

# Program Level Outcome Assessment Plan

Department: Environmental Studies

Division: BHES

Program/Certificate/Degree: Environmental Education and Nature-based Learning

Number of authors/participants: 3                      Contact Person: Julie Phillips

**Instructions:** For each program level outcome in this program indicate in which year you will collect course assessment data. To facilitate this, if using embedded assessments, list courses to assess for assessment of this PLO. During a five-year period, it is assumed that all outcomes will have been assessed. Comprehensive Review is scheduled for Spring 2014.

**Name as DEPT\_PLO\_ProgramName.xls                      Submit as e-mail attachment to outcomes@deanza.edu**

Program Level Outcome Assessment Plan					
2010-11					
Program Level Outcomes	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
Students will investigate and communicate the relationship between environmental education, nature-based learning, ecosystems thinking, ecological literacy, stewardship, leadership and team building and environmental protection and stewardship of the Earth's natural resources.	ES 96Z				Fall 2013
	ES 98Z				Spring 2014

# Program Level Outcome Assessment Plan

Department: Environmental Studies

Division: BHES

Program/Certificate/Degree: Biodiversity Specialist

Number of authors/participants: 3 Contact Person: Julie Phillips

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Program Level Outcome Assessment Plan					
2010-11					
Program Level Outcomes	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
Students will utilize scientific and ecological principles to evaluate genetic, species, and ecosystem biodiversity, and causes of biodiversity loss, and ways to conserve biodiversity.	ESCI 20			Fall 2012	
Apply the above concepts and techniques to local and statewide biodiversity case studies to develop strategies in creating and implementing community-based, collaborative efforts to preserve, protect, and restore native species, ecosystems and the landscape.	ESCI 21			Winter 2013	
Demonstrate the ability to communicate the relationship between values, skills, environmental education, and environmental careers in order to play a role in futhering a more sustainable and biologically diverse world.	ESCI 30			Spring 2013	

# Program Level Outcome Assessment Plan

Department: Environmental Studies \_\_\_\_\_

Division: BHES \_\_\_\_\_

Program/Certificate/Degree: \_\_Energy Management\_\_\_\_\_

Number of authors/participants: \_\_3\_\_\_\_\_ Contact Person: \_\_Julie Phillips\_\_\_\_\_

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Program Level Outcome Assessment Plan					
2010-11					
Program Level Outcomes	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
Students will investigate and communicate the relationships between energy management / climate policy and ethical justice principles, ecological principles and evaluate the role of energy management in fostering a sustainable society.	ES 69			Fall 2012	
	ES 70			Fall 2012	
Students will demonstrate an understanding of energy management principles, laws of thermodynamics, effective design of energy systems and a sustainable society utilizing energy management systems.	ES 71				Fall 2013
	ES 78				Spring 2014
Apply the above concepts and techniques to statewide case studies to develop strategies and implement effective energy management systems.	ES 70LX				Winter 2014
	ES 79LX				Spring 2014
Identify and interact with the key stakeholders in energy management / climate policy including the public, government and resource agencies, and industry, nonprofits and others to enhance global, cultural, social and environmental wellbeing.	ES 64				Winter 2014

**DE ANZA COLLEGE**  
**Student Learning Outcomes (SLOs) Assessment Report**  
**Mapping Program Level Outcomes to Institutional Core Competencies**

**Program/Certificate/Degree Name:**

Energy Management and Climate Policy

**Date:**

4/15/11

**Division (if applicable):**

BHES

**Program Contact Person:**

Julie Phillips

**Phone:**

864-8644

See instructions for ICCs reference numbers "Expanded ICCs" tab below. Every program will need an individual sheet. Attach additional pages as necessary.

Name as DEPT_PLO_ProgramName.xls		Submit as e-mail attachment to <a href="mailto:outcomes@deanza.edu">outcomes@deanza.edu</a>			
ICC Number #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
2C	Students will investigate and communicate the relationships between energy management / climate policy and ethic justice principles, ecological principles and evaluate the role of energy management in fostering a sustainable society.	Evaluation of project based learning in majors courses.			
5E & 5I	Students will demonstrate an understanding of energy management principles, laws of thermodynamics, effective design of energy system and a sustainable society utilizing energy management systems.	Evaluation of project based learning in majors courses.			
5I & 5L	Apply the above concepts and techniques to statewide case studies to develop strategies and implement effective energy management systems.	Evaluation of project based learning in majors courses.			
1D	Identify and interact with the key stakeholders in energy management / climate policy including the public, government and resource agencies, and industry, nonprofits and others to enhance global, cultural, social and environmental wellbeing.				

ICC 1: Communication and expression  
 ICC 2: Information literacy

ICC 3: Physical/mental wellness and personal responsibility  
 ICC 4: Global, cultural, social and environmental awareness

ICC 4 Critical thinking

# Program Level Outcome Assessment Plan

Department: Environmental Studies \_\_\_\_\_

Division: BHES \_\_\_\_\_

Program/Certificate/Degree: \_Environmental Compliance and Pollution Prevention \_\_\_\_\_

Number of authors/participants: \_\_\_\_3\_\_\_\_ Contact Person: \_\_\_\_Julie Phillips\_\_\_\_\_

**Instructions:** For each program level outcome in this program indicate in which year you will collect course assessment data. To facilitate this, if using embedded assessments, list courses to assess for assessment of this PLO. During a five-year period, it is assumed that all outcomes will have been assessed. Comprehensive Review is scheduled for Spring 2014.

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Program Level Outcome Assessment Plan					
2010-11					
	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
<b>Program Level Outcomes</b>					
Students will investigate and communicate the relationships between environmental law, protection, and pollution prevention and apply the knowledge gained to environmental solutions.	ES 6		Fall 2011		
Students will apply the above concepts and techniques to communicate and critically evaluate the relationship between laws, history, values, stakeholders, and strategies to assist in implementing environmental solutions through the use of data analysis, targets, and timetables.	ES 61A		Winter 2012		
	ES 61B		Spring 2012		
Identify and interact with the key stakeholders in environmental compliance, pollution prevention, and environmental health and justice including the public, government and resource agencies, agriculture, and industry, nonprofits and others to enhance global, cultural, social and environmental well being.	ES 50			Winter 2013	
	ES 56			Spring 2013	

# Program Level Outcome Assessment Plan

Department: Environmental Studies

Division: BHES

Program/Certificate/Degree: Environmental Stewardship

Number of authors/participants: 3 Contact Person: Julie Phillips

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Program Level Outcome Assessment Plan					
2010-11					
Program Level Outcomes	Courses to be assessed (eg PE21, PE22)	2010-11	2011-12	2012-13	2013-14
Students will investigate the practice and technology of wildlife corridors (connectivity or linking landscapes).	ESCI 50			Fall 2012	
Students will utilize the environmental science and ecological terminology concepts and principles of corridor ecology, landscape ecology, and ecosystem (adaptive) management as braches of the sciences and the rapid assessment methodology (RAM) developed at De Anza College.	ESCI 55			Winter 2013	
Examine the local wildlife and core corridor areas utilized by wildlife species encountered in the field.	ESCI 57			Winter 2013	
Examine the data analysis equipment and processes used in wildlife corridor technology in the field.	ESCI 54				Winter 2014
	ESCI 53				Fall 2013
Apply the corridor ecology and connectivity concepts and techniques (including the rapid assessment methodology) to local and statewide corridor case studies to develop strategies in creating and implementing community based, collaborative efforts to preserve, protect, and restore native species, ecosystems, and the landscape.	ESCI 55				Winter 2014
	ESCI 58				Spring 2014
Demonstrate the ability to communicate with key stakeholders the relationship between corridor ecology/connectivity and the public good with government and resource agencies, agriculture and industry, the public, nonprofits and others to enhance gobal, cultural, social and environmental wellbeing.	ESCI 82X				Spring 2014
	ESCI 88X				Spring 2014