch photo album). No previous binding experience is necessary. Some materials will be provided. A basic materials list will be distributed at the first class meeting.

Mia Semington, M.F.A. in photography from CU-Boulder, has taught photography at the college level since 1996. She has taught book arts on campus.

Section 300: Wednesdays, September 18-November 6, 6:30-9 p.m., Fine Arts C153.
8 sessions. \$250.

Basic Sculpture NCFA 054

Designed for all levels, this class covers the fundamental principles and design elements of sculpture. You will use a variety of tools and materials for basic modeling, building and sculptural fabrication techniques. Demonstrations will include the use and application of clay, stone, plaster, metal and wood. Call 303-492-5148 for a supply list.

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

Section 300: Wednesdays, September 18-November 6, 6:30-8:30 p.m., Fine Arts C102.
8 sessions. \$186.

Sculpture: Stonecarving NCFA 011

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

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

Section 300: Mondays, September 16-November 4, 6:30-8:30 p.m., Fine Arts C103.
8 sessions. \$186.

Fearless Basic Photography NCFA 001

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

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

Section 300: Mondays, September 16-November 4, 6:30-8:30 p.m., Ketchum 120.
8 sessions. \$176.

*(Fine Arts continued)***Point and Shoot Photography**
NCFA 047

All point-and-shoot cameras are welcome! This class will open your eyes to seeing pictures before they happen and teach you how to take better photographs. We will focus on many elements of photography such as lighting, composition, lines of direction, and presentation. Digital cameras are also appropriate as long as you have a way to print out images. Each student will be responsible for shooting and developing one roll per week.

Mary Rachel Fanning is a graduate student in Fine Arts at CU-Boulder. Mary Rachel has taught beginning photography to students of all ages.

Section 300: Wednesdays, September 18–November 6, 6–8 p.m., Ketchum 120.
8 sessions. \$176.

Creative Photography Workshop
NCFA 002

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

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

Section 300: Thursdays, September 26–November 21, 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. You will 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. No class October 31. Required text available at the CU Bookstore.

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

Section 300: Thursdays, September 19–November 14 (skip October 31), 6:30–8:30 p.m., Hellems 185. 8 sessions. \$186.

French:
Beginning Conversational Skills
NCFL 100

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

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

Section 300: Tuesdays, September 17–November 19, 6:30–8:30 p.m., Hellems 181.
10 sessions. \$230.

French: Conversational Skills for
Advanced Beginners
NCFL 200

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

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

Section 300: Thursdays, September 19–November 21, 6:30–8:30 p.m., Hellems 191.
10 sessions. \$230.

German:
Beginning Conversational Skills
NCFL 101

Designed for those with little or no knowledge of German, this course covers grammar but emphasizes practical conversation for travelers. In addition students will learn cultural aspects to gain insight into German life today. No class on October 10.

Instructor: TBA

Section 300: Thursdays, September 19–November 14 (skip October 10), 6–8 p.m., McKenna 204. 8 sessions. \$186.

Italian:
Beginning Conversational Skills
NCFL 102

This course examines the basics of Italian conversational grammar as well as various aspects of modern Italian culture and the Italian way of life. You will learn the elements of the language, view videos, and hold open discussions.

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

Section 301: Mondays, September 16–November 4, 6:30–8:30 p.m., Hellems 185.
8 sessions. \$186.

Joy Ramirez, Ph.D. candidate in Comparative Literature (M.A. in Italian Literature), has lived in Florence and Perugia and has taught Italian at the University of Oregon and CU.

Section 302: Tuesdays, September 17–November 5, 6–8 p.m., Guggenheim 2.
8 sessions. \$186.

Italian: Conversational Skills
for Advanced Beginners
NCFL 202

Review basic grammar concepts introduced in Beginning Italian as well as expand on vocabulary and expressions essential for conversational fluency in Italian. The course will continue to integrate aspects of modern Italian life and culture.

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

Section 300: Wednesdays, September 18–November 6, 6:30–8:30 p.m., Hellems 211.
8 sessions. \$186.

Japanese: Beginning Conversational and Written Skills NCFL 104

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

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

Section 300: Mondays and Wednesdays, September 16–October 9, 6–8 p.m., Humanities 160. 8 sessions. \$186.

Japanese: Conversational and Written Skills for Advanced Beginners NCFL 204

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

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

Section 300: Mondays and Wednesdays, October 14–November 6, 6–8 p.m., Humanities 370. 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. No class on October 10. Required text, *Avenida Brasil 1*, available at the CU Bookstore.

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

Section 300: Thursdays, September 19–November 14 (skip October 10), 6:30–8:30 p.m., Hellems 181. 8 sessions. \$186.

Spanish: Beginning Conversational Skills NCFL 103

Basic but lively conversational Spanish for travelers. We stress practical vocabulary.

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

Section 301: Mondays and Wednesdays, September 16–October 9, 6:30–8:30 p.m., Hellems 193. 8 sessions. \$186.

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

Section 302: Tuesdays, September 17–November 5, 7–9 p.m., Hellems 251. 8 sessions. \$186.

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

Section 303: Wednesdays, September 18–November 6, 6:30–8:30 p.m., Economics 13. 8 sessions. \$186.

Spanish: Conversational Skills for Advanced Beginners NCFL 203

Build vocabulary, learn the past tense, and review grammar to develop accuracy and proficiency in the use of the language. Prerequisite: Beginning Spanish or equivalent.

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

Section 301: Tuesdays, September 17–November 5, 6:30–8:30 p.m., Hellems 191. 8 sessions. \$186.

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

Section 302: Mondays and Wednesdays, October 14–November 6, 6:30–8:30 p.m., Hellems 193. 8 sessions. \$186.



Continuing Education classes inspire confidence. Just ask Jane Harrington, a student in the Intermediate Oil Painting class taught by Christina Craigo. "I love this class. What's wonderful about it is now I feel like I have enough skill to paint on my own." Pointing out how difficult it is to find people who teach oil painting, Jane said she enjoyed the class so much, she's planning to take it again the next time it's offered.

Spanish: Intermediate Conversational Skills NCFL 303

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

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

Section 300: Thursdays, September 19–November 7, 7–9 p.m., Hellems 251. 8 sessions. \$186.

*(Foreign Languages continued)***Travels in Spanish: Spain**

NCFL 503

If you are thinking about travelling to Spain, this class is for you. You will improve your Spanish by learning travel specific vocabulary and practicing dialogue applicable to your travels. Presentations by Spaniards from different parts of the country will enhance your appreciation and understanding of the regional differences of Spain and help you to focus your travels. Socio-cultural differences between the United States and Spain will also be included.

Veronica Loureiro-Rodriguez is a native of Spain and earned her masters degree in Hispanic Linguistics at CU-Boulder. She teaches for CU-Boulder and Metropolitan State College of Denver.

Section 300: Thursdays, September 19-
November 7, 6:30-8:30 p.m., Hellems 237.
8 sessions. \$186.

LIFESTYLES**Managing Stress
in a Changing World**

NC L 009

In the ever-changing world we live in, stress and change are now considered one and the same. Experts agree that change is only going to increase, so how are your coping skills? This course is designed to expose you to a sound holistic (mind-body-spirit) approach to stress management. Topics include: the nature of stress, physiology of stress, stress and disease, the stress emotions, and stress and human spirituality. You will be introduced to excellent coping skills and relaxation techniques to not only reduce and alleviate the physical symptoms of stress, but learn to thrive in changing times and restore a sense of inner peace.

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

Section 300: Tuesdays, September 17-
October 22, 7-9 p.m., Economics 2.
6 sessions. \$132.

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 also satisfies 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 300: Tuesdays and Thursdays,
October 15-November 21, 6:30-8 p.m.,
Hale 260. 12 sessions. \$180.

THEATRE**Monologue Workshop**

NCTH 029

In this 2-day workshop, you will fully rehearse a 2-4 minute monologue for auditioning. We will build your performance upon a foundation of understanding of what you as your character are trying to express, to whom and why. Artistic choices that emerge from the inspiration inherent in the script will give your performance both psychological depth and emotional truth. We will benefit from witnessing each other's rehearsal process and glean many useful tools from the shared experience. You are invited to choose your own monologue, or choose from several made available by the instructor before class or at the first class session. Please do not use a monologue you have used before and do not memorize the monologue before the first class.

Beth Osnes, Ph.D. in Theatre from CU-Boulder, teaches theatre for Continuing Education and the CU Honors Department. She recently published a book on theater throughout the world entitled "Acting: An International Encyclopedia". Her one-woman show, "The Mother Load", will be performed at the Boulder Museum of Contemporary Art in October of 2002.

Section 300: Thursday, September 12, 6-9 p.m.
and Saturday, September 21, 9:30 a.m.-2 p.m.,
Economics 2. 2 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, M.A. in English Literature and M.F.A. in Creative Writing, is a professional writer with over 300 publications in regional and national publications.

Section 300: Wednesdays, September 25-
November 13, 7-9 p.m., Ketchum 303.
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. No class on October 10.

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

Section 300: Thursdays, September 26-
November 21 (skip October 10), 7-9 p.m.,
Economics 13. 8 sessions. \$176.

Advanced Nonfiction Workshop: The Western Essay

NC W 079

This course focuses on the western essay as developed by such authors as Edward Abbey, Terry Tempest Williams, William Kittredge and others. Within this context, elements of nature writing, personal essay and memoir will be covered along with the themes of place, landscape, natural history, and personal experience. This course is an opportunity for noncredit students to participate in an academic credit course without the worry of receiving a grade.

James McVey, Ph.D. in English Literature from CU-Boulder, teaches literature classes at CU. His research focuses on the American West and the tradition of nature writing.

Section 300: Tuesdays, September 3-December 3, 6-9 p.m., Hellems 259.
14 sessions. \$405.

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 Ph.D. in American Literature from Texas Tech University where her interests centered on contemporary American fiction and, in particular, the "road narrative".

Section 300: Mondays, September 16-November 4, 6:30-8:30 p.m., Ketchum 119.
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, M.F.A., from the Iowa Writers' Workshops, has recently published a collection of short stories, A Night at the Y.

Section 300: Tuesdays, September 17-October 29, 6:30-8:30 p.m., Economics 16.
7 sessions. \$154.

The Children's Book: Writing, Illustrating, and Publishing

NC W 012

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

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

Section 300: Saturday, November 16, 9 a.m.-4 p.m., Continuing Education Center, Room 140. 1 session. \$100.

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

NC W 005

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

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

Section 300: Mondays, October 14-November 18, 6:30-8:30 p.m., Hale 260.
6 sessions. \$132.

How to Sell What You Write to a Publisher

NC W 090

You have a great idea for a book, or maybe you're already writing a book but you're not sure how to market it. 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 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. Her books have been featured on TV and radio and in magazines and newspapers around the country.

Section 100: Saturday, August 17, 9 a.m.-4 p.m., Continuing Education Center, Room 140.
1 session. \$100.

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

What does programmer and teacher
Carol Meier love about computers?

“I have a high-paying addiction.

I love the immediate feedback you get from programming.” She brings this same enthusiasm to her Java classes, where she shares her knowledge and experience, and gets similar gratifying feedback from her students – what she calls the “aha” moment when they understand a new concept.



“It’s important to know the practical aspects of a program, but it can be fun too.”

Carol Meier programmed this Lego robot using Java.

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

Our program can help you:

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

GENERAL COURSE INFORMATION

Prerequisites

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

Grading Policy

All computer applications courses are noncredit and do not apply toward any degree programs. There are two levels of grading depending on your education goals. The first level is the full assessment level, which is mandatory for anyone seeking to complete one of the computer certificate programs. We also recommend this level to all students wanting to get the most out of their computer applications course. Students in the first level receive a satisfactory (S) or unsatisfactory (U) mark. Attendance, quizzes, and/or homework assignments determine a satisfactory or unsatisfactory assessment. The second level of grading is for students not wanting to be assessed at all. These students must request to receive a no credit (NC) mark.

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

Textbooks

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

OTHER MISCELLANEOUS INFORMATION

Enrollment Limits

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

Classroom Locations

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

- University Computing Center (UCC) on 3645 Marine (at the corner of Arapahoe and Marine)
- University Management Systems (UMS) building on 4780 Pearl East Circle (east of Foothills Parkway on Pearl)
- Division of Continuing Education (CEDU) on 1505 University Ave.
- 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. The chancellor closes the campus only in extreme 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. August 12 is the application deadline. Scholarship awards range up to \$365. Applications are available at Continuing Education or can be found on the Web at www.colorado.edu/conted/scholar.htm.

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 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.



CERTIFICATE PROGRAMS

We offer certificate programs in Network Administration, Web Site Design, Web Graphics 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 solid 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. **Approval must be obtained for the substitution. You may substitute one or two courses.** For a substitution request, complete a form online at www.colorado.edu/conted/cpsub.htm or 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
- CAWB 2411 Web Site Design with FrontPage
- 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



CERTIFICATE IN NETWORK ADMINISTRATION

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 pass the test, you may begin with Option 2.**

A. Required 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 page 49 for course listings)

C. Database Course (choose one)

- CAAP 2421 Access 2000 Level I
- CAAP 3421 Access 2000 Level II
- 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. Required Core Courses

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

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

B. Other Required Core Course

CAWB 3101 Design Techniques for Web Sites

C. Required Multimedia Elective (choose one)

- CAGR 3321 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. Required Graphics Elective (choose one)

- CAGR 2111/2121 Introduction to Photoshop
- CAGR 3111/3121 Photoshop for the Web
- CAGR 2211/2221 Illustrator Level I
- CAGR 3211/3221 Illustrator Level II

E. Web Course Elective (choose one)

- CAWB 5311 Hypertext Mark-up Language Version 4
- CAWB 2411 Web Site Design with FrontPage
- 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. Required Capstone Course

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

CAWB 9001 Web Site Design Project

CERTIFICATE IN PROGRAMMING

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

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. Required 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 3101 Introduction to Programming III
- 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)

Course Guide

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
Computer Applications...Course descriptions begin on page 40					
Windows 2000	CAAP 2131-300	09/03/02	09/10/02	9 a.m.-2:30 p.m.	2
Windows XP	CAAP 2141-300	09/18/02	09/25/02	9 a.m.-2:30 p.m.	2
Excel 2000 Level I	CAAP 2321-300	09/19/02	09/19/02	9 a.m.-4 p.m.	1
Excel 2000 Level II	CAAP 3321-300	09/26/02	09/26/02	9 a.m.-4 p.m.	1
Excel 2002 Level I	CAAP 2331-300	10/03/02	10/03/02	9 a.m.-4 p.m.	1
Access 2000 Level I	CAAP 2421-301	09/05/02	09/12/02	9 a.m.-4 p.m.	2
Access 2000 Level I	CAAP 2421-302	09/30/02	10/07/02	9 a.m.-4 p.m.	2
Access 2000 Level II	CAAP 3421-300	10/01/02	10/01/02	9 a.m.-4 p.m.	1
Access 2002 Level I	CAAP 2431-300	10/09/02	10/16/02	9 a.m.-4 p.m.	2
Database Design Concepts	CAAP 4501-300	10/07/02	10/14/02	9 a.m.-4 p.m.	2
Relational Database Concepts and SQL Programming	CAAP 4502-301	09/18/02	10/23/02	6-9 p.m.	6
Relational Database Concepts and SQL Programming	CAAP 4502-302	10/29/02	12/10/02	6-9 p.m.	6
Networking...Course descriptions begin on page 41					
Introduction to Networks	CANW 1001-300	09/04/02	09/25/02	6-9 p.m.	4
Computer Systems Overview and Architecture	CANW 3103-300	09/17/02	09/26/02	6-9 p.m.	4
Operating Systems	CANW 4102-300	10/07/02	10/24/02	6-9 p.m.	6
Network Administration	CANW 5101-300	10/28/02	11/18/02	6-9 p.m.	4
Local and Wide Area Networking Topics	CANW 5402-300	09/04/02	09/25/02	6-9 p.m.	4
Introduction to Windows 2000 Administration	CANW 2211-300	11/13/02	12/11/02	6-9 p.m.	4
Intermediate Windows 2000 Administration	CANW 3211-300	10/02/02	10/30/02	6-9 p.m.	5
UNIX Survival Skills	CANW 1301-300	10/21/02	11/18/02	6-9 p.m.	5
Introduction to UNIX	CANW 2301-300	09/17/02	10/08/02	6-9 p.m.	7
Intermediate UNIX	CANW 3301-300	10/15/02	11/12/02	6-9 p.m.	5
Security Essentials and Network Design	CANW 4401-300	11/21/02	12/12/02	9 a.m.-4 p.m.	3
Unix System Administration	CANW 5301-300	11/21/02	12/12/02	6-9 p.m.	5
Web.....Course descriptions begin on page 43					
Internet Fundamentals	CAWB 1001-300	09/03/02	09/10/02	6-9 p.m.	2
Internet Applications	CAWB 2101-301	09/04/02	09/18/02	6-9 p.m.	3
Internet Applications	CAWB 2101-302	09/26/02	10/10/02	6-9 p.m.	3
Design Techniques for Web Sites	CAWB 3101-301	09/17/02	09/24/02	6-9 p.m.	2
Design Techniques for Web Sites	CAWB 3101-302	10/17/02	10/24/02	6-9 p.m.	2
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-301	09/09/02	09/30/02	6-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-302	10/09/02	10/30/02	6-9 p.m.	4
Introduction to Hypertext Mark-up Language (HTML)	CAWB 2301-303	10/29/02	11/19/02	6-9 p.m.	4
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-301	10/07/02	10/21/02	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-302	11/06/02	11/20/02	6-9 p.m.	3
Intermediate Hypertext Mark-up Language (HTML)	CAWB 3301-303	12/02/02	12/09/02	6-9 p.m.	3
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-301	09/05/02	09/26/02	6-9 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-302	10/28/02	11/18/02	6-9 p.m.	4
Advanced Hypertext Mark-up Language (HTML)	CAWB 4301-303	12/02/02	12/12/02	6-9 p.m.	4
Hypertext Mark-up Language (HTML) Version 4	CAWB 5311-300	11/07/02	11/14/02	6-9 p.m.	2
Introduction to JavaScript	CAWB 2701-301	09/03/02	09/24/02	6-9 p.m.	4
Introduction to JavaScript	CAWB 2701-302	10/01/02	10/22/02	6-9 p.m.	4
Introduction to JavaScript	CAWB 2701-303	11/23/02	12/14/02	9 a.m.-1 p.m.	3
Intermediate JavaScript	CAWB 3702-301	09/09/02	09/30/02	6-9 p.m.	4
Intermediate JavaScript	CAWB 3702-302	11/04/02	11/14/02	6-9 p.m.	4
Advanced JavaScript	CAWB 4701-301	10/15/02	11/01/02	6-9 p.m.	4
Advanced JavaScript	CAWB 4701-302	12/02/02	12/12/02	6-9 p.m.	4
Web Site Design with FrontPage 2002	CAWB 2411-300	11/07/02	12/05/02	9 a.m.-12 p.m.	4
Introduction to Motion Graphics Using Flash 5	CAWB 2511-301	09/09/02	09/30/02	6-9 p.m.	4
Introduction to Motion Graphics Using Flash 5	CAWB 2511-302	10/03/02	10/24/02	6-9 p.m.	4
Intermediate Motion Graphics Using Flash 5	CAWB 3512-300	10/30/02	12/04/02	6-9 p.m.	5

Course Title	Course No./ Section	Start Date	End Date	Time	Total Sessions
<i>Web (continued)</i>					
Dreamweaver 4	CAWB 2611-301	09/07/02	09/28/02	9 a.m.-12 p.m.	4
Dreamweaver 4	CAWB 2611-302	10/07/02	10/28/02	6-9 p.m.	4
ColdFusion 5	CAWB 2811-301	09/03/02	10/08/02	6-9 p.m.	6
ColdFusion 5	CAWB 2811-302	10/05/02	10/19/02	9 a.m.-4 p.m.	3
Web Site Design Project	CAWB 9001-300	11/09/02	12/14/02	9 a.m.-12 p.m.	5
Graphics...Course descriptions begin on page 46					
Computer Art	CAGR 1011-300	09/30/02	09/30/02	9 a.m.-4 p.m.	1
Computer Art	CAGR 1021-300	09/04/02	09/11/02	6-9 p.m.	2
Introduction to Graphic Design	CAGR 1121-300	09/14/02	09/14/02	9 a.m.-5 p.m.	1
Introduction to Photoshop 6.0	CAGR 2111-301	09/04/02	09/11/02	9 a.m.-4 p.m.	2
Introduction to Photoshop 6.0	CAGR 2111-302	09/21/02	09/28/02	9 a.m.-4 p.m.	2
Introduction to Photoshop 6.0	CAGR 2121-301	10/07/02	10/28/02	6-9 p.m.	4
Introduction to Photoshop 6.0	CAGR 2121-302	10/30/02	11/20/02	6-9 p.m.	4
Photoshop 6.0 for the Web	CAGR 3111-301	09/18/02	09/25/02	9 a.m.-4 p.m.	2
Photoshop 6.0 for the Web	CAGR 3111-302	10/21/02	10/28/02	9 a.m.-4 p.m.	2
Photoshop 6.0 for the Web	CAGR 3121-300	11/12/02	12/10/02	6-9 p.m.	4
Macromedia Fireworks	CAGR 3511-300	09/09/02	09/30/02	6-9 p.m.	4
Illustrator 9.0 Level I	CAGR 2211-300	09/17/02	09/24/02	9 a.m.-4 p.m.	2
Illustrator 9.0 Level I	CAGR 2221-300	10/05/02	10/12/02	9 a.m.-4 p.m.	2
Illustrator 9.0 Level II	CAGR 3221-300	10/19/02	10/26/02	9 a.m.-4 p.m.	2
Macromedia Director 8 Shockwave Studio	CAGR 3321-300	09/19/02	10/10/02	6-9 p.m.	4
Multimedia Solutions	CAGR 3421-300	10/15/02	11/05/02	6-9 p.m.	4
Web Graphics Project	CAGR 9001-300	11/05/02	12/10/02	6-9 p.m.	5
Programming...Course descriptions begin on page 49					
Introduction to Programming I	CAPR 1001-301	09/14/02	10/12/02	9 a.m.-4 p.m.	6
Introduction to Programming I	CAPR 1001-302	09/17/02	10/11/02	9 a.m.-4 p.m.	4
Introduction to Programming II	CAPR 2101-301	10/26/02	11/18/02	9 a.m.-4 p.m.	5
Introduction to Programming II	CAPR 2101-302	10/24/02	11/19/02	9 a.m.-4 p.m.	4
Introduction to Programming III	CAPR 3101-300	11/23/02	12/14/02	9 a.m.-4 p.m.	3
Introduction to Application Programming	CAPR 2201-300	09/05/02	10/24/02	6-9 p.m.	8
Intermediate Application Programming	CAPR 3201-300	10/30/02	12/11/02	6-9 p.m.	6
Algorithm Design	CAPR 3202-300	09/18/02	11/06/02	6-9 p.m.	8
Introduction to Object-Oriented Programming in C++	CAPR 2102-300	09/04/02	10/09/02	6-9 p.m.	6
Intermediate/Advanced C++ Programming	CAPR 4101-300	10/15/02	12/10/02	6-9 p.m.	8
Introduction to Object-Oriented Programming Using Java	CAPR 2601-300	09/03/02	10/15/02	6-9 p.m.	7
Java for O-O Experienced Programmers	CAPR 3601-300	10/21/02	12/02/02	6-9 p.m.	7
Advanced Java Programming Language Topics	CAPR 4604-300	09/04/02	10/16/02	6-9 p.m.	7
GUI Programming in Java	CAPR 5601-300	09/09/02	10/21/02	6-9 p.m.	7
Developing Web Applications in Java	CAPR 5602-300	09/10/02	10/22/02	6-9 p.m.	7
Java Servlets	CAPR 5603-300	11/02/02	11/02/02	9 a.m.-4 p.m.	1
Java Internationalization	CAPR 5605-300	12/14/02	12/14/02	9 a.m.-5 p.m.	1
Java Best Practices and Performance Tuning	CAPR 5606-300	11/07/02	12/05/02	6-9 p.m.	4
Object-Oriented Design Patterns	CAPR 5401-300	10/26/02	10/26/02	9 a.m.-4 p.m.	1
Object-Oriented Analysis and Design	CAPR 5402-300	12/06/02	12/07/02	9 a.m.-5 p.m.	2
Introduction to Hands-On Visual Basic Programming	CAPR 2301-300	09/25/02	10/23/02	6-9 p.m.	5
Intermediate Hands-On Visual Basic Programming	CAPR 3301-300	11/02/02	11/16/02	9 a.m.-4 p.m.	3
Visual Basic .NET Programming Concepts	CAPR 4301-300	11/23/02	12/14/02	9 a.m.-4 p.m.	3
Introduction to Software Project Management	CAPR 5501-300	10/03/02	10/24/02	6-9 p.m.	4
Introduction to PERL for Programmers	CAPR 2701-300	11/07/02	12/12/02	6-9 p.m.	5
Extensible Markup Language (XML)	CAPR 3701-300	09/05/02	09/26/02	6-9 p.m.	4
Technical Tour of .NET and C#	CAPR 3703-300	10/29/02	11/05/02	6-9 p.m.	2
Web Services and Simple Object Access Protocol (SOAP)	CAPR 3704-300	10/05/02	10/05/02	9 a.m.-5 p.m.	1



Trevor Peterson tests computer software but wants to learn to write programs. So for him, Jim Elliott's C++ class is a perfect opportunity to acquire some new skills. "I use what I learn in class at my job. It helped me out a lot." Trevor also thought this Continuing Ed class was a great value for the price, and the Boulder location was quite convenient.

COMPUTER 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 300: Tuesdays, September 3 and 10, 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, B.S.

Section 300: Wednesdays, September 18 and 25, 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.**

Jeff Schatz, B.S.

Section 300: Thursday, September 19, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$215.

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, B.S.

Section 300: Thursday, September 26, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$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, B.S.

Section 300: Thursday, October 3, 9 a.m.-4 p.m. 1 session. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$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, B.S.

Section 301: Thursdays, September 5 and 12, 9 a.m.-4 p.m.

Issy Kilbride

Section 302: Mondays, September 30 and October 7, 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. Students 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, B.S.

Section 300: Tuesday, October 1, 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, B.S.

Section 300: Wednesdays, October 9 and 16, 9 a.m.-4 p.m. 2 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$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, B.S.

Section 300: Mondays, October 7 and 14, 9 a.m.-4 p.m. 2 sessions. University Management Systems 001. \$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, B.S.

Section 301: Wednesdays, September 18-October 23, 6-9 p.m.

Andy Marangakis, M.S.

Section 302: Tuesdays, October 29-December 10 (skip November 26), 6-9 p.m.

All Sections: 6 sessions. University Management Systems 001. \$425.

NETWORKING

Introduction to Networks CANW 1001

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

Nate Ahrens, B.A.

Section 300: Wednesdays, September 4-25, 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). \$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, M.S.

Section 300: Tuesdays and Thursdays, September 17-26, 6-9 p.m. 4 sessions. University Computing Center 123. \$300.



(Networking continued)

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, B.S.

Section 300: Mondays and Thursdays, October 7-24, 6-9 p.m. 6 sessions. University Computing Center 127. \$450.

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.

Sbayn Smith, Ph.D., CNE

Section 300: Mondays, October 28-November 18, 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, M.B.A.

Section 300: Wednesdays, September 4-25, 6-9 p.m. 4 sessions. University Computing Center 123. \$336.

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, M.A.

Section 300: Wednesdays, November 13-December 11 (skip November 27), 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, M.A.

Section 300: Wednesdays, October 2-30, 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 Lupo, Ph.D.

Section 300: Mondays, October 21-November 18, 6-9 p.m. 5 sessions. University Management Systems 001. \$420.



Introduction to UNIX CANW 2301

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

Craig McBride, M.B.A.

Section 300: Tuesdays and Thursdays, September 17-October 8, 6-9 p.m. 7 sessions. University Computing Center 127. \$525.

Intermediate UNIX CANW 3301

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

Craig McBride, M.B.A.

Section 300: Tuesdays, October 15-November 12, 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, B.S.

Section 300: Thursdays, November 21-December 12 (skip November 28), 9 a.m.-4 p.m. 3 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$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, Ph.D.

Section 300: Mondays and Thursdays, November 21-December 12 (skip November 25 and 28), 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.

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 Revelle, B.A.

Section 300: Tuesdays, September 3 and 10, 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, M.A.

Section 301: Wednesdays, September 4-18, 6-9 p.m.

Nate Abrens, B.A.

Section 302: Thursdays, September 26-October 10, 6-9 p.m.

All Sections: 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, M.A.

Section 301: Tuesdays, September 17 and 24, 6-9 p.m.

Beth Sigren, B.S.

Section 302: Thursdays, October 17 and 24, 6-9 p.m.

All Sections: 2 sessions. Humanities 1B45. \$215.

(Web continued)

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

Learn how to create web sites from the ground up! Topics include formatting tags, lists, links, images and tables. We will also cover meta tags, coding techniques and 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.

Susan Walanski, B.A.

Section 301: Mondays, September 9-30, 6-9 p.m.

Beth Sigren, B.S.

Section 302: Wednesdays, October 9-30, 6-9 p.m.

Ginny Figlar, M.A.

Section 303: Tuesdays, October 29-November 19, 6-9 p.m.

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

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.

Karis Vail Schmidt, B.A.

Section 301: Mondays, October 7-21, 6-9 p.m.

Beth Sigren, B.S.

Section 302: Wednesdays, November 6-20, 6-9 p.m.

Bruce Muller, M.A.

Section 303: Mondays and Wednesday, December 2-9, 6-9 p.m.

All Sections: 3 sessions. Humanities 1B45. \$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, B.A.

Section 301: Thursdays, September 5-26, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Karis Vail Schmidt, B.A.

Section 302: Mondays, October 28-November 18, 6-9 p.m. Humanities 1B45.

Beth Sigren, B.S.

Section 303: Mondays and Thursdays, December 2-12, 6-9 p.m. University Management Systems 001.

All Sections: 4 sessions. \$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, B.S.

Section 300: Thursdays, November 7 and 14, 6-9 p.m. 2 sessions. University Management Systems 001. \$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, B.A.

Section 301: Tuesdays, September 3-24, 6-9 p.m. 4 sessions. University Management Systems 001.

Section 302: Tuesdays, October 1-22, 6-9 p.m. 4 sessions. Humanities 1B45.

Jeff Braunstein, M.S.

Section 303: Saturdays, November 23-December 14 (skip November 30), 9 a.m.-1 p.m. 3 sessions. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: \$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.

Jeff Braunstein, M.S.

Section 301: Mondays, September 9-30, 6-9 p.m. University Management Systems 001.

Susan Walanski, B.A.

Section 302: Mondays and Thursdays, November 4-14, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: 4 sessions. \$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, M.S.

Section 301: Tuesdays and Friday, October 15-November 1, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

Susan Walanski, B.A.

Section 302: Mondays and Thursdays, December 2-12, 6-9 p.m. University Computing Center 127.

All Sections: 4 sessions. \$336.

Web Site Design with FrontPage 2002

CAWB 2411

Learn to develop a web presence with Microsoft's popular web authoring and management tool. Over the course of the class, students will create a working web site complete with formatted text, images, links and an interactive form. We will explore the many wizards that FrontPage offers as well as cover in depth the powerful management tools available for easily maintaining and managing your site.

Prerequisites: Proficiency with PCs and the Windows operating system and CAWB 1001 **Internet Fundamentals** or equivalent.

Karis Vail Schmidt, B.A.

Section 300: Thursdays, November 7-December 5 (skip November 28), 9 a.m.-12 p.m. 4 sessions. University Management Systems 001. \$336.



When a Continuing Education course is directly relevant to your job – or a job you want – it's difficult to pass up! That's what Kim Gibbs discovered in Jim Elliott's Intermediate/Advanced C++ course.

"As a programmer, I have to keep my skills updated. The teacher even told us questions we might be asked during job interviews.

You can't get that from a book."

Introduction to Motion Graphics Using Flash 5

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 5 Hands-On Training*, Weil and Green.

William Busch

Section 301: Mondays, September 9-30, 6-9 p.m. University Computing Center 127.

Brandon Berman, M.A.

Section 302: Thursdays, October 3-24, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: 4 sessions. \$336.

(Web continued)

Intermediate Motion Graphics Using Flash 5 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 5** or equivalent. **Required text:** *Flash 5 Hands-On Training*, Weil and Green.

Brandon Berman, M.A.

Section 300: Wednesdays, October 30-December 4 (skip November 27), 6-9 p.m. 5 sessions. University Computing Center 127. \$390.

Dreamweaver 4 CAWB 2611

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

Tim Meehan

Section 301: Saturdays, September 7-28, 9 a.m.-12 p.m. University Computing Center 127.

Jeff Braunstein, M.S.

Section 302: Mondays, October 7-28, 6-9 p.m. Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date).

All Sections: 4 sessions. \$336.

ColdFusion 5 CAWB 2811

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

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

Section 301: Tuesdays, September 3-October 8, 6-9 p.m. 6 sessions.

Section 302: Saturdays, October 5-19, 9 a.m.-4 p.m. 3 sessions.

All Sections: Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$475.

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, B.S.

Section 300: Saturdays, November 9-December 14 (skip November 30), 9 a.m.-12 p.m. 5 sessions. Humanities 1B45. \$375.

GRAPHICS

Computer Art CAGR 1011

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

Jerry Reynolds, M.S.E.E.

Section 300: Monday, September 30, 9 a.m.-4 p.m. 1 session. University Management Systems 001. \$196.

Computer Art CAGR 1021

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

Barry Ratliff, M.F.A.

Section 300: Wednesdays, September 4 and 11, 6-9 p.m. 2 sessions. Humanities 1B35. \$196.

Introduction to Graphic Design CAGR 1121

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

Rick Hoyt, B.S.

Section 300: Saturday, September 14, 9 a.m.-5 p.m. 1 session. Humanities 1B35. \$224.

Introduction to Photoshop 6.0 CAGR 2111

Photoshop is a powerful image editing program that has become the industry standard for professional users in the graphics and web development markets. In this 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, M.S.E.E.

Section 301: Wednesdays, September 4 and 11, 9 a.m.-4 p.m.

Brandon Berman, M.A.

Section 302: Saturdays, September 21 and 28, 9 a.m.-4 p.m.

All Sections: 2 sessions. University Management Systems 001. \$336.

Introduction to Photoshop 6.0 CAGR 2121

Photoshop is a powerful image editing program that has become the industry standard for professional users in the graphics and web development markets. In this 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 301: Mondays, October 7-28, 6-9 p.m.

Gary Franz, B.F.A.

Section 302: Wednesdays, October 30-November 20, 6-9 p.m.

All Sections: 4 sessions. Humanities 1B35. \$336.

Photoshop 6.0 for the Web CAGR 3111

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. **Prerequisite:** CAGR 2111/2121 **Introduction to Photoshop** or equivalent. **Required text:** *Photoshop 6 ImageReady 3 Hands-On Training*, Weinman.

Jerry Reynolds, M.S.E.E.

Section 301: Wednesdays, September 18 and 25, 9 a.m.-4 p.m.

Section 302: Mondays, October 21 and 28, 9 a.m.-4 p.m.

All Sections: 2 sessions. University Management Systems 001. \$336.

Photoshop 6.0 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 6 ImageReady 3 Hands-On Training*, Weinman.

Tim Meehan

Section 300: Tuesdays, November 12-December 10 (skip November 26), 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, M.A.

Section 300: Mondays, September 9-30, 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.

Illustrator 9.0 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, M.S.E.E.

Section 300: Tuesdays, September 17 and 24, 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.

(Graphics continued)

Many Continuing Education students find out about courses from coworkers. That's what happened to Steve Carson, a software engineer in Jim Elliott's Intermediate/Advanced C++ class. By taking a class, he's certain to cover all the important aspects of C++, not to mention time-saving shortcuts. "If you buy a book and try to learn this, you take your chances."

Illustrator 9.0 Level I CAGR 2221

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. This course is taught in a Macintosh lab; however, the applications are consistent on both the PC and Macintosh platforms. **Prerequisite:** CAGR 1011/1021 **Computer Art** or equivalent.

Rick Hoyt, B.S.

Section 300: Saturdays, October 5 and 12, 9 a.m.-4 p.m. 2 sessions. Humanities 1B35. \$350.

Illustrator 9.0 Level II CAGR 3221

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

Rick Hoyt, B.S.

Section 300: Saturdays, October 19 and 26, 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 300: Thursdays, September 19-October 10, 6-9 p.m. 4 sessions. Humanities 1B35. \$336.

Multimedia Solutions CAGR 3421

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

William Busch

Section 300: Tuesdays, October 15-November 5, 6-9 p.m. 4 sessions. Humanities 1B35. \$300.


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, M.A.

Section 300: Tuesdays, November 5-December 10 (skip November 26), 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). \$375.

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. **Prerequisite: 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.**

Cherry Stover, M.S.

Section 301: Saturdays, September 14 and 28, 9 a.m.-4 p.m.; Mondays, September 16 and 30, 6-9 p.m.; Thursday, October 10, 6-9 p.m.; Saturday, October 12, 9 a.m.-12 p.m. 6 sessions.

Section 302: Tuesdays, September 17 and October 1; Wednesday, October 9; Friday, October 11; 9 a.m.-4 p.m. 4 sessions.

All Sections: University Computing Center 123. \$525.

Introduction to Programming II
CAPR 2101

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

Cherry Stover, M.S.

Section 301: Saturdays, October 26, November 9 and 16, 9 a.m.-4 p.m.; Wednesday, November 6, 6-9 p.m.; Monday, November 18, 6-9 p.m. 5 sessions.

Section 302: Thursdays, October 24 and November 7; Tuesdays, November 5 and 19; 9 a.m.-4 p.m. 4 sessions.

All Sections: Continuing Education Center (CEDU), Room 1B40 (if you require ADA accommodation, you must contact Continuing Education at least two weeks prior to the start date). \$525.

Introduction to Programming III
CAPR 3101

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

Susan Ramirez, B.S.

Section 300: Saturdays, November 23-December 14 (skip November 30), 9 a.m.-4 p.m. 3 sessions. University Management Systems 001. \$525.

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++*, 3rd Edition, Savitch.**

Steve Kaminski, M.S.E.E.

Section 300: Thursdays, September 5-October 24, 6-9 p.m. 8 sessions. University Management Systems 001. \$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, M.S.E.E.

Section 300: Wednesdays, October 30-December 11 (skip November 27), 6-9 p.m. 6 sessions. University Management Systems 001. \$475.




*(Programming continued)***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, M.S.

Section 300: Wednesdays, September 18-
November 6, 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, B.S.


Section 300: Wednesdays, September 4-
October 9, 6-9 p.m. 6 sessions.
Humanities 180. \$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, M.S.

Section 300: Tuesdays, October 15-
December 10 (skip November 26), 6-9 p.m.
8 sessions. Humanities 270. \$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 3101 **Computer 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, M.S.

Section 300: Tuesdays, September 3-
October 15, 6-9 p.m. 7 sessions.
Chemistry 145. \$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.

George Watson

Section 300: Mondays, October 21-
December 2, 6-9 p.m. 7 sessions.
Humanities 1B90. \$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.

Brian Decamp, B.S.

Section 300: Wednesdays, September 4-October 16, 6-9 p.m. 7 sessions.
Humanities 125. \$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, M.S.

Section 300: Mondays, September 9-October 21, 6-9 p.m. 7 sessions.
Humanities 180. \$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, M.S., and Greg Halling, B.S.

Section 300: Tuesdays, September 10-October 22, 6-9 p.m. 7 sessions.
Humanities 245. \$525.

Java Servlets

CAPR 5603

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

Greg Halling, B.S.

Section 300: Saturday, November 2, 9 a.m.-4 p.m. 1 session. University Computing Center 123. \$210.

Java Internationalization

CAPR 5605

The Java language has a number of capabilities built in that support internationalization and localization of Java-based applications. These tools include everything from message formatting to GUI glyphs and writing direction. This one-day lecture course will provide you with an overview of the Java internationalization and localization tools. At the end of the course, you should be able to decide whether and how to internationalize your applications. **Prerequisite:** CAPR 3601 Java for Object-Oriented Experienced Programmers or equivalent. Some knowledge of HTML and Java GUI development is helpful but not required. **Recommended text:** *Java Internationalization*, Andrew Deitsch and David Czarnecki (O'Reilly, 2001).

Greg Halling, B.S.

Section 300: Saturday, December 14, 9 a.m.-5 p.m. 1 session. University Computing Center 123. \$240.

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 course will demonstrate proven techniques for writing better and faster Java code. **Prerequisite:** CAPR 3601 Java for Object-Oriented Experienced Programmers or equivalent.

David Rodenbaugh, B.A., and Greg Halling, B.S.

Section 300: Thursdays, November 7-December 5 (skip November 28), 6-9 p.m. 4 sessions. Humanities 135. \$360.



(Programming continued)

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.

Richard Wolniewicz, Ph.D.

Section 300: Saturday, October 26, 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.

Paul Jensen, M.S.

Section 300: Friday and Saturday, December 6 and 7, 9 a.m.-5 p.m. 2 sessions. University Computing Center 123. \$495.

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, B.S.

Section 300: Wednesdays, September 25-October 23, 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, M.S.E.E.

Section 300: Saturdays, November 2-November 16, 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, M.S.E.E.

Section 300: Saturdays, November 23-December 14 (skip November 30), 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, Ph.D.

Section 300: Thursdays, October 3-24, 6-9 p.m. 4 sessions. Humanities 245. \$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 300: Thursdays, November 7-December 12 (skip November 28), 6-9 p.m. 5 sessions. Humanities 1B45. \$450.

Extensible Mark-up Language (XML)

CAPR 3701

Got data? XML (Extensible Markup Language) is a W3C standard for encoding self-describing data. It is designed to ease the interchange of diverse types of data across a variety of platforms and applications, including the 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.

David Rodenbaugh, B.A.

Section 300: Thursdays, September 5-26, 6-9 p.m. 4 sessions. Humanities 125. \$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.

Tom Cargill, Ph.D.

Section 300: Tuesdays, October 29 and November 5, 6-9 p.m. 2 sessions. Humanities 245. \$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, B.S.

Section 300: Saturday, October 5, 9 a.m.-5 p.m. 1 session. University Computing Center 123. \$240.



When asked why he chose CU Continuing Education's Intermediate/Advanced C++ class, CU alum Brian Hochgurtel said it was because the computer applications program is timely, convenient and reasonably priced. But that's not all. "I looked forward to the class because of the teacher, Jim Elliott. I also looked forward to just being on campus again." Clearly, you can go home again. Or at least back to school!



Special Programs

INTERNATIONAL ENGLISH CENTER

In addition to its intensive, full-time program for international students, the International English Center (IEC), located at 1030 13th Street, provides evening classes in English as a second language for community residents or interested visitors from other countries. Meeting on Mondays and Wednesdays at a cost of \$400 (text included) for seven weeks, the classes are offered at three different proficiency levels - beginning, intermediate and advanced. Courses in practical writing and pronunciation are offered on Tuesdays and Thursdays for \$400 (text included) for seven weeks.

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

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

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

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

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



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

BLURR PM

blurr is a digital innovation lab at CU-Boulder dedicated to experience design. blurr's weeknight courses are designed for professional designers and extends the world-class instruction at CU-Boulder.

The blurr digital innovation lab includes a teaching facility featuring 20 Macintosh G4s with 22" LCD Apple Cinema Displays, a theater projection system with surround sound, full audio studio, and a variety of input devices. Each computer has a full complement of software, including: Final Cut Pro, Illustrator, Photoshop, Image Ready, Dreamweaver, Fireworks, Flash, and Microsoft Office.

For schedules, more details and registration information, visit our web site at blurr.colorado.edu or call us at 303-735-5184.

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

EMBEDDED SYSTEMS CERTIFICATE

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

The certificate consists of 3 courses:

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

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

SOFTWARE ENGINEERING CERTIFICATE

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

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

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

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

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 Leeds School of Business. We offer certificate programs in business with classes taught by faculty at the Leeds School of Business. We also offer the most respected real estate appraisal program in the state. Through the CBE you can access some of the greatest minds in business education:

- **CUBIC, CU Business Intensive Certificate**
- **CEDIR, Colorado Executive Development in Residence**
- **50 for Colorado**
- **Custom Business Programs**
- **Real Estate Appraisal Program**

CUBIC, CU Business Intensive Certificate, is an excellent opportunity for students from any accredited college/university to acquire skills that will guide them in choosing a career and provide business knowledge that will enhance their degree. This three-week, noncredit certificate program is designed to provide non-business juniors and seniors with a solid understanding of fundamental business skills and practices. Upon successful completion of the program students will earn a Certificate in Applied Business from CU. *CUBIC will be offered May 12-30, 2003.*

CEDIR, Colorado Executive Development in Residence, offers experienced business professionals a critical overview of fundamental business concepts in an interactive environment specifically designed for practicing managers. Participants gain a solid foundation in fundamental business skills, enhance functional knowledge of business, receive exposure to the latest management ideas, and learn to be more productive employees. Upon successful completion of the six-week program, participants will earn a Certificate in Executive Management from CU. Executives from numerous market-leading companies including IBM, Level 3 Communications and Sun Microsystems have participated in the program. *CEDIR is tentatively scheduled for July 21-August 3, 2003.*

50 for Colorado is a leadership program that offers 50 of Colorado's up and coming business leaders a hands-on opportunity to learn more about the state. The program is designed to educate participants on the industries that have the biggest impact on Colorado's economy while honing their individual leadership skills. Classes are held one to two days a month over a ten-month time frame. An individual must be nominated to participate. *The 50 for Colorado program is tentatively schedule to begin in January 2003.*

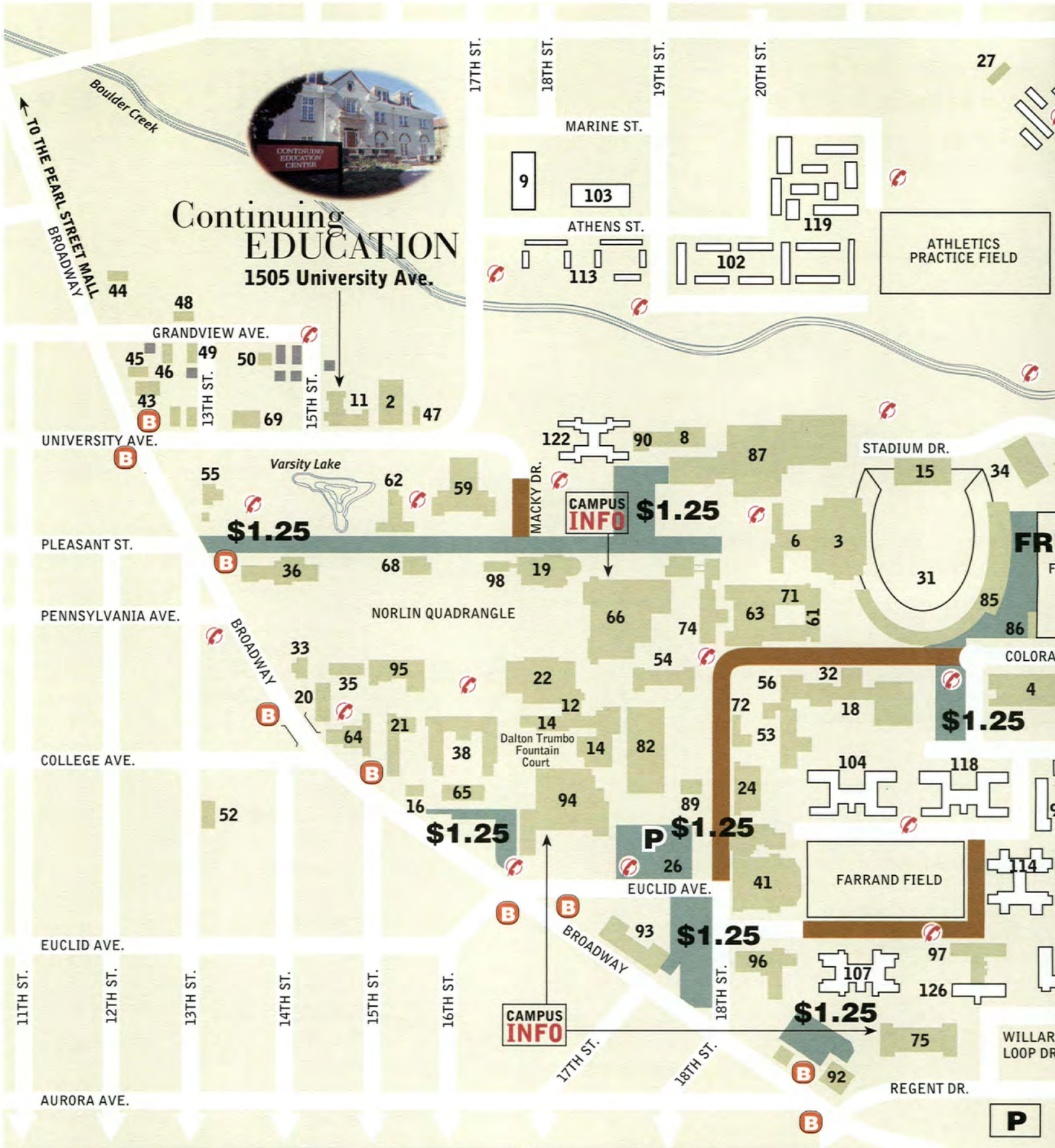
Custom Business Programs can be developed to meet the specific needs of your business and your employees. Clients can choose location, format, length and more.

The Real Estate Appraisal Program provides professionally developed courses for individuals planning to enter the appraisal profession as well as continuing education for those already in the field.

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

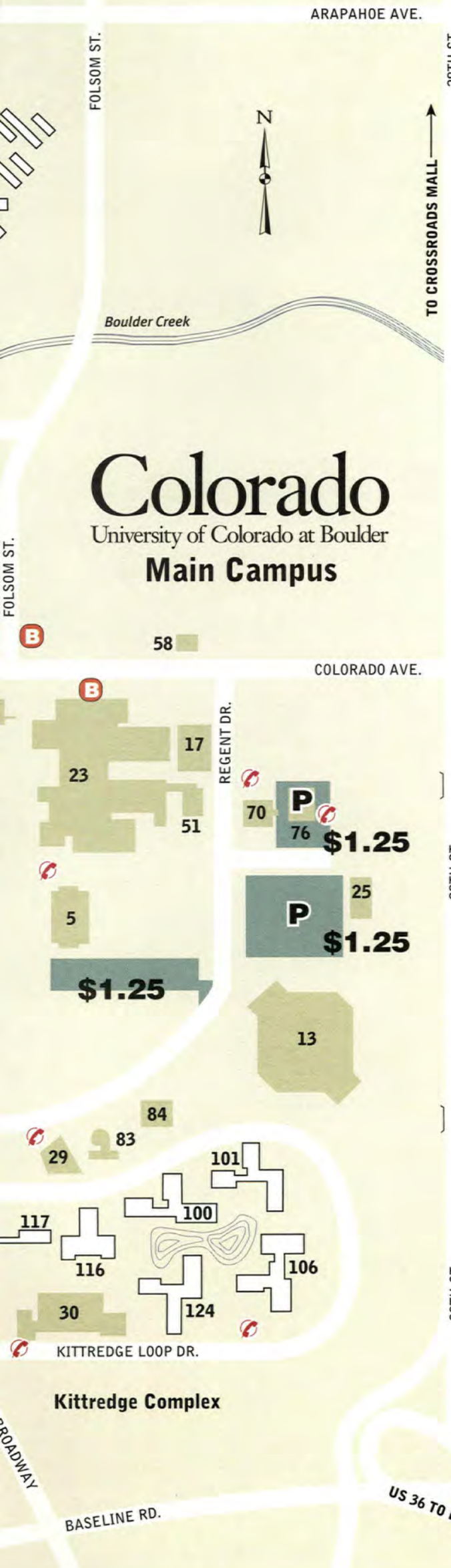
For more information on the CBE and its programs please visit the web site at leeds.colorado.edu/cbe or contact us at 303-735-1246.





Legend

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



Colorado

University of Colorado at Boulder

Main Campus

University Buildings

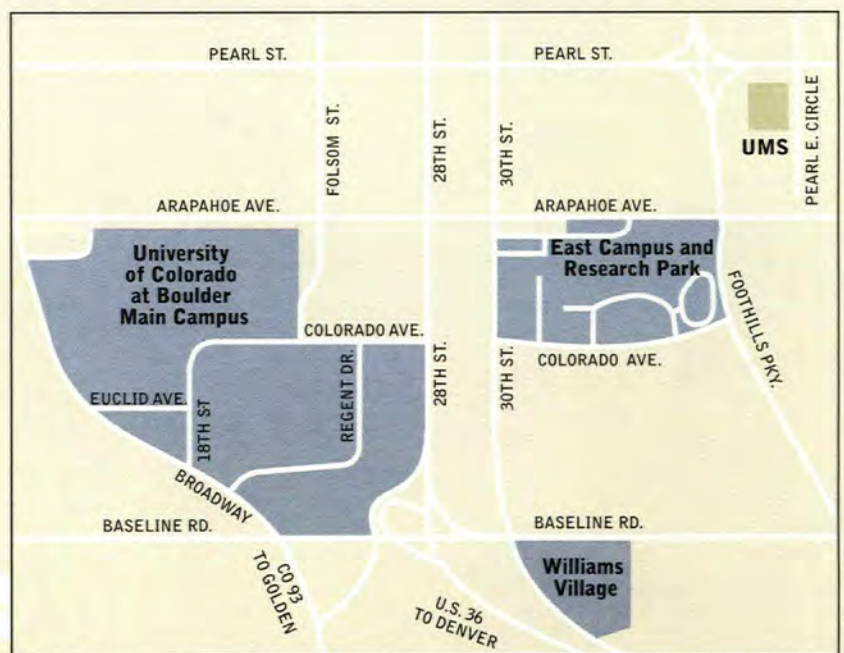
1. Administrative and Research Center—East Campus (J-2) (ARCE)
2. Armory (D-4) (ARMR)
3. Balch Fieldhouse (E-7) (FH)
4. Benson Earth Sciences Building (F-9) (BESC)
- * Bruce Curtis Collections. See *Museum Collections*.
5. Business (H-10) (BUS)
6. Carlson Gymnasium (E-7) (CARL)
7. Center for Astrophysics 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 Wolle 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. Hellemis 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) (MCDDB)
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 R.L.I. (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 Wolle 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—Kitteridge Complex (J-11) (ANDS)
101. Arnett Hall—Kitteridge 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—Kitteridge 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. Kitteridge Commons—Kitteridge Complex (J-10) (KITT)
117. Kitteridge West Hall—Kitteridge 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—Kitteridge 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 August 5!

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

Summer hours through August 9:

Monday-Friday 7:30 a.m.-4:30 p.m. (Thursdays until 5:30 p.m.)

Fall and Spring hours starting August 12:

Monday-Friday 8 a.m.-5 p.m. (Thursdays until 6 p.m.)

Extended Fall registration hours:

August 5-8 7:30 a.m.-6 p.m.

August 26-28 8 a.m.-6 p.m.

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 which includes requesting transcripts over the phone. Please call or visit our office to receive the required form.

Severe Weather

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

Books and Supplies

Required course materials are available at the CU Bookstore in the 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

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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:

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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.

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

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

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

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

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

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

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

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

Student's Signature _____ Date _____

Charge: VISA MasterCard Discover (check one)

Tuition Payment

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

Expiration Date _____/_____/_____

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

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 2002, No 6. 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.

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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.

1. Are you a University of Colorado at Boulder faculty/staff member? No Yes
2. Have you ever enrolled for any courses at any campus of the University of Colorado? No Yes If yes, most recent: Term: ____ Year: ____ Campus: ____
3. Do you owe a debt to any University of Colorado campus? No Yes
4. 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 without evasion or misrepresentation. Please register me for the course(s) listed above.

Signature: _____ Date: _____

Tuition Payment
(Your payment must accompany this registration form.)

<p>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.)</p> <p>Mail your registration to: Division of Continuing Education University of Colorado at Boulder 178 UCB Boulder, CO 80309-0178</p> <p>Or, if using a credit card, fax your registration to 303-492-3962, or call 303-492-5148 to register over the phone.</p>	<p>Charge my: <input type="checkbox"/> VISA <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover <input type="checkbox"/> University ACARD</p> <p>Acct. No: _____</p> <p>Expiration Date: ____/____/____</p> <p>Cardholder's Name: _____ <small>Please print.</small></p>
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