

**Engineering for Developing Communities Track
for Undergraduate Civil Engineering Students
in the Department of Civil, Environmental and Architectural Engineering**

**Guidelines for CVEN Students and Advisors
April 2006**

The purpose of this track is to prepare students who have basic competencies in issues that are critical to the understanding of the developing world. Some of these topics include: engineering, sustainability, appropriate technology, renewable energy, international education and development, business, health, and various fields of humanities.

Students must complete all requirements for their respective engineering degree. The track simply guides students to certain options within their academic requirements.

To enter the EDC track during the 2006-2007 academic year, the student must:

1. Be an undergraduate degree-seeking student with a declared major in Civil Engineering (CVEN) in the College of Engineering and Applied Science; and
2. Submit an "Addition of EDC track" *which includes a designated focus area or theme*, to the department's undergraduate advising coordinator at least one semester prior to the student's expected date of graduation. (For example, May graduates must declare their intent to complete the track prior to the end of the preceding fall semester, and August and December graduates must declare their intent prior to the end of the preceding spring semester.)

The student must complete the following academic requirements:

I. Technical Electives (6 credits, upper division)

Technical electives are upper division courses, generally in engineering or science. Two appropriately-focused technical elective courses should be chosen in conjunction with the student's primary academic advisor and the EDC track coordinator. The list of EDC-appropriate, currently approved technical electives for Civil Engineering students is attached to this advising guide, and is also available on the EDC website (<http://www.edc-cu.org/Education.htm>).

II. Project Experience (4 credits)

Students must complete project work focusing on a domestic or international developing community and/or sustainability topics. Typically this design course would be taken during the student's last semester prior to graduation. To complete this requirement, students must:

- A. Enroll in CVEN 4838 Engineering for the Developing World (a four-credit hour senior design course offered only in spring semesters), or
- B. Enroll in CVEN 4830 Civil Engineering Project Design (and focus on sustainable development and/or appropriate technology aspects of the project)

III. Humanities & Social Science (9 credits, incl. 6 upper division, in a designated focus area or theme)

1. Two three-credit humanities/social science courses (at least one of which is upper-division), from the list of *EDC-appropriate humanities and social science electives* maintained on the EDC website (<http://www.edc-cu.org/Education.htm>). EDC-focused courses are a subset of the Humanities and Social Sciences (H&SS) courses that fulfill College of Engineering and Applied Science graduation requirements. The EDC H&SS course list indicates specific focus areas/themes.
2. One of the following upper-division courses in sustainability (3 credits):
 - a. CVEN 4700 Sustainability and the Built Environment
 - b. CVEN 4830 Sustainable Engineering Business Strategies (fall 2006)
 - c. ENVS 5810 Climate, Water Resources and Environmental Sustainability

- d. GEOG 5762 Sustainable Development: Theory and Classic Issues
- e. GEOG 5772 Sustainable Development: Institutions and Policy
- f. SYST 6820 Assessing Sustainable Energy Technologies
- g. An equivalent course, pre-approved by EDC faculty advisor

In addition to the above-listed requirements, EDC track students are strongly encouraged to enroll in the appropriate technologies section of GEEN 1400 Freshman Engineering Projects, GEEN 3400 Invention and Innovation, or GEEN 4100 Engineering Outreach Corp (each of which fulfills the Basic Engineering Elective requirement for the Civil Engineering degree).

Upon completion of the requirements

1. An EDC Track Advising Form must be completed and signed by the student and the student's primary academic advisor. This form must be turned into the EDC track coordinator at least one month prior to graduation. Upon verification of track completion, the graduating student will receive a letter that briefly explains the program and indicates completion of the EDC track requirements.

Additional Information

Transfer Credit: No more than 6 credit hours of transfer or Advanced Placement (AP) / International Baccalaureate (IB) may be applied toward EDC track requirements.

Study Abroad: With prior approval by the EDC track coordinator, courses taken during study abroad programs may be accepted towards meeting EDC track requirements, depending on content. In order to verify course content, students should get as much information as possible about the course in advance, and should retain information upon return from the study abroad program. Students should separately verify with their primary advisor that courses chosen will be accepted by their major department.

Students can search online, by major, for CU-Boulder study abroad programs at <http://www.colorado.edu/OIE/studyabroad/search.html>. Students should contact the Office of International Education's Study Abroad Programs Office (<http://www.colorado.edu/OIE/studyabroad/index.html>), their primary academic advisor, and the EDC track coordinator concerning their intent to use study abroad credit as soon as they consider participating in a study abroad program.

Credits earned during a CU-sponsored program are considered "in-residence" (not "transfer") credits.

Contact Information

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SEM	CR	New CVEN BLOCK DIAGRAM showing EDC track rqmts					
8	17	Proficiency IV –3	Conc/Tech-3	Conc/Tech-3	Conc/Tech- 1	Senior Design Experience Selection-4*	H&SS -3 Elective (upper-division)
7	15	Proficiency III –3	CVEN 3602-3 Transportation Systems (Instructor consent) #	Conc/Tech-3	Conc/Tech-3 If not taking Proficiency IV-3	Proficiency IV-3	H&SS -3 Elective
6	15	CVEN 3227-3 Probability Statistic & Decision for Civil Engrs. (APPM 2360 JR Standing) #	Proficiency I –3	CVEN 3111-3 Analytical Mechanics II (CVEN 2121 & co-req APPM 2360) #	Proficiency II–3		WRTG 3030-3 Writing on Science & Society (JR standing)
	5	15	CVEN 3246-3 Intro. To Construction (JR level or Instructor Consent)	CVEN 3323-3 Hydrologic Engineering (CVEN 3313) #	CVEN 3525-3 Structural Analysis (CVEN 3161)	CVEN 3414-3 Intro. To Env. Engr. (CHEM 1211, CHEN 1221, & APPM 2350) #	CVEN 3708-3 Geotechnical Engineering I (CVEN 3161)
4	16	APPM 2360-4 Introduction to Linear Algebra & Differential Equations	CVEN 3313-3 Theoretical Fluid Mechanics (CVEN 2121) #	CVEN 3161-3 Mechanics of Materials I (CVEN 2121, co-req APPM 2360)	CVEN 3698-3 Engineering Geology	AREN 2300-3 Engr. Computing (APPM 1350, APPM 1360 & PHYS 1110) #	
3	18	APPM 2350-4 Calculus III for Engineers (APPM 1360 or MATH 2300)	PHYS 1120-4 PHYS 1140-1 Gen.Phys/Lab (PHYS 1110 co-req & MATH 2300 or APPM 1360)	CVEN 2121-3 Analytical Mechanics I (PHYS 1110, co-req APPM 2350)		AREN 2110-3 Thermodynamic (APPM 1360 & PHYS 1110) #	H&SS -3 Elective
	2	17	APPM 1360-4 Calculus II for Engineers (APPM 1350 or MATH 1300)	PHYS 1110-4 Gen. Physics I (co-req APPM 1350 or MATH 1300)		CVEN 2012-3 Introduction to Geomatics (APPM 1350)	AREN 1017 - 2 Engineering Drawing
1	16	APPM 1350-4 Calculus I for Engineers (2yr HS Alg 1yr Geom. 1/2yr Trig or approval by fac advisor)	CHEN 1211-3 Gen Chem for Engrs (1yr HS Chem or Satis. Grade in CHEM 1001 or 1021 & HS Algebra, coreq CHEN 1221) \$	CHEM 1221-2 General Chemistry Lab for Engineers \$	Basic Engineering Elective GEEN 1400, 3400, or 4100 recommended	CVEN 1317-1 Introduction to Civil & Envnt'l Engineering same as AREN 1316 #	H&SS -3 Elective

- Courses marked thus are offered only in SEMESTER shown.
 \$ - CHEN 1211 & CHEM 1221 must be taken concurrently.
 () - Prerequisite or Co-requisite required before taking course listed.

EDC track students are strongly encouraged to take either the appropriate technology section of GEEN 1400, GEEN 3400 Invention & Innovation, or GEEN 4100 Engineering Outreach Corps as their Basic Engineering Elective.

Design Course requirement: Students may enroll in CVEN 4838 Engineering for the Developing World or CVEN 4830 Civil Engineering Project Design. The student's design work should focus on developing community and/or sustainable development aspects of the project.

- Design Course
- Course in which EDC design element is or could be incorporated
- Technical Elective
- Humanities & Social Science Electives
 One upper division sustainability course (see list) and
 Two EDC-approved H&SS courses, at least one upper division

Curriculum for the B.S. in Civil Engineering

This curriculum meets accreditation requirements for design and laboratory experience, and the requirements for the optional Engineering for Developing Communities track.

Mathematics (16)

APPM 1350-4	Calculus 1 for Engrs
APPM 1360-4	Calculus 2 for Engrs
APPM 2350-4	Calculus 3 for Engrs
APPM 2360-4	Intro to Diff Eqns/Lin Alg

Basic Science (16)

CHEN 1211-3	Gen Chemistry for Engrs
CHEM 1221-2	Engrg Gen Chemistry Lab
PHYS 1110- 4	General Physics 1
PHYS 1120- 4	General Physics 2
PHYS 1140- 1	Experimental Physics 1
CVEN 3698-2(of 3)	Engineering Geology

Humanities & Social Sciences (18)

WRTG 3030-3 Writing on Science/Society
Sustainability Course (upper div, see list)
EDC-approved H&SS course (see list)
EDC-approved H&SS course* (see list)
*Must be 3000 level or above

Basic Engineering Elective (3)⁺

GEEN 1400-3 Engineering Projects
or _____

Notes:

⁺ The recommended Basic Engineering Elective for EDC track students is either GEEN 1400 Engineering Projects (the appropriate technology section if offered), GEEN 3400 Invention & Innovation, or GEEN 4100 Engineering Outreach Corps. However, it can be any 3 credit course given in the engineering college with a designator ASEN, AREN, CHEN, CVEN, CSCI, ECEN, EVEN, GEEN, or MCEN.

⁺⁺ The Significant Design Experience should include an emphasis on solutions for developing communities and/or sustainability.

Engineering Science (28)

CVEN 1317-1	Intro to CE and ArchE
AREN 1017-2	Engineering Drawing
AREN 2110-3	Thermodynamics
AREN 2300-3	Intro to Engrg Computing
CVEN 2012-3	Geomatics
CVEN 2121-3	Analytical Mechanics 1
CVEN 3111-3	Analytical Mechanics 2
CVEN 3161-3	Mechanics of Materials 1
CVEN 3313-3	Theoretical Fluid Mech
CVEN 3227-3	Probability & Statistics
CVEN 3698-1(of 3)	Engineering Geology

CE – Fundamentals (18)

CVEN 3246-3	Intro to Construction
CVEN 3323-3	Hydraulic Engineering
CVEN 3414-3	Fund of Environmental Eng
CVEN 3525-3	Structural Analysis
CVEN 3708-3	Geotechnical Engineering 1
CVEN 3602-3	Transportation Systems

Proficiency (12)

Four of the following 5 courses:

CVEN 3718-3	Geotechnical Engineering 2
CVEN 3333-3	Engineering Hydrology
CVEN 3256-3	Const Equipment/Methods
CVEN 4545/4555-3	Steel <u>or</u> Concrete Design
CVEN 3424-3	Water and Wastewater Trmt

Concentration (6)

	Circle Selection				
	Const	Env	Geotech	Struct	Water
1	_____				
2	_____				

Technical Electives (7)

1. EDC-approved Tech Elective course (see list)
2. EDC-approved Tech Elective course (see list)
3. _____

Significant Senior Design Experience (4)⁺⁺

(With EDC/sustainability focus in project)
CVEN 4830-4 Engr for Developing World, or
CVEN 4830-4 Senior Design Experience

TOTAL 128

Approved 03/15/06

Approved Courses for Engineering for Developing Communities Track

Basic Engineering Electives

GEEN 1400: Engineering Projects (Appropriate Technologies section, if offered)
GEEN 3400: Invention and Innovation (Appropriate Technology section, if offered)
GEEN 4100: Engineering Outreach Corps

Design Courses (student must include EDC Component)

CVEN 4838: Special Topics: Engineering for the Developing World
CVEN 4830: Special Topics: Civil Engineering Project Design

EDC Appropriate Technical Electives

AREN 3130: Building Energy Lab
AREN 4315: Design of Masonry Structures
AREN 4416: Construction Costs/Estimating
AREN 4580: Daylighting
AREN 4830: Special Topics: Energy & Environmental Policy

ASEN 4090: Global Positioning Systems Applications
ASEN 4337: Remote Sensing Data Analysis

ATOC 3500: Air Chemistry and Pollution

CHEN 4330: Chemical Engineering Reaction Kinetics

CSEN 2830/4830: Educational Technology House
CSEN 2830/4830: Technology for Community

CVEN 3022: Construction Surveying
CVEN 3207: City Planning
CVEN 3424: Water and Wastewater Treatment
CVEN 3434: Introduction to Applied Ecology
CVEN 3454: Water Chemistry
CVEN 4147: Engineering Economics and System Design
CVEN 4323/5423: Water Resources Engineering Design
CVEN 4333: Engineering Hydrology
CVEN 4353/5353: Groundwater Engineering
CVEN 4424/5424: Aquatic Organic Contaminants
CVEN 4434/5434: Environmental Engineering Design
CVEN 4525: Analysis of Framed Structures
CVEN 4565: Timber Design (2 credit)
CVEN 4838/5838: Natural Capitalism for Engineers
CVEN 5020: Energy Audit of Buildings
CVEN 5050: Advanced Solar Design
CVEN 5147: Civil Engineering Systems
CVEN 5323: Applied Stream Ecology
CVEN 5343: Transport & Dispersion in Surface Water
CVEN 5363: Modeling of Hydro Systems
CVEN 5373: Water Law, Policy And Institutions
CVEN 5383: Groundwater Modeling
CVEN 5393: Water Resources Development and Management
CVEN 5404: Environmental Engineering Chemistry
CVEN 5423: Water Resources Engr Design

Approved Courses for Engineering for Developing Communities Track

EDC Appropriate Technical Electives, continued

CVEN 5484: Environmental Microbiology
CVEN 5494: Surface Water Quality Modeling
CVEN 5534: Waste Water Treatment
CVEN 5544: Solid Waste Management
CVEN 5565: Life Cycle Engineering of Civil Infrastructure Systems
CVEN 5748: Design Of Earth Structures
CVEN 5830: Special Topics: Renewable Energy: Analysis & Assessment
CVEN 5830: Special Topics: Energy & Environmental Policy
CVEN 5830: Special Topics: Sustainable Building Design
CVEN 5834: Special Topics: Environmental Engineering Processes
CVEN 5834: Special Topics: Environmental Health in Developing Communities
CVEN 5834: Special Topics: Appropriate Treatment Technology

EBIO 3400: Microbiology
EBIO 4020: Stream Biology
EBIO 4030: Limnology
EBIO 4180: Ecological Perspectives on Global Change

ECEN 3170: Energy Conversion

EMEN 4030: Project Management Systems

ENVD 4031: Thinking Like a Mountain: A New Land Ethic
ENVD 4035: Solar and Sustainable Design

ENVS 3070/PHYS 3070: Energy and the Environment
ENVS 5000: Policy, Science, and the Environment
ENVS 5820: Renewable Energy Policy

GEOG 5762: Sustainable Development: Theory and Classic Issues
GEOG 5772: Sustainable Development: Institutions & Policy

GEOL 4716: Environmental Field Geochemistry

MCEN 4141: Indoor Air Pollution
MCEN 4162: Energy Conversion

TLEN 4830: Making Waves: Telecommunications and Society

Humanities & Social Science Electives: Sustainability Requirement

Department	Subject	Number	Course Title	
Civil Engineering	CVEN	4700/5700	Sustainability and the Built Environment	Sustainability / Sustainable Development
	CVEN	4830	Sustainable Engineering Business Strategies (fall 2006)	Sustainability / Sustainable Development
Environmental Science	ENVS	5810	Climate, Water Resources and Environmental Sustainability	Sustainability / Sustainable Development
Geography	GEOG	5762	Sustainable Development: Theory and Classic Issues	Sustainability / Sustainable Development
	GEOG	5772	Sustainable Development: Institutions and Policy	Sustainability / Sustainable Development
Systems (Business)	SYST	6820	Assessing Sustainable Energy Technologies	Sustainability / Sustainable Development

Humanities & Social Science Electives: H&SS Requirement

Department	Subject	Course	Course Title	Focus Area / Theme
Afro American Studies	BLST	1150 ^x	Regional Cultures of Africa	Regional: Africa
	BLST	2210	Black Social and Political Thought	
American Indian Studies	AIST	1125	Exploring a Non-Western Culture: Hopi and Navajo, Cultures in Conflict	Regional: North America/Native America
	AIST	2000 ^x	Introduction to American Indian Studies: Precontact Native America	Regional: North America/Native America
	AIST	2015	Topical Issues in Native North America	Regional: North America/Native America
	AIST	2700	American Indian Religious Traditions	Regional: North America/Native America
	AIST	3135 ^x	North American Indians: Traditional Cultures	Regional: North America/Native America
	AIST	3210	American Indian Women	Regional: North America/Native America
	AIST	3400	Indian/Government Conflicts	Regional: North America/Native America
	AIST	4350 ^x	Native American Religions: Religious Studies	Regional: North America/Native America
	AIST	4565	North American Indian Acculturation	Regional: North America/Native America
	AIST	4627 ^x	The Indian in American History: The Western Region	Regional: North America/Native America
American Studies / Asian American Studies / Womens Studies	AMST / AASST / WMST	3900	Asian American Women	Regional – Asia/Middle East/Pacific
Anthropology	ANTH	1030 ^x	Principles of Anthropology 1	Non Specific Cultural Courses
	ANTH	1040 ^x	Principles of Anthropology 2	Non Specific Cultural Courses
	ANTH	1100	Exploring a Non-western Culture: The Tamils	Regional – Asia/Middle East/Pacific
	ANTH	1120	Exploring a Non-western Culture: Japan	Regional – Asia/Middle East/Pacific
	ANTH	1130 ^x	Exploring a Non-western Culture: Hopi and Navajo: Cultures in Conflict	Regional: North America/Native America
	ANTH	1140	Exploring a Non-western Culture: Amazonian Tribal Peoples	Regional: Africa
	ANTH	1150	Exploring a Non-western Culture: The Maya	Regional: Latin America
	ANTH	1160	Exploring a Non-Western Culture: Regional Cultures of Africa	Regional: Africa
	ANTH	2080 ^x	Anthropology of Gender	
	ANTH	2100	Frontiers of Cultural Anthropology	Non Specific Cultural Courses
	ANTH	3100 ^x	Africa: Peoples and Societies in Change	Regional: Africa
	ANTH	3110	Ethnography of Mexico and Central America	Regional: Latin America
	ANTH	3130 ^x	North American Indians: Traditional Cultures	Regional: North America/Native America
	ANTH	3160	Peoples of the South Pacific	Regional – Asia/Middle East/Pacific
	ANTH	3300	Elements of Religion	
	ANTH	3800 ^x	Languages and People	Language and Communication
	ANTH	4020	Explorations in Anthropology	
	ANTH	4060	Nutrition and Anthropology	Non Specific Cultural Courses
	ANTH	4150 ^x	Human Ecology: Biological Aspects	Non Specific Cultural Courses
	ANTH	4500 ^x	Cross-Cultural Aspects of Socioeconomic Development	Int'l Development/Int'l Affairs Theme
	ANTH	4530	Theoretical Foundations of Social and Cultural Anthropology	Non Specific Cultural Courses
	ANTH	4560	North American Indian Acculturation	Regional: North America/Native America
	ANTH	4600 ^x	Human Ecology: Cultural Aspects	Non Specific Cultural Courses
ANTH	4610 ^x	Medical Anthropology	Medicine and Biology	
ANTH	4740 ^x	People and Cultures of Brazil	Regional: Latin America	
ANTH	4760 ^x	Ethnography of Southeast Asia and Indonesia	Regional – Asia/Middle East/Pacific	

Humanities & Social Science Electives: H&SS Requirement

Department	Subject	Course	Course Title	Focus Area / Theme
Arabic	ARAB	1010/1020	Beginning Arabic 1 and 2	Language and Communication
	ARAB	2010/2020	Intermediate Arabic 1 and 2	Language and Communication
	ARAB	3230	Islamic Culture & Iberia	Regional: Asia/Middle East/Pacific
Business Economics	BECN	4200	Business & Society (was BCOR 4000: Seminar in Business and Society).	
Chicano Studies	CHST	4128 ^x	The Emergence of Modern Mexico	Regional: Latin America
Chinese	CHIN	3441 ^x	Chinese Language and Society	Language and Communication
Communication	COMM	1210	Perspectives on Human Communication	Language and Communication
	COMM	2360	Campaigns and Revolutions	Language and Communication
	COMM	2400	Communication and Society	Language and Communication
	COMM	2500	Interpersonal Communication	Language and Communication
	COMM	2600	Organizational Communication	Language and Communication
	COMM	3100 ^x	Current Issues in Communication and Society	Language and Communication
	COMM	3210	Human Communication Theory	Language and Communication
Dance	DNCE	1029	Dance as a Universal Language	Language and Communication
East Asian Languages and Civilization	EALC	1011	Introduction to Traditional East Asian Civilizations	Regional: Asia/Middle East/Pacific
	EALC	1021	East Asian Civilization: Modern Period	Regional: Asia/Middle East/Pacific
Economics	ECON	1000	Introduction to Economics	Int'l Development/Int'l Affairs Theme
	ECON	3403	International Economics and Policy	Int'l Development/Int'l Affairs Theme
	ECON	3535/4535	Natural Resource Economics	Environment
	ECON	3545/4545	Environmental Economics	Environment
	ECON	4292	Migration, Urbanization, and Development	Int'l Development/Int'l Affairs Theme
	ECON	4413	International Trade	Int'l Development/Int'l Affairs Theme
	ECON	4423	International Finance	Int'l Development/Int'l Affairs Theme
	ECON	4433 ^x	Economics of the Pacific Area	Regional – Asia/Middle East/Pacific
	ECON	4606 ^x	Introduction to Demography	Int'l Development/Int'l Affairs Theme
	ECON	4616	Labor Economics	Int'l Development/Int'l Affairs Theme
	ECON	4626	Economics of Inequality and Discrimination	
	ECON	4774	Economic Reform in Developing Countries	Int'l Development/Int'l Affairs Theme
	ECON	4784	Economic Development	Int'l Development/Int'l Affairs Theme
Education	EDUC	3013	School and Society	
Environmental Design	ENVD	2001	Introduction to Social Factors in Environmental Design	
	ENVD	3001	Environment and Behavior	Environment
	ENVD	4311	Housing Policies and Practices	
	ENVD	4794	History of Urban Design and Planning	
Ethnic Studies	ETHN	3003	Race, Class, and Pollution Politics	
	ETHN	3023 ^x	Principles and Practices of Multicultural Leadership Development	
	ETHN	3300	Elements of Religion	
	ETHN	3670 ^x	Immigrant Women in the Global Economy	Int'l Development/Int'l Affairs Theme
Farrand Academic Program	FARR	1562	Gandhi's "Satyagraha": Love in Action for Humans and Other Creatures	
	FARR	1595	Community Service: Personal Growth and Public Good	
	FARR	2400	Understanding Privilege and Oppression in Contemporary Society	Non Specific Cultural Courses
	FARR	2600 ^x	Ethics of Ambition	Non Specific Cultural Courses
	FARR	2820 ^x	The Future of Spaceship Earth	Non Specific Cultural Courses
General Engineering	GEEN	1100	Social Impact on Technology	
Geography	GEOG	1982	World Regional Geography	
	GEOG	1992	Human Geographies	Non Specific Cultural Courses
	GEOG	2002	Geographies and Global Change	Environment
	GEOG	2412	Environment and Culture	Environment
	GEOG	3402 ^x	Natural Hazards	Environment
	GEOG	3412	Conservation Practice and Resource Management	Environment

Humanities & Social Science Electives: H&SS Requirement

Department	Subject	Course	Course Title	Focus Area / Theme
Geography cont'd	GEOG	3422	Conservation Thought	Environment
	GEOG	3612 ^x	Geography of American Cities	Regional: North America/Native America
	GEOG	3662 ^x	Economic Geography	
	GEOG	3672 ^x	Gender and Global Economy	Int'l Development/Int'l Affairs Theme
	GEOG	3682	Geography of International Development	Environment
	GEOG	3742 ^x	Place, Power, and Contemporary Culture	Environment
	GEOG	3812 ^x	Mexico, Central American, and the Caribbean	Regional: Latin America
	GEOG	3822	Geography of China	Regional – Asia/Middle East/Pacific
	GEOG	3862 ^x	Geography of Africa	Regional: Africa
	GEOG	4292	Migration, Urbanization, and Development	
	GEOG	4501	Water Resources And Water Management Of Western US	Regional: North America/Native America
	GEOG	4712	Political Geography	
	GEOG	4732	Population Geography	Non Specific Cultural Courses
	GEOG	4742	Environment and Peoples	Environment
	GEOG	4812 ^x	Environment and Development in South America	Regional: Latin America
	GEOG	4822 ^x	Geography and Modernity in China	Regional – Asia/Middle East/Pacific
	GEOG	4292/5292	Migration, Urbanization and Development	
Hebrew	HEBR	1010/1020	Beginning Hebrew 1 and 2	Language and Communication
	HEBR	2110/2120	Intermediate Hebrew 1 and 2	Language and Communication
	HEBR	2350	Intro to Jewish Culture	Regional – Asia/Middle East/Pacific
Hindu		Courses begin Fall 2006	Language and Communication	
History	HIST	1038	Introduction to Latin American History	Regional: Latin America
	HIST	1208	Sub-Saharan Africa to 800	Regional: Africa
	HIST	1308	Introduction to Middle Eastern History	Regional: Asia/Middle East/Pacific
	HIST	1608	Introduction to Chinese History	Regional: Asia/Middle East/Pacific
	HIST	1708	Introduction to Japanese History	Regional: Asia/Middle East/Pacific
	HIST	2126	Modern U.S. Politics and Diplomacy	Int'l Development/Int'l Affairs Theme
	HIST	2222	War and Society in the Modern World	
	HIST	2616	Women's History	
	HIST	2626	Gender and Culture	
	HIST	3010 ^x	Communist Societies in Historical Perspective	
	HIST	4016	The Rise and Fall of African Slavery in the New World	Regional: Africa
	HIST	4020	Comparative World History	
	HIST	4026 ^x	U.S. - Indian Relations	
	HIST	4128 ^x	The Emergence of Modern Mexico	Regional: Latin America
	HIST	4248	Africa in the 9th Century	Regional: Africa
	HIST	4326 ^x	Health and Disease in the United States	
	HIST	4417 ^x	Environmental History of North America	Environment
	HIST	4538	History of Modern India	Regional: Asia/Middle East/Pacific
	HIST	4617	The Indian in American History: The Eastern Region	
	HIST	4619 ^x	Women in Asian History	Regional: Asia/Middle East/Pacific
HIST	4628	Modern China	Regional: Asia/Middle East/Pacific	
HIST	4638 ^x	Contemporary China	Regional: Asia/Middle East/Pacific	
HIST	4726 ^x	U.S. Immigration History	Regional: North America/Native America	
International Affairs	IAFS	1000	Global Issues and International Affairs	Int'l Development/Int'l Affairs Theme
	IAFS	3000 ^x	Special Topics in International Affairs	Int'l Development/Int'l Affairs Theme
	IAFS	4700 ^x	Global Perspectives and Political Philosophy	Int'l Development/Int'l Affairs Theme
International and National Voluntary Service Training	INVS	1000	Responding to Social and Environmental Problems through Service Learning	Environment
	INVS	3000	Innovative Approaches to Contemporary Issues	
	INVS	3041	Self and Consciousness (same as SOCY 3041)	
	INVS	3100	Multicultural Leadership: Theories, Principles and Practices (same as ETHN 3200)	
	INVS	3302	Facilitating Peaceful Community Change (same as WMST 3302)	
	INVS	4033	Implementing Social Change	
	INVS	4732	Critical Thinking in Development (same as PSCI 4732)	Int'l Development/Int'l Affairs Theme
INVS	4914	Nonviolent Social Movements (same as SOCY 4115)		
Journalism	JOUR	4201	International Mass Communication	Language and Communication

Humanities & Social Science Electives: H&SS Requirement

Department	Subject	Course	Course Title	Focus Area / Theme
Latin American Studies	LAMS	1000 ^x	Introduction to Latin American Studies	Regional: Latin America
Leadership Residential Academic Program	LDSP	2400	Understanding Privilege and Oppression in Contemporary Society	
Linguistics	LING	2000	Introduction to Linguistics	
	LING	2400	Language and Gender	Language and Communication
	LING	3220 ^x	American Indian Languages in a Social and Cultural Context	Regional: North America/Native America
	LING	3545 ^x	World Language Policies	Language and Communication
	LING	4100	Perspectives on Language	Language and Communication
	LING	4220 ^x	Language and Mind	Language and Communication
	LING	4560	Language Development	Language and Communication
	LING	4800	Language and Culture	
Music	MUSC	4012	African Music	Regional: Africa
	MUSC	4112	Ethnomusicology	
	MUSC	4792 ^x	Twentieth-Century Music	
	MUSC	4892	Latin American Music	
Music (Elective)	EMUS	2772	World Music	
	EMUS	4012	African Music	
Peace and Conflict Studies	PACS	2500	Introduction to Peace Studies	
	PACS	3510 ^x	Ideology, Conflict, and Peace	
	PACS	3520 ^x	Environmental Dimensions of International Security	Environment
Philosophy	PHIL	1100	Ethics	
	PHIL	1200	Philosophy and Society	
	PHIL	3140	Environmental Ethics	Environment
	PHIL	3260	International Human Rights	Int'l Development/Int'l Affairs Theme
Political Science	PSCI	2012	Introduction to Comparative Politics: Developed Political Systems	
	PSCI	2223	Introduction to International Relations	
	PSCI	3072	Government and Politics in Southeast Asia	Int'l Development/Int'l Affairs Theme
	PSCI	3082	Political Systems of Sub-Saharan Africa	Regional: Asia/Middle East/Pacific
	PSCI	3143	Problems in International Relations	Regional: Africa
	PSCI	3163	American Foreign Policy	Int'l Development/Int'l Affairs Theme
	PSCI	3193	International Behavior	Int'l Development/Int'l Affairs Theme
	PSCI	3201	Environment and Public Policy	Int'l Development/Int'l Affairs Theme
	PSCI	4012	Global Development	Environment
	PSCI	4052 ^x	Political Systems of China, Japan, Korea	Int'l Development/Int'l Affairs Theme
	PSCI	4062	Emerging Democracies of Central and Eastern Europe	Regional: Asia/Middle East/Pacific
	PSCI	4173	International Organizations	Int'l Development/Int'l Affairs Theme
	PSCI	4182 ^x	International Law	Int'l Development/Int'l Affairs Theme
	PSCI	4732	Critical Thinking in Development (same as INVS 4732)	
	PSCI	4783	Global Issues	
	PSCI	4792	Issues in Latin American Politics	Regional: Latin America
President's Leadership Class	PRLC	1820	Community Issues and Leadership	
	PRLC	2810 ^x	Global Issues and Leadership	
Religious Studies	RLST	1620 ^x	Religious Dimension of Human Experience	
	RLST	2300 ^x	Religions of Traditional Peoples	
	RLST	2600	World Religions: Western	Regional: Latin America
	RLST	2610	World Religions: Indian	Regional – Asia/Middle East/Pacific
	RLST	2620	World Religions: China and Japan	Regional – Asia/Middle East/Pacific
	RLST	2700	American Indian Religious Traditions	
	RLST	2800	Women and Religion	
	RLST	3100 ^x	Judaism	Regional: Asia/Middle East/Pacific
	RLST	3200	Hinduism	Regional: Asia/Middle East/Pacific
	RLST	3250 ^x	Gandhi-Life and Teaching	
	RLST	3300	Indian Buddhism	Regional: Asia/Middle East/Pacific
	RLST	3600 ^x	Islam	Regional: Asia/Middle East/Pacific
	RLST	3800	Chinese Religions	Regional: Asia/Middle East/Pacific
	RLST	4350 ^x	Native American Religions Religious Studies	Regional: North America/Native America
	RLST	4650 ^x	Islam in the Modern World	Regional: Asia/Middle East/Pacific

Humanities & Social Science Electives: H&SS Requirement

Department	Subject	Course	Course Title	Focus Area / Theme
Sociology	SOCY	1002 ^x	Global Human Ecology	Environment
	SOCY	2015 ^x	Sociology of Natural and Social Environment	
	SOCY	2505 ^x	Sociology of Peacemaking	Environment
	SOCY	3012	Women, Development, and Fertility	
	SOCY	3091 ^x	Environment and Society	
	SOCY	4022 ^x	Population Studies: Fertility and Mortality	
	SOCY	4035	Social Stratification	
	SOCY	4071 ^x	Technology and Modernization	
Women's Studies	WMST	2020	Social Construction of Femininities and Masculinities	Int'l Development/Int'l Affairs Theme Regional: Asia/Middle East/Pacific
	WMST	2050	Women and Society	
	WMST	2080 ^x	Anthropology of Gender	
	WMST	3012	Women, Development and Fertility	
	WMST	3210	American Indian Women	
	WMST	3500	Global Gender Issues	
	WMST	3656 ^x	History of Women in Progressive Social Movements	
	WMST	3672 ^x	Gender and Global Economy	
	WMST	3710	Topics in Global Studies	
	WMST	3730 ^x	Third World Women and the Politics of Development	
	WMST	4300 ^x	International Sex Trade	
	WMST	4619	Women in Asian History	
	WMST	4626	History of Women in U.S. since 1890	

University of Colorado at Boulder
Department of Civil, Environmental and Architectural Engineering

**Engineering for Developing Communities Track Enrollment Form
for CVEN Majors**

Name: _____ Student ID: _____
Address: _____
City: _____ State: _____ Zip: _____
Telephone: () - _____ Cum GPA: _____
Email: _____

Academic Advisor: _____
Year you entered CU: _____
Anticipated year of graduation: _____

Did you take GEEN 1400 (Engineering Projects)? Yes No
If "yes," did you take a section that focused on appropriate technology? Yes No Don't remember

Student Signature: _____ Date: _____

EDC Track Coordinator's Signature: _____