

Will you join us!!!!



Wildlife Corridor
Technician

Biodiversity

Energy Management
and
Climate Policy



Environmental
Stewardship
in
Coyote Valley
and
Santa Cruz
Mountains

Environmental
Compliance
and Pollution
Prevention

De Anza College

Environmental Studies Department

Winter 2012 Classes



Our department is located at the Kirsch Center for Environmental Studies at the South East side of the campus.

Sign up for our ES and ESCI classes!

Questions about our classes please contact us at
environmental.studies@deanza.edu

We Offer 5 Degrees and Certificates

Biodiversity Specialist

- Certificate of Achievement
- Certificate of Achievement - Advanced
- AA Degree

Environmental Stewardship

- Certificate of Achievement
- Certificate of Achievement - Advanced
- AA Degree

Wildlife Corridor Technician (WCT)

- Certificate of Achievement
- Certificate of Achievement - Advanced

Environmental Education and Nature Based Learning

- Certificate of Achievement

Environmental Compliance and Pollution Prevention

- Certificate of Achievement
- Certificate of Achievement - Advanced
- AA Degree

Energy Management and Climate Policy

- Certificate of Achievement
- Certificate of Achievement - Advanced
- AA Degree

Come take one of our Classes!

ES 79: Renewable and Alternative Energy Systems 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

An introduction to the potential for renewable and alternative energy systems when adding power generation capacity for a site or large facility. Life-cycle cost comparisons between renewable energy systems and conventional power generation and the added potential of reducing peak power demand will be emphasized. Topics include photovoltaic power systems, wind energy systems, and fuel cells. **(One out-of-class field trip may be required for this course.)** Instructional Material Fee: \$2.00

30943	ES 079-95	5:30PM-08:20PM	T	Gould, Scott	KC239
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ES 079.-95: This Class meets 4 Tuesdays: March 6, 13, 20, and 27th. Field trips may be required for this course.

ES 95: Introduction to Environmental Careers 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

Learn about saving the planet through environmental careers, including ecosystem management, restoration ecology, corridors ecology, energy management technology, environmental stewardship, environmental education, watershed management, environmental law, pollution prevention and more. Opportunities for internships and employment in business, industry, public agencies, academia and nonprofit agencies will be explored. Students will prepare an academic plan for their two- or four-year degree, certificate or workplace

00568	ES 095-63Z	TBA		TBA Cornely, Patricia	KC239
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E S -095.-63Z: **This is a 12 week class.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

31167	ES 095-65Z	TBA		TBA Cornely, Patricia	KC239
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E S -095.-65Z: **This is a 6-week distance learning class. It will start on February 20th to March 26th.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

ES 75: Electric Power Systems 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

An introduction to electric power systems, focusing on distribution components such as transformers, switch-gear, distribution panels, and wiring. Power systems analysis, preventive maintenance, and record keeping techniques will be discussed. Emphasis will be placed on opportunities within a facility's distribution system to save energy, increase equipment life, and reduce unscheduled outages.

(One out-of-class field trip may be required for this course.)

Instructional Material Fee: \$2.00

31162 ES 075-63Z	TBA	TBA Roeder, William	KC239
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E S -075.-63Z: **This is a 12 week class.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

31172 ES 075-65Z	TBA	TBA Roeder, William	KC239
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E S -075.-65Z: **This is a 6-week distance learning class. It will start on February 20th to March 26th.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

ES 78: Energy Management Systems and Controls 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

Describes the most commonly used controls and energy management systems in commercial and institutional applications. Topics will include complex automatic systems for major energy-consuming equipment, as well as simple controls, including time clocks, occupancy sensors, photocells, and programmable thermostats. Computer-based energy management systems, as well as control systems to reduce peak electrical demand will be discussed. **(One out-of-class field trip may be required for this course.)**

Instructional Material Fee: \$2.00

31163 ES 078-63Z	TBA	TBA Roeder, William	KC239
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E S -078.-63Z: **This is a 12 week class.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

31173 ES 078-65Z	TBA	TBA Roeder, William	KC239
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E S -078.-65Z: **This is a 6-week distance learning class. It will start on February 20th to March 26th.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

Environmental Science

ESCI 1: Environmental Science 4 units

(Formerly Environmental Science 51.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture.

An introduction to environmental science as a branch of the sciences and its relation to the scientific field including the scientific method. Review of the principles, concepts and terminology of the environmental sciences and ecological literacy including restoration ecology, landscape ecology, sustainable studies and ecosystem management. Agenda 21 and other environmental indicator tools as they relate to human use of the earth's systems including the hydrosphere, atmosphere, lithosphere and biosphere and the impact on cultural, ethnic and gender groups will be explored. **(One-day field trip outside of scheduled class time may be required for this course.)** Instructional Material Fee: \$4.00

00633	ESCI 001-01	01:30PM - 05:20PM	T	Phillips, Julie	KC112
30386	ESCI 001-02	08:30AM - 10:20AM	TTH	Phillips, Julie	KC115
30944	ESCI 001-03	10:30AM - 12:20PM	TTH	Phillips, Julie	KC115

ESCI 1L: Environmental Science Laboratory 1 unit

(Formerly Environmental Science 51L.)

(See general education pages for the requirement this course meets.)

Corequisite: Environmental Science 1L students must also enroll in, or have completed, Environmental Science 1. Advisory: English Writing 1A or English as a Second Language 5. Three hours laboratory.

An introduction to environmental science as a branch of the sciences including the scientific method and its relation to the scientific field in a laboratory and field setting. Applications of scientific, environmental, ecological and sustainability principles as they relate to human societies will be explored. **Field trips will be required for this class. ESA & ESA1 is located at the Kirsch Center for Environmental Studies.**

Instructional Material Fee: \$4.00

00634	ESCI 001L-01	10:30AM - 01:20PM	W	Staudinger, Jeff	ESA1
30387	ESCI 001L-02	10:30AM - 01:20PM	T	DeToro, Alicia	ESA1
30388	ESCI 001L-03	12:30PM - 03:20PM	TH	DeToro, Alicia	ESA1
30945	ESCI 001L-04	02:30AM - 05:20PM	TH	Staudinger, Jeff	ESA1

ESCI 19: Environmental Biology 5 units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture, three hours laboratory.

An introduction to environmental biology as a branch of the environmental sciences and its relation to the scientific field. Review of the principles of environmental biology, ecology and conservation as they relate to natural resource use, the biodiversity crisis, pollution, human population and the impacts on all cultural, ethnic and gender groups. **(Field trip outside of scheduled class time may be required for this course).** Instructional Material Fee: \$4.0

Field trips are required for this course.

00635	ESCI 019-01	12:30PM - 02:20PM	MW	DeToro, Alicia	KC115
		09:30AM - 12:20PM	M	Williams, Caitlin	KC120
00636	ESCI 019-02	12:30PM - 02:20PM	MW	DeToro, Alicia	KC115
		02:30PM - 05:20PM	M	Williams, Caitlin	KC120
00637	ESCI 019-03	02:30PM - 04:20PM	TTH	Sullivan, Kristin	KC115
		11:30AM - 02:20PM	T	Thorensen, Lynn	KC120
00639	ESCI 019-04	02:30PM - 04:20PM	TTH	Sullivan, Kristin	KC115
		11:30AM - 02:20PM	TH	Sullivan, Kristin	KC120
00641	ESCI 019-05	12:30PM - 02:20PM	TTH	Higgins, Philip	KC115
		02:30PM - 05:20PM	T	Higgins, Philip	KC120
00642	ESCI 019-06	12:30PM - 02:20PM	TTH	Higgins, Philip	KC115
		02:30PM - 05:20PM	TH	Higgins, Philip	KC120
		05:30PM - 07:20PM	MW	Poffenroth, Mary	KC115
00643	ESCI 019-61			Voelkel, Sharene	
		07:30PM - 08:45PM	MW	Poffenroth, Mary	KC120
00644	ESCI 019-62			Voelkel, Sharene	
		05:30PM - 07:20PM	TTH	Cline, Tracy	KC115
		07:30PM - 08:45PM	TTH	Cline, Tracy	KC120
				Voelkel, Sharene	

ES 73: Electric Motors and Drives 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

Examines the opportunities for lowering energy consumption through energy efficient motors and motor controls, including an introduction to the technology of high efficiency motors and variable frequency drives. Techniques to increase current carrying capacity, improve voltage to equipment, reduce power losses, and lower electric bills will be discussed. (One out-of-class field trip may be required for this course.) Instructional Material Fee: \$2.00

30940 ES 073-95	5:30PM-08:20PM	T	Holman, Richard	KC113
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ES 073.-95: This Class meets 4 Tuesdays: February 7, 14, 21, and 28th. Field trips may be required for this course.

ES 74: Lighting Distribution Systems 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

Provides an introduction to the fundamentals of lighting and energy management lighting techniques. Discusses the different types of lighting and day-lighting applications used in commercial and institutional buildings, while describing the quality and quantity of lighting needed for certain applications, measuring efficiency, color rendering, ballasts, etc. Lighting design that provides visual comfort at lower energy costs

31161 ES 074-63Z	TBA	TBA	Roeder, William	KC239
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E S -074.-63Z: **This is a 12 week class.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

31171 ES 074-65Z	TBA	TBA	Roeder, William	KC239
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E S -074.-65Z: **This is a 6-week distance learning class. It will start on February 20th to March 26th.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

ES 71: The Building Envelope 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

An introduction to the building shell as the primary physical component of any facility which controls energy flow between the interior and exterior of the building. The goal is to develop a qualitative and analytical understanding of the thermal performance of major building envelope components. Topics include walls, doors, glazing (windows), roofing and building skin as well as climatic responsive building design. **(One out-of-class field trip may be required for this course.)** Instructional Material Fee: \$2.00

31158	ES 071-63Z	TBA	TBA	Roeder, William	KC239
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E S -071.-63Z: **This is a 12 week class.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

31168	ES 071-65Z	TBA	TBA	Roeder, William	KC239
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E S -071.-65Z: **This is a 6-week distance learning class. It will start on February 20th to March 26th.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

ES 72: Heating, Ventilating and Air Conditioning (HVAC) Systems 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

An introduction to HVAC systems, the systems that provide heating, cooling, humidity control, filtration, and comfort control to facilities. Examines various HVAC systems and their interrelationship with other building systems. Students will consider HVAC technologies that can help facilities managers achieve the goals of lowering energy costs, becoming more environmentally friendly, and enhancing indoor air quality. **(One out-of-class field trip may be required for this course.)** Instructional Material Fee: \$2.00

30939	ES 072-95	05:30PM-08:20PM	T	Holman, Richard	KC113
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ES 072.-95: This Class meets 4 Tuesdays: January 10, 17, 24, and 31st. Field trips may be required for this course.

ESCI 20: Introduction to Biodiversity 5 units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5; Environmental Science 19. Four hours lecture, three hours laboratory. Introduction to biodiversity conservation as a branch of the environmental sciences, conservation biology and related scientific fields. Includes survey of species and ecosystem diversity, elements of biological classification; evolutionary trends and the mechanisms of evolution; ecology and the importance and problems of biodiversity conservation today. Instructional Material Fee: \$4.00

Field trips outside of scheduled class time will be required for this course.

		02:30PM-04:20PM	MW	Jennings, Vicki	KC113
00645	ESCI 020-01	02:30PM-04:20PM	MW	Phillips, Ryan	KC113
		02:30PM-05:20PM	T	Srinivasan, Neela	ESA2

ESCI 21: Biodiversity 2 5 units

Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture, three hours laboratory.

A survey of the California Floristic Province, emphasizing the ways California's biodiversity is sampled and studied. Includes hands-on fieldwork surveying vegetation and animal populations; discussion of societal impacts of biodiversity loss and conservation; and the importance of biodiversity conservation today. **(Off-campus field trips will be required.)** Instructional Material Fee: \$4.00

Field trips outside of scheduled class time will be required for this course.

		11:30AM-01:20PM	TR	Phillips, Ryan	KC239
00646	ESCI 021-01	11:30AM-01:20PM	TR	Andonian, Krikor	KC239
		01:30PM-04:20PM	T	Andonian, Krikor	ESA1

ESCI 53: Wildlife Corridor Technician: Data Collection 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Three hours laboratory.

Explore the data collection techniques, protocol and equipment utilized in wildlife corridor technology. Apply the data collection techniques used in the wildlife corridor discipline to assist in the preservation, protection and restoration of native species and ecosystems. Instructional Material Fee: \$2.00

Field trips outside scheduled class time may be required for this class.

30974	ESCI 053-01	12:30PM-03:20PM	W	Srinivasan, Neela	KC239
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ESCI 55: Wildlife Corridor Technician: Corridor Design 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

Examine the process of wildlife corridor (connectivity) design in the 21st century, incorporating the principles and challenges of corridor ecology, ecosystem (adaptive) management and the urban-wildlife interface. Apply the principles of wildlife corridor design to assist in the preservation, protection and restoration of native species and ecosystems. Instructional Material Fee: \$2.00

Field trips outside scheduled class time may be required for this class.

30975	ESCI 055-01	01:30PM-04:20PM	TH	Phillips, Julie	KC112
	ESCI 055-01	01:30PM-04:20PM	TH	Srinivasan, Neela	KC112

ESCI 57: Wildlife Corridor Technician: Advanced Tracking 2 units

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. Six hours laboratory.

Advanced tracking field studies lab course exploring wildlife movement and activities along the 37th parallel (Santa Cruz Mountains through the Diablo Range). Apply the principles of wildlife corridor technology to assist in the preservation, protection and restoration of native species and ecosystems. Instructional Material Fee: \$2.00

00649	ESCI 057-01L	11:30AM-05:20PM	F	Chirappa-Zucca, Marina	KC201
	ESCI 057-01L	11:30AM-05:20PM	F	Srinivasan, Neela	KC201

ES 70: Introduction to Energy Management 1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

An overview of the field of Energy Management and its importance in today's society, including future implications, and discussion of careers and impact on modern culture and society. This module introduces the whole building concept and related energy and conservation issues including the building envelope, HVAC systems, lighting, energy management and controls and renewable energy technologies. **(One out-of-class field trip may be required for this course.)** Instructional Material Fee: \$2.00

31159	ES 070-63Z	TBA	TBA	Roeder, William	KC239
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E S -070.-63Z: **This is a 12 week class.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

31169	ES 070-65Z	TBA	TBA	Roeder, William	KC239
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E S -070.-65Z: **This is a 6-week distance learning class. It will start on February 20th to March 26th.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

ES 70LX: Energy Management Technology and Principles of Building Performance Laboratory 1 unit

Prerequisite: Environmental Studies 70 (may be taken concurrently).

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263.

Three hours laboratory for each unit of credit (36 hours total for each unit of credit per quarter).

Examines Energy Management Technology and the importance and applications of building performance, controls and monitoring using the Kirsch and campus-wide lab setting. This module introduces building performance tools and equipment, energy audit technology, and an overview of the whole building concept and related energy and conservation strategies. **(Out-of-class field trips will be required for this course.)**

30941	ES 070LX-95	05:30PM-08:20PM	TH	Gould, Scott	KC239
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This mediated learning course is available on video tape. Please report to the SRC, KC224 in the Kirsch Center for Environmental Studies for course greensheet and video tape check-out. Field trips outside of scheduled class time will be required for this course. Please contact Pat Cornely at 408.864.8628, Room KC 218.

ES 66: Environmental Leadership

1 unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture.

Explores the role of environmental leadership in the 21st Century, including development and implementation of leadership skills and models. Apply those leadership skills and models developed to address local environmental case studies.

This six week class meets 6 Tuesdays, February 21st to March 30th.

30998	ES 066-55	03:30PM-05:20PM	T	DeToro, Alicia	KC113
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ES 69: Energy Reliability and Your Organization

1 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273. One hour lecture.

An overview of strategies to assist in preparing an energy management action plan for your organization and staff. The strategies include model board policy, administrative guidelines, assembling an energy management action team, assessing the impact of energy policy on society, and an overview of key stakeholders in the energy field. **(One out-of-class field trip may be required for this course.)**

Instructional Material Fee: \$2.00

31158	ES 069-63Z	TBA		TBA Roeder, William	KC239
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E S -069.-63Z: **This is a 12 week class.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

31168	ES 069-65Z	TBA		TBA Roeder, William	KC239
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E S -069.-65Z: **This is a 6-week distance learning class. It will start on February 20th to March 26th.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

ESCI 82: Central Coast Wildlife Corridors:

Coyote Valley

1 unit

Three hours laboratory for each unit of credit. (Any combination of Environmental Sciences 82, 82X, 82Y and 82Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

An exploration of the Coyote Valley Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.

		08:30AM-11:20AM	F	Phillips, Ryan	KC201
30976	ESCI 082-55	08:30AM-05:20PM	S	Phillips, Ryan	KC201
		08:30AM-05:20PM	S	Phillips, Ryan	KC201

ESCI-082-55: This class meets for 8 weeks beginning the week of January 9. This lab class will survey birds in Coyote Valley and other areas as part of the Wildlife Corridor Technician Program. This class meets the first week at the Kirsch Center and then in Coyote Valley in week two. Two Saturday field trips dates to be confirmed.

ESCI 88: Central Coast Wildlife Corridors:

Santa Cruz Mountains

1 unit

Three hours laboratory for each unit of credit. (Any combination of Environmental Sciences 88, 88X, 88Y and 88Z may be taken up to six times, not to exceed 18 units, as long as the topics are different each time.)

An exploration of the Santa Cruz Mountains Wildlife Corridor as an integral component of the Central Coast Wildlife Corridor Regional Landscape (CCWCRL). This field studies course will emphasize wildlife field identification techniques, animal tracking and bird survey protocols, field observation and data collection. These field studies will assist in the long-term preservation, protection and restoration of native species and ecosystems of the Central Coast Region.

		08:30AM-11:20AM	F	Phillips, Ryan	KC201
30995	ESCI 088-55	08:30AM-05:20PM	S	Phillips, Ryan	KC201
		08:30AM-05:20PM	S	Phillips, Ryan	KC201

ESCI-088-55: This class meets for 8 weeks beginning the week of January 9. This lab class will survey birds in Coyote Valley and other areas as part of the Wildlife Corridor Technician Program. This class meets the first week at the Kirsch Center and then in Santa Cruz Mountains in week two. Two Saturday field trips dates to be confirmed.



Come check out the Wildlife Corridor Project

To learn more about the Wildlife Corridor Project
Check out our website:

www.deanza.edu/es/wildlifecorrproj/index.html

The website includes information about the project,
video about the site we are studying and student
involvement in the project.

ES 62D: ISO 14001: Voluntary Audit 1 unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture.
Explores strategies and procedures utilized in the process of voluntary audits of an ISO 14001 Environmental Management System (EMS) and a Sustainability Management Plan (SMP) by an organization.

00547 ES 062D-63Z TBA TBA Staudinger, Jeffrey KC113

This mediated learning course is available on video tape.
Please report to the SRC, KC224 in the Kirsch Center for Environmental Studies for course greensheet and video tape check-out. Field trips outside of scheduled class time will be required for this course. Please contact Pat Cornely at 408.864.8628, Room KC 218.

ES 64: AB32 (CA Global Warming Solutions Act of 2006) 1 unit

One hour lecture.
An overview of California's Global Warming Solutions Act of 2006, AB 32. The course also includes an overview of strategies to implement this act within an organization and a look at the reduction of greenhouse gas emissions (GHG) by three percent per year.

This six week class meets 6 Thursdays, January 19 to February 23rd.
Field trips may be required for this class.

30942 ES 064-95 05:30PM-07:20PM TH Sullivan, Mark KC113

ES 65: Environmental Stewardship 1 unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture.
Explores the role of environmental citizenship including personal responsibility and participation in local environmental case studies along the 37th parallel. Develop an understanding of environmental stewardship principles, including those of other cultural, ethnic and gender groups, and the use of such practices in establishing

This six week class meets 6 Tuesdays, January 10th to February 14th.

30997 ES 065-55 03:30PM-05:20PM T Cornely, Patricia KC113

ES 62A: Introduction to ISO 14001 1 unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture.

Explores the emerging field of voluntary compliance of environmental regulation including sustainability management plans (SMP), in the U.S. and abroad. Assess ISO 14001, a voluntary environmental standard developed by the International Organization for Standardization (ISO), as a strategy to minimize an organization's environmental impact.

00544 ES 062A-63Z TBA TBA Staudinger, Jeffrey KC113

This mediated learning course is available on video tape. Please report to the SRC, KC224 in the Kirsch Center for Environmental Studies for course greensheet and video tape check-out. Field trips outside of scheduled class time will be required for this course. Please contact Pat Cornely at 408.864.8628, Room KC 218.

ES 62B: ISO 14001: Environmental Systems (EMS) 1 unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture.

The next step in ISO 14001 implementation is the development of an Environmental Management System (EMS) and Sustainability Management Plans (SMP). Explore a step-by-step approach, using a consensus-based model, to develop an ISO 14001 EMS and SMP.

00545 ES 062B-63Z TBA TBA Staudinger, Jeffrey KC113

This mediated learning course is available on video tape. Please report to the SRC, KC224 in the Kirsch Center for Environmental Studies for course greensheet and video tape check-out. Field trips outside of scheduled class time will be required for this course. Please contact Pat Cornely at 408.864.8628, Room KC 218.

ES 62C: ISO 14001: Integration of an EMS Plan 1 unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture.

Explores strategies and principles in the adoption, implementation and integration of an ISO 14001 Environmental Management System (EMS) and Sustainability Management Plan (SMP) for an organization including both internal and external stakeholders in environmental management.

00546 ES 062C-63Z TBA TBA Staudinger, Jeffrey KC113

This mediated learning course is available on video tape. Please report to the SRC, KC224 in the Kirsch Center for Environmental Studies for course greensheet and video tape check-out. Field trips outside of scheduled class time will be required for this course. Please contact Pat Cornely at 408.864.8628, Room KC 218.

Come take one of our Pollution Prevention Classes!!

Classes being offered this
quarter are:

ES 061A
ES 64

Come take one of our Energy Management Classes!!



Check out our new
class being offered
this quarter.

ES 070LX

Check out more of our
Environmental Studies Classes

Environmental Studies

ES 1: Introduction to Environmental Studies 4 units

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture.

An interdisciplinary study of the use of the earth's natural resources by human civilizations, past and present, and the role that economics, ethics, law, history, politics, culture and gender inequity have played in resource use and distribution. **(One field trip may be required outside of class time.)**

00526	ES 001-01	10:30AM-12:20PM	MW	DeToro, Alicia	KC115
00528	ES 001-02	12:30PM-02:20PM	MW	Cornely, Patricia	KC112
00530	ES 001-03	02:30PM-04:20PM	MW	Poffenroth, Mary	KC115
30359	ES 001-04	10:30AM-12:20PM	TTH	Staudinger, Jeff	KC113
00536	ES 001-61	05:30PM-09:20PM	W	Clark, Jana	KC239

30360	ES 001-63Z	TBA	TBA	Cornely, Patricia	KC239
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E S -001.-63Z: **This is a 12 week class.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

31166	ES 001-65Z	TBA	TBA	Cornely, Patricia	KC239
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E S -001.-65Z: **This is a 6-week distance learning class. It will start on February 20th to March 26th.** Video delivered course with online component and required on-campus exam. Available video-streamed to the desktop (high-speed internet connection required). Students must have access to a computer, the Web and an individual email address. For more information go to: <http://www.deanza.edu/distance/>

ES 2: Humans, the Environment and Sustainability 4 units

Formerly Environmental Studies 52.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture.

A study of human evolution, biology and ecology, including human civilizations, past and present, and the interaction with the environment. Environmental worldviews (ethics), past and present, of the various cultural, ethnic, gender and socioeconomic groups will be explored. **(One field trip may be required**

outside of class time.) Instructional Material Fee: \$4.00

00538	ES 002-01S	10:30AM-12:20PM	MW	Sullivan, Kristin	KC113
30934	ES 002-02S	05:30PM-07:20PM	T	Sullivan, Kristin	KC115

E S -002.-01S/02S: Field trips outside of schedule of schedule time will be required for this course. Community Service Learning requires students to complete 12 hours as part of this course. This class engages students in service to the community and contributes to the development of community and civic responsibility. www.deanza.edu/communityengagement

ES 3: Imagery of the Environment 4 units

(Formerly Environmental Studies 53.)

(See general education pages for the requirement this course meets.)

Advisory: English Writing 1A or English as a Second Language 5. Four hours lecture.

An introduction to the academic discipline of Environmental Studies through historical and contemporary analysis of nature-based imagery. What those representations indicate about past and present environmental changes will be discussed. Roles of the artist as naturalist, scientist and conservationist will be explored, as well as visual representation by a diverse range of cultural groups. **Field trips outside of scheduled class time will be required for this course**

Instructional Material Fee: \$4.00

00539	ES 003-01	10:30AM-12:20PM	MW	Jennings, Vicki	KC239
00540	ES 003-02	02:30PM-04:20PM	TTH	Jennings, Vicki	KC239
30937	ES 003-03	11:30AM-01:20PM	TTH	Jennings, Vicki	KC239

ES 58: Introduction to Green Building 1 unit

Advisory: English Writing 200 and Reading 200 (or Language Arts 200), or English as a Second Language 261, 262 and 263. One hour lecture.

An overview of strategies to implement a green building project within your organization. The strategies include model green building policy and guidelines including LEED (Leadership in Energy and Environmental Design), assembling a green team, assessing the impact of construction and buildings on society, and an overview of key stakeholders in the construction field.

Class meets one weekend, Saturday, March 10th and Sunday, March 11th.

30938	ES 058-55	10:30AM-04:20PM	S	Deppen, Dave	KC115
		10:30AM-04:20PM	U	Deppen, Dave	KC115

ES 61A: Environmental Protection and Pollution Prevention with Emphasis on Local and Regional Communities 4 unit

Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273; Environmental Studies 6 (may be taken concurrently). Four hours lecture.

Explores environmental protection and pollution prevention with emphasis on local and regional communities. Topics discussed will include agency missions and guiding principles, agency philosophies, and agency contacts. Agencies participating include Cal/OSHA, County Toxics Enforcement, EPA, Bay Area Air Quality Management District. Environmental impacts on cultural, ethnic, and gender groups will be discussed. Instructional Material Fee: \$4.00.

Field trips outside of class may be required for this course.

00543	ES 061A-61	05:30PM-09:20PM	M	Staudinger, Jeffrey	KC113
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