Environmental Science Program Curriculum Map

Program SLO	CHEM 112/112L	CHEM 113/113L	CHEM 232/232L	CHEM 233/233L	CHEM 370/370L	CHEM 340	BIOL 141/142	BIOL 371	BIOL 379	Major Electives	NSCI 201	ESCI 440/441	ESCI 480/481	ESCI 493/494	other
1. Environmental Science majors will have a sound knowledge of both chemistry and biology, and the biological and chemical aspects of environmental science.	ab	ab	ab	ab	ab	af	ab	ab	ab	ab	a	j	k		
2. Environmental science majors will know how to apply critical thinking to the analysis and devising of possible solutions to conservation problems, sustainability issues, and environmental problems.						a	b	ab	abe	ab	a	j	k	b	
3. Environmental Science majors will have an appreciation of the social and economic implications of environmental science.											a				a
4. Environmental Science majors have a sound knowledge of sustainability and how science can contribute to sustainable development.					b			a				j			a
5. Environmental Science majors will be proficient in the recording, analysis, and dissemination of data utilizing modern techniques, instrumentation and software.	bde g	bde g	bde g	bde g	bde g		bde	bde	abe	abe				bde	
6. Environmental Science majors will be well prepared to succeed in employment in the public and private sector, to continue their education in environmental science, related fields, environmental education, and environmental law.	h	h	h	h	h		abe f	abe f	abe	abe f	a		k	bde f	i

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Methods of Assessment: (b, d-h only pertain to lab courses; a only pertains to lecture)

a = Performance on examination questions in that discipline.
b = Execution of laboratory experiments and completion of laboratory report.
c = Completion of written thesis and oral defense summarizing independent research project.
d = Recording of experimental results (notebooks, datasheets, etc.) with data to support reasonable conclusion.
e = Accurate records, interpretations and reports of data obtained from laboratory experiments.
f = Proper citations of literature references and correct attributions to the work of others.
g = Proper selection, use and disposal of chemical reagents in laboratory settings.
h = Application of recognized safety principles in introductory laboratory settings as indicated on grading rubrics.
i = Post-graduate surveys
j = Performance on presentations in that discipline
k = Performance on evaluation by outside evaluator