

INDUSTRY AND TECHNOLOGY
Institutional (ILO), Program (PLO), and Course (SLO) Alignment

Program: Environmental Technology	Number of Courses: 4	Date Updated: 09.18.2014	Submitted by: SueEllen Warren, ext. 4519 Renee Newell, ext. 3308
--	--------------------------------	------------------------------------	---

ILOs	1. Critical Thinking <i>Students apply critical, creative and analytical skills to identify and solve problems, analyze information, synthesize and evaluate ideas, and transform existing ideas into new forms.</i>	2. Communication <i>Students effectively communicate with and respond to varied audiences in written, spoken or signed, and artistic forms.</i>	3. Community and Personal Development <i>Students are productive and engaged members of society, demonstrating personal responsibility, and community and social awareness through their engagement in campus programs and services.</i>	4. Information Literacy <i>Students determine an information need and use various media and formats to develop a research strategy and locate, evaluate, document, and use information to accomplish a specific purpose. Students demonstrate an understanding of the legal, social, and ethical aspects related to information use.</i>
-------------	--	---	--	--

SLO-PLO-ILO ALIGNMENT NOTES:

Mark boxes with an 'X' if: SLO/PLO is a major focus or an important part of the course/program; direct instruction or some direct instruction is provided; students are evaluated multiple times (and possibly in various ways) throughout the course or are evaluated on the concepts once or twice within the course.

DO NOT mark with an 'X' if: SLO/PLO is a minor focus of the course/program and some instruction is given in the area but students are not formally evaluated on the concepts; or if the SLO/PLO is minimally or not at all part of the course/program.

PLOs	PLO to ILO Alignment <i>(Mark with an X)</i>			
	1	2	3	4
PLO #1 Understanding Environmental Challenges The successful student will gain an appreciable understanding of the factors that have led to the environmental challenges we face today. The student will gain the necessary skills to discern, analyze data from various sources, and be able to formulate knowledgeable opinions that can lead to multiple solutions with varying criteria sets.				X
PLO #2 Sustainable Urban Environment The student will be able to identify and analyze systems for improvement, and discuss the various issues concerning urban infrastructure and the systems that allow our urban environment to function and thrive in a sustainable and resilient manner.				X
PLO #3 Green Building Techniques & Materials The student will gain a “hands on” understanding of the various methods of construction and application specifically relating to existing and emerging alternative and green building technologies and materials. This knowledge base can lead to jobs and careers in multiple areas, including architecture, construction, mechanical system development, automobile technology, fashion, real estate development and various fields in agriculture.	X			
PLO #4 Landscape Site Plans The student will be able to develop landscape based site plans dealing with environmental and green building code compliance, and develop planting and irrigation plans that can lead to the successful building of sustainable and regenerative landscapes and building sites.		X		

SLOs	SLO to PLO Alignment <i>(Mark with an X)</i>				COURSE to ILO Alignment <i>*FOR OFFICE USE ONLY*</i>			
	P1	P2	P3	P4	1	2	3	4
ET 101 Theory and Relevancy of Global Environmental Awareness: SLO #1 Environmental Current Events Given instruction in the processes of environmental research, the student engages in class discussion regarding environmentally driven current events from a regional to a global perspective.	X							
ET 101 Theory and Relevancy of Global Environmental Awareness: SLO #2 Writing about Sustainability From attendance and participation in class discussion, and further research outside of class, the student will be able to develop an argumentative and position-driven paper concerning an environmental and/or sustainable issue.	X							X
ET 101 Theory and Relevancy of Global Environmental Awareness: SLO #3 Ten-Page Research Paper After participating in class discussion and writing a number of topic papers, the student will continue to develop a much deeper knowledge base of one of the previously chosen topics of sustainability and environmental awareness and craft a ten-page research paper on that topic.		X						
ET 102 Sustainable Energy and Renewable Building Sciences and Technologies: SLO #1 Sustainability Systems Models & Diagrams Given instruction in the sustainable systems that make up an urban environment, the student will create models and diagrams on the processes of how these systems react to one another and work together on a macro and/or regional scale.		X						
ET 102 Sustainable Energy and Renewable Building Sciences and Technologies: SLO #2 Leadership in Energy and Environmental Design (LEED) Given instruction in the system of LEED rating, a student will evaluate the design process to incorporate as many of the LEED principles into the design project of the course.			X		X			X
ET 102 Sustainable Energy and Renewable Building Sciences and Technologies: SLO #3 Residential Home Design Given instructions in the systems that make up many of the sustainable building components, including LEED and/or other rating systems, a student will design an environmentally friendly building site and incorporate the various systems into a residential home.			X					

SLOs	SLO to PLO Alignment <i>(Mark with an X)</i>				COURSE to ILO Alignment <i>*FOR OFFICE USE ONLY*</i>			
	P1	P2	P3	P4	1	2	3	4
ET 103 Environmental Technology Materials and Methodologies: SLO #1 Applied Technologies Given instruction in the current and emerging alternative applied technologies of building and infrastructural systems, processes and equipment, the student will design and develop a project that utilizes the same.		X			X			X
ET 103 Environmental Technology Materials and Methodologies: SLO #2 Residential or Commercial Building Design Given instructions in the applied technologies that make up many of the sustainable building components, specifically to include LEED and/or other rating systems, a student will design and specify the equipment for an environmentally friendly and energy efficient building site and incorporate the various technology into a residential home and or commercial building type.			X					
ET 103 Environmental Technology Materials and Methodologies: SLO #3 Rating System Certification Exam Prep Given instruction in LEED and other rating systems, the student will gain the necessary knowledge to be prepared to sit for the various trade-associated examinations for the various rating systems.			X					
ET 165 Sustainable and Regenerative Practices in Site and Landscape Development: SLO #1 Small Scale Residential/Commercial Site Given instruction in green building technology and design development principles that are specific to site and landscape development, the student will design and develop a small scale residential and a commercial site using specific criteria taught in class.	X				X	X		X
ET 103 Environmental Technology Materials and Methodologies: SLO #2 Regional Area or Commercial Site Design Given instruction in green building technology and design development principles that are specific to site and landscape development, the student will design and develop a large regional area and or a large commercial site using specific criteria and strategies taught in class.				X				
ET 103 Environmental Technology Materials and Methodologies: SLO #3 Sustainable Site & Landscape Design After receiving instruction in the principles of sustainable landscape and site development, successful students will gain the knowledge base of what is required to develop and design a sustainable site and landscape, and that information can then be used to obtain the necessary approvals from various agencies or municipalities to obtain permits.				X				