2016-2017 Annual Assessment Report Template

For instructions and guidelines visit our <u>website</u> or <u>contact us</u> for more help.

Please begin by selecting your program name in the drop down. If the program name is not

	listed, please enter it below:	
	Select Program OR	
	BS Environmental Studies	
	BS Environmental Studies	
	stion 1: Program Learning Outcomes	
l .1. nich	of the following Program Learning Outcomes (PLOs), Sac State Baccalaureate Learning Goals (BLGs), and	
	dened Graduate Learning Goals (GLGs) did you assess? [Check all that apply]	
	Critical Thinking	
	2. Information Literacy	
	3. Written Communication	
	4. Oral Communication	
A .	5. Quantitative Literacy	
	5. Inquiry and Analysis	
7	7. Creative Thinking	
8 5	3. Reading	
J 9	9. Team Work	
1	10. Problem Solving	
_ 1	1. Civic Knowledge and Engagement	
1	2. Intercultural Knowledge, Competency, and Perspectives	
1	13. Ethical Reasoning	
1	4. Foundations and Skills for Lifelong Learning	
	5. Global Learning and Perspectives	
1	16. Integrative and Applied Learning	
1	17. Overall Competencies for GE Knowledge	
1	18. Overall Disciplinary Knowledge	
1	19. Professionalism	
2	20. Other, specify any assessed PLOs not included above:	

Q1.2.

Please provide more detailed background information about **EACH PLO** you checked above and other information including how your specific PLOs are **explicitly** linked to the Sac State **BLGs/GLGs**:

Q1.2.1.
Do you have rubrics for your PLOs?
1. Yes, for all PLOs
2. Yes, but for some PLOs
3. No rubrics for PLOs
○ 4. N/A
5. Other, specify:
Q1.3.
Are your PLOs closely aligned with the mission of the university? 1. Yes
2. No
3. Don't know
J. Duit know
Q1.4.
Is your program externally accredited (other than through WASC Senior College and University Commission (WSCUC))?
1. Yes
2. No (skip to Q1.5)
3. Don't know (skip to Q1.5)
Q1.4.1.
If the answer to Q1.4 is yes , are your PLOs closely aligned with the mission/goals/outcomes of the accreditation agency?
1. Yes
○ 2. No
○ 3. Don't know
Q1.5.
Did your program use the Degree Qualification Profile ("DQP", see http://degreeprofile.org) to develop your
PLO(s)? 1. Yes
2. No, but I know what the DQP is3. No, I don't know what the DQP is
4. Don't know
4. DOITE KNOW
Q1.6.
Did you use action verbs to make each PLO measurable?
1. Yes
② 2. No
3. Don't know
(Remember: Save your progress)
Question 2: Standard of Performance for the Selected PLO
Q2.1.
Select OR type in ONE(1) PLO here as an example to illustrate how you conducted assessment (be sure you <i>checked the</i>

correct box for this PLO in Q1.1):
Select PLO

Ability to	carry c	out resea	rch tasks appropriate to analyzing environmental problems
Q2.1.1. Please prov	vide m	ore back	ground information about the specific PLO you've chosen in Q2.1.
includes hy and resear	pothes ch that	sis-drive t address	sess a student's ability to conduct original research. Original research, in the context of the PLO, in research intended to answer a specific question through generation and analysis of data, ses an existing problem or question through literature evaluation, integration, and development of and solutions to the problem (e.g., through meta-analysis).
1. Ye	s on't kno	·	ed or adopted explicit standards of performance for this PLO?
Q2.3. Please pro appendix.	vide t	he rubri	c(s) and standards of performance that you have developed for this PLO here or in the
See attac	hed re	<u>eport</u>	
			ses the four elements (question, testing, interpretation, integration) – 15% sees three of the four elements – 25%
2 – Answe	r expre	esses two	o of four elements – 45%
1 – Answe	r focus	ses on lin	nited aspects of science or are circular (e.g., science is using the scientific method) – 15%
No file	attach	ned 🗓	No file attached
	Q2.5. Stdrd	Q2.6. Rubric	Please indicate where you have published the PLO , the standard of performance, and the rubric that was used to measure the PLO:
•			1. In SOME course syllabi/assignments in the program that address the PLO
			2. In ALL course syllabi/assignments in the program that address the PLO
•			3. In the student handbook/advising handbook
			4. In the university catalogue
			5. On the academic unit website or in newsletters
•		•	6. In the assessment or program review reports, plans, resources, or activities
•			7. In new course proposal forms in the department/college/university
•			8. In the department/college/university's strategic plans and other planning documents
			9. In the department/college/university's budget plans and other resource allocation documents
			10. Other, specify:

and the property of the projects of the proje	Q3.1.	
2. No (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 3. 1.1. 10ov many assessment tools/methods/measures in total did you use to assess this PLO? 1. Yes 2. No (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 3. Don't know (skip to Q3.7) 3. Lon't know (skip to Q		selected PLO?
3. Don't know (skip to Q6) 4. N/A (skip to Q6) 33.1.1. 1. How many assessment tools/methods/measures in total did you use to assess this PLO? 33.2. 33.2. 33.2. 33.2. 33.2. 33.3. 34. Nas the data scored/evaluated for this PLO? 1. Yes 2. No (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 23.2.1. 23.2. 23.2. 23.2. 23.2. 23.2. 23.2. 23.2. 23.2. 23.2. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 24. 25. Experiences (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 23.3. 24. 25. Experiences (e.g. theses, senior theses), courses, or experiences 26. Key assignments from required classes in the program 37. 38. Experiences (e.g. theses, senior theses), courses, or experiences 28. Key assignments from required classes in the program 39. 30. Rey assignments from required classes in the program 30. 31. 41. Classroom based performance assessments such as internships or other community-based projects 42. Classroom based performance assessments such as internships or other community-based projects 43. Experiences 44. Classroom based performance assessments such as internships or other community-based projects 45. External performance assessments such as internships or other community-based projects 46. E-Portfolios		
4. N/A (skip to Q6) Q3.1.1. dow many assessment tools/methods/measures in total did you use to assess this PLO? 1. Yes 2. No (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) Q3.2.1. Q3.2. Q3.2.1. Q4. N/A (skip to Q6) Q5.2. Q6. See your progress) Q6. See your progress Q7. Q8.2. Q8.2. Q8.2. Q9. See your progress Q9. See you		
Q3.1.1. 10to many assessment tools/methods/measures in total did you use to assess this PLO? 103.2. 203.2. 203.2. 203.3. 203.4. 203.5. 203.2. 203.3. 204. 205. 205. 205. 206. 207. 2		
iow many assessment tools/methods/measures in total did you use to assess this PLO? 23.2. Was the data scored/evaluated for this PLO? 2. No (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 23.2.1. Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. [Remember: Save your progress] Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) 23.3. (In yes) 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) 3. Don't know (skip to Q3.7) 33.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply] 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessments such as simulations, comprehensive exams, or critiques 5. External performance assessments such as intermships or other community-based projects 6. E-Portfolios	4. N/A (SKIP to QO)	
Q3.2. Was the data scored/evaluated for this PLO? ① 1. Yes ② 2. No (skip to Q6) ③ 3. Don't know (skip to Q6) ④ 4. N/A (skip to Q6) Q3.2.1. Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. (Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? ① 1. Yes ② 2. No (skip to Q3.7) ③ 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply] ② 1. Capstone project (e.g. theses, senior theses), courses, or experiences ② 2. Key assignments from required classes in the program ③ 3. Key assignments from elective classes ④ 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques ⑤ 5. External performance assessments such as intermships or other community-based projects ⑤ 6. E-Portfolios	Q3.1.1.	
Was the data scored/evaluated for this PLO? 1. Yes 2. No (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 23.2.1. Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. (Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) 23.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) 33.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? (Check all that apply) 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios		total did you use to assess this PLO?
 № 1. Yes 1. Yes 2. No (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) Q3.2.1. Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) 33.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) 33.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from required classes 4. Classroom based performance assessment such as internships or other community-based projects 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios 	1	
 1. Yes 2. No (skip to Q6) 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 4. N/A (skip to Q6) Q3.2.1. Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as internships or other community-based projects 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios 	Q3.2.	
2. No (skip to Q6) 3. Don't know (skip to Q6) 4. NyA (skip to Q6) Q3.2.1. Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. (Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? Q1. Yes Q2. No (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply Q3.3.1. Which of the following direct measures (hey assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply Q3.3.1. Check all that apply Q4. Capstone project (e.g. theses, senior theses), courses, or experiences Q5. Every assignments from required classes in the program Q6. EPortfolios		
 3. Don't know (skip to Q6) 4. N/A (skip to Q6) 4. N/A (skip to Q6) Q3.2.1. Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Q3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? (Check all that apply) 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios 		
Q3.2.1. Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. (Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? (Check all that apply) 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios		
Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected: Data were collected as responses to surveys by ENVS undergraduates. (Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) 33.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) 3. Don't know (skip to Q3.7) 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from required classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios		
Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) 3.3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) 3. Don't know (skip to Q3.7) 3. Alter direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as internships or other community-based projects 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios	4. Ny A (SKIP to QU)	
Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) 3.3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) 3. Don't know (skip to Q3.7) 3. Alter direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as internships or other community-based projects 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios		
Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Were direct measures (key assignments, projects, portfolios, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from required classes 4. Classroom based performance assessments such as internships or other community-based projects 6. E-Portfolios	-	data for the colocted DLO. For example, in what course(s) or by what
(Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Q3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios		data for the selected PLO. For example, in what course(s) or by what
(Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply] 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios		
Question 3A: Direct Measures (key assignments, projects, portfolios, etc.) Q3.3. Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios	Data were collected as responses to surveys by EN	IVS undergraduates.
Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO? 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? [Check all that apply] 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios	Data were collected as responses to surveys by EN	IVS undergraduates.
1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? [Check all that apply] 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios	(Remember: Save your progress)	
 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? [Check all that apply] 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios 	(Remember: Save your progress) Question 3A: Direct Measures (k	key assignments, projects, portfolios, etc.)
Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? [Check all that apply] 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios	(Remember: Save your progress) Question 3A: Direct Measures (kg) Q3.3. Were direct measures (key assignments, projects,	key assignments, projects, portfolios, etc.)
Q3.3.1. Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? [Check all that apply] 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios	(Remember: Save your progress) Question 3A: Direct Measures (kg. 23.3.) Were direct measures (key assignments, projects, 1. Yes	key assignments, projects, portfolios, etc.)
Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? Check all that apply 1. Capstone project (e.g. theses, senior theses), courses, or experiences 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios	(Remember: Save your progress) Question 3A: Direct Measures (kg. 3.3.) Were direct measures (key assignments, projects, 1. Yes 2. No (skip to Q3.7)	key assignments, projects, portfolios, etc.)
 2. Key assignments from required classes in the program 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios 	(Remember: Save your progress) Question 3A: Direct Measures (kg. 3.3.) Were direct measures (key assignments, projects, 1. Yes 2. No (skip to Q3.7)	key assignments, projects, portfolios, etc.)
 3. Key assignments from elective classes 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios 	(Remember: Save your progress) Question 3A: Direct Measures (keg) Q3.3. Were direct measures (keg) assignments, projects, 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (keg) assign	(ey assignments, projects, portfolios, etc.) portfolios, course work, student tests, etc.) used to assess this PLO?
 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios 	(Remember: Save your progress) Question 3A: Direct Measures (keg) Q3.3. Were direct measures (keg) assignments, projects, 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (keg) assign [Check all that apply]	xey assignments, projects, portfolios, etc.) portfolios, course work, student tests, etc.) used to assess this PLO? ments, projects, portfolios, course work, student tests, etc.) were used?
 4. Classroom based performance assessment such as simulations, comprehensive exams, or critiques 5. External performance assessments such as internships or other community-based projects 6. E-Portfolios 	(Remember: Save your progress) Question 3A: Direct Measures (kg) Q3.3. Were direct measures (key assignments, projects, 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assign [Check all that apply] 1. Capstone project (e.g. theses, senior these	xey assignments, projects, portfolios, etc.) portfolios, course work, student tests, etc.) used to assess this PLO? ments, projects, portfolios, course work, student tests, etc.) were used? es), courses, or experiences
5. External performance assessments such as internships or other community-based projects 6. E-Portfolios	(Remember: Save your progress) Question 3A: Direct Measures (keg) Q3.3. Were direct measures (keg) assignments, projects, 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (keg) assign (Check all that apply) 1. Capstone project (e.g. theses, senior these 2. Keg) assignments from required classes in the control of the senior these 2.	xey assignments, projects, portfolios, etc.) portfolios, course work, student tests, etc.) used to assess this PLO? ments, projects, portfolios, course work, student tests, etc.) were used? es), courses, or experiences
6. E-Portfolios	(Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, Q3.3. Were direct measures (key assignments, projects, 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assign Check all that apply) 1. Capstone project (e.g. theses, senior these 2. Key assignments from required classes in the 3. Key assignments from elective classes	portfolios, course work, student tests, etc.) used to assess this PLO? ments, projects, portfolios, course work, student tests, etc.) were used? es), courses, or experiences the program
	(Remember: Save your progress) Question 3A: Direct Measures (Region 2) Q3.3. Were direct measures (key assignments, projects, 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assign [Check all that apply] 1. Capstone project (e.g. theses, senior these 2. Key assignments from required classes in the 3. Key assignments from elective classes 4. Classroom based performance assessment	portfolios, course work, student tests, etc.) used to assess this PLO? ments, projects, portfolios, course work, student tests, etc.) were used? es), courses, or experiences the program such as simulations, comprehensive exams, or critiques
— /1 Galot 1 (1010)	(Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, Q3.3. Were direct measures (key assignments, projects, 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assign [Check all that apply] 1. Capstone project (e.g. theses, senior these 2. Key assignments from required classes in the 3. Key assignments from elective classes 4. Classroom based performance assessment 5. External performance assessments such as	portfolios, course work, student tests, etc.) used to assess this PLO? ments, projects, portfolios, course work, student tests, etc.) were used? es), courses, or experiences the program such as simulations, comprehensive exams, or critiques
8. Other, specify:	(Remember: Save your progress) Question 3A: Direct Measures (key assignments, projects, Q3.3. Were direct measures (key assignments, projects, 1. Yes 2. No (skip to Q3.7) 3. Don't know (skip to Q3.7) Q3.3.1. Which of the following direct measures (key assign Check all that apply) 1. Capstone project (e.g. theses, senior these 2. Key assignments from required classes in the 3. Key assignments from elective classes 4. Classroom based performance assessment 5. External performance assessments such as 6. E-Portfolios	portfolios, course work, student tests, etc.) used to assess this PLO? ments, projects, portfolios, course work, student tests, etc.) were used? es), courses, or experiences the program such as simulations, comprehensive exams, or critiques

Q3.3.2. Please **provide** the direct measure (key assignments, projects, portfolios, course work, student tests, etc.) you used to collect data, THEN **explain** how it assesses the PLO:

∅ No file attached∅ No file attached
Q3.4.
What tool was used to evaluate the data?
 1. No rubric is used to interpret the evidence (skip to Q3.4.4.) 2. Used rubric developed/modified by the faculty who teaches the class (skip to Q3.4.2.)
3. Used rubric developed/modified by a group of faculty (skip to Q3.4.2.)
4. Used rubric pilot-tested and refined by a group of faculty (skip to Q3.4.2.)
5. The VALUE rubric(s) (skip to Q3.4.2.)
6. Modified VALUE rubric(s) (skip to Q3.4.2.)
7. Used other means (Answer Q3.4.1.)
Q3.4.1. If you used other means, which of the following measures was used? [Check all that apply]
1. National disciplinary exams or state/professional licensure exams (skip to Q3.4.4.)
2. General knowledge and skills measures (e.g. CLA, ETS PP, etc.) (skip to Q3.4.4.)
3. Other standardized knowledge and skill exams (e.g. ETC, GRE, etc.) (skip to Q3.4.4.)
4. Other, specify: (skip to Q3.4.4.)
Q3.4.2. Was the rubric aligned directly and explicitly with the PLO?
O 1. Yes
2. No
3. Don't know
○ 4. N/A
Q3.4.3. Was the direct measure (e.g. assignment, thesis, etc.) aligned directly and explicitly with the rubric?
1. Yes
② 2. No
3. Don't know
○ 4. N/A
Q3.4.4.
Was the direct measure (e.g. assignment, thesis, etc.) aligned directly and explicitly with the PLO ?
O 1. Yes
O 2. No
3. Don't know
○ 4. N/A
Q3.5.
How many faculty members participated in planning the assessment data collection of the selected PLO?

Q3.5.1. How many faculty members participated in the evaluation of the assessment data for the selected PLO?
Q3.5.2. If the data was evaluated by multiple scorers, was there a norming process (a procedure to make sure everyone was scoring similarly)? 1. Yes 2. No
3. Don't know
○ 4. N/A
Q3.6. How did you select the sample of student work (papers, projects, portfolios, etc.)?
Students who had completed one or more of three research-based courses - ENVS 120, ENVS 121, ENVS 130
Q3.6.1. How did you decide how many samples of student work to review?
All students enrolled in the courses
Q3.6.2.
How many students were in the class or program?
Q3.6.3. How many samples of student work did you evaluated?
Q3.6.4. Was the sample size of student work for the direct measure adequate?
1. Yes
② 2. No
3. Don't know

(Remember: Save your progress)

Question 3B: Indirect Measures (surveys, focus groups, interviews, etc.)
Q3.7. Were indirect measures used to assess the PLO? ■ 1. Yes □ 2. No (skip to Q3.8) □ 3. Don't Know (skip to Q3.8)
 Q3.7.1. Which of the following indirect measures were used? [Check all that apply] 1. National student surveys (e.g. NSSE) 2. University conducted student surveys (e.g. OIR) ✓ 3. College/department/program student surveys or focus groups 4. Alumni surveys, focus groups, or interviews 5. Employer surveys, focus groups, or interviews 6. Advisory board surveys, focus groups, or interviews 7. Other, specify:
Please explain and attach the indirect measure you used to collect data: Surveys of students enrolled in two, research-based, ENVS courses were surveyed (see attached report)
ENVS program assessment - research skills.docx 95.4 KB
Q3.7.2.
If surveys were used, how was the sample size decided?
It was based on the class size (all students in specified classes participated)
Q3.7.3.
If surveys were used, how did you select your sample:
All students in specified classes participated.

If surveys were used, what was the response rate?
Question 3C: Other Measures (external benchmarking, licensing exams, standardized tests, etc.)
Q3.8. Were external benchmarking data, such as licensing exams or standardized tests, used to assess the PLO? 1. Yes 2. No (skip to Q3.8.2) 3. Don't Know (skip to Q3.8.2)
Q3.8.1. Which of the following measures was used? [Check all that apply] 1. National disciplinary exams or state/professional licensure exams 2. General knowledge and skills measures (e.g. CLA, ETS PP, etc.) 3. Other standardized knowledge and skill exams (e.g. ETC, GRE, etc.) 4. Other, specify:
Q3.8.2. Were other measures used to assess the PLO? 1. Yes 2. No (skip to Q4.1) 3. Don't know (skip to Q4.1)
Q3.8.3. If other measures were used, please specify:
■ No file attached■ No file attached(Remember: Save your progress)
Question 4: Data, Findings, and Conclusions Q4.1. Please provide simple tables and/or graphs to summarize the assessment data, findings, and conclusions for the selected PLO
in Q2.1 : see attached report

ENVS program assessment - research skills.docx 95.4 KB	No file attached
Q4.2. Are students doing well and meeting the program staperformance of the selected PLO?	andard? If not, how will the program work to improve student
	es to improving research skills in the curriculum. ENVS has also to encourage undergraduate research and revision of curricula to
No file attached No file attached	
Q4.3. For the selected PLO, the student performance: 1. Exceeded expectation/standard 2. Met expectation/standard 3. Partially met expectation/standard 4. Did not meet expectation/standard 5. No expectation/standard has been specified 6. Don't know	
Question 4A: Alignment and Qual	ity
Q4.4. Did the data, including the direct measures, from all PLO? 1. Yes 2. No 3. Don't know	the different assessment tools/measures/methods directly align with the
Q4.5. Were all the assessment tools/measures/methods the 1. Yes 2. No 3. Don't know	nat were used good measures of the PLO?
Question 5: Use of Assessment D	ata (Closing the Loop)
Q5.1. As a result of the assessment effort and based on pr program (e.g. course structure, course content, or m 1. Yes 2. No (skip to Q5.2) 3. Don't know (skip to Q5.2)	rior feedback from OAPA, do you anticipate <i>making any changes</i> for your lodification of PLOs)?
05.1.1	

Q5.1.1. Please describe *what changes* you plan to make in your program as a result of your assessment of this PLO. Include a description of how you plan to assess the impact of these changes.

Q5.1.2. Do you have a plan to assess the <i>impact of the changes</i> that you 1. Yes	anticipate	making?			
2. No					
3. Don't know					
25.2.	-	1 2		1 4	
Since your last assessment report, how have the assessment lata from then been used so far?	1. Very Much	2. Quite a Bit	3. Some	4. Not at All	5. N/A
. Improving specific courses			•	0	
. Modifying curriculum					
. Improving advising and mentoring			•		
. Revising learning outcomes/goals					
. Revising rubrics and/or expectations					
. Developing/updating assessment plan					
. Annual assessment reports					0
. Program review					0
Prospective student and family information					
0. Alumni communication					
1. WSCUC accreditation (regional accreditation)					
2. Program accreditation					
3. External accountability reporting requirement					
4. Trustee/Governing Board deliberations					
5. Strategic planning			•		
6. Institutional benchmarking					
7. Academic policy development or modifications					
8. Institutional improvement					
9. Resource allocation and budgeting					
0. New faculty hiring					
20. New faculty hiring 21. Professional development for faculty and staff					

Please provide a detailed example of how you used the assessment data above:

We plan to review our PLOs to ensure that they are measurable.

Q5.3. To what extent did you apply last year's feedback from the Office of Academic Program Assessment in the following areas?	1. Very Much	2. Quite a bit	3. Some	4. Not at All	5. N/A
1. Program Learning Outcomes		0	0		
2. Standards of Performance		0			•
3. Measures	0	0	0		•
4. Rubrics	0	0	0	0	•
5. Alignment		0		0	•
5. Data Collection		0		0	•
7. Data Analysis and Presentation	0	0	•		0
B. Use of Assessment Data	0	0			•
9. Other, please specify:		0			0
Q5.3.1. Please share with us an example of how you applied last year's feed in any of the areas above:	lback from				Assess
Q5.3.1. Please share with us an example of how you applied last year's feed in any of the areas above:	lback from				Assess
Q5.3.1. Please share with us an example of how you applied last year's feed in any of the areas above: We attempted to include more information in the assessment template the second of the area of	lback from				Assess

1. Critical Thinking	
2. Information Literacy	
3. Written Communication	
4. Oral Communication	
5. Quantitative Literacy	
6. Inquiry and Analysis	
7. Creative Thinking	
8. Reading	
9. Team Work	
10. Problem Solving	
11. Civic Knowledge and Engagement	
12. Intercultural Knowledge, Competency, and Perspectives	
13. Ethical Reasoning	
14. Foundations and Skills for Lifelong Learning	
15. Global Learning and Perspectives	
16. Integrative and Applied Learning	
17. Overall Competencies for GE Knowledge	
18. Overall Disciplinary Knowledge	
19. Professionalism	
20. Other, specify any 1203 list included above.	
a. Ability to assess environmental problems and solutions by applying economic and political concepts	
b. C.	
Q8. Please attach any additional files here:	
No file attached No file attached No file attached No file attached	
09.1	
Q8.1. Have you attached any files to this form? If yes, please list every attached file here:	
yes	
Survey, evaluation rubric, and outcome evaluation.	
Program Information (Required)	
Program:	
BS Environmental Studies	
(If you typed your program name at the beginning, please skip to Q10)	
Q9.	
Program/Concentration Name: [skip if program name appears above]	
Select Program	
Q10.	
Report Author(s): J.A. Foran	

J.A. Foran
Q10.2.
Assessment Coordinator:
J.A. Foran
Q11.
Department/Division/Program of Academic Unit
Environ. Studies
Q12. College:
College of Social Sciences & Interdisciplinary Studies
Q13.
Total enrollment for Academic Unit during assessment semester (see Departmental Fact Book):
200
Q14.
Program Type:
1. Undergraduate baccalaureate major
2. Credential
3. Master's Degree
4. Doctorate (Ph.D./Ed.D./Ed.S./D.P.T./etc.)
5. Other, specify:
Q15. Number of undergraduate degree programs the academic unit has?
1
Q15.1. List all the names:
BS in Environmental Studies (not included in the list for Q 9)
BA in Environmental Studies - no longer being used in the curriculum
Q15.2. How many concentrations appear on the diploma for this undergraduate program?
Q16. Number of master's degree programs the academic unit has?
0
Q16.1. List all the names:

Q16.2. How many concentrations appear on the diploma for this master's program?

N/A

Q17.1. List all the names:								
Q17.1. List all the hames.								
Q18. Number of doctorate degree pro	ograms the	academic	unit has?					
0								
Q18.1. List all the names:								
Q15.1. List all the hames.								
When was your assessment plan	1.	2.	3.	4.	5.	6.	7.	8.
When was your assessment plan	1. Before	2. 2012-13	3. 2013-14	4. 2014-15	5. 2015-16	6. 2016-17	7. No Plan	8. Don't
	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	
Q19. developed?	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
When was your assessment plan Q19. developed? Q19.1. last updated?	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't
Q19. developed? Q19.1. last updated?	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed?	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular 1. Yes	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular 1. Yes 2. No	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular 1. Yes 2. No 3. Don't know	Before 2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular 1. Yes 2. No 3. Don't know	Before 2011-12 ssessment cx um map?	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular 1. Yes 2. No 3. Don't know Q20.1. Please obtain and attach your latest curricular Q10.1.	Before 2011-12 ssessment cx um map?	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular 1. Yes 2. No 3. Don't know	Before 2011-12 ssessment cx um map?	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as a second s	Before 2011-12 ssessment cx um map?	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular 1. Yes 2. No 3. Don't know Q20.1. Please obtain and attach your latest curicular No file attached Q21.	Before 2011-12 ssessment cx um map?	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as a second s	Before 2011-12 ssessment cx um map?	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know
Q19. developed? Q19.1. last updated? Q19.2. (REQUIRED) Please obtain and attach your latest as ENVS Assessment Plan - 2016.dog 84.86 KB Q20. Has your program developed a curricular 1. Yes 2. No 3. Don't know Q20.1. Please obtain and attach your latest curricular No file attached Q21. Has your program indicated in the curricular	Before 2011-12 ssessment cx um map?	2012-13	2013-14	2014-15	2015-16	2016-17	No Plan	Don't know

	1. Yes, indicate	ENVS 190 - Senior Thesis
	2. No	
	3. Don't know	
222 Does		have any capstone project?
	1. Yes	
	2. No	
	3. Don't know	

(Remember: Save your progress)

ver. 5.15/17

Evaluation of Student Perceptions of Research Skills and of Student Understanding of Essential Elements of Scientific Inquiry

A. ENVS students were asked to respond to questions 1-9 by indicating they strongly agree (SA), agree (A), disagree (D), strongly disagree (SD). Percent responses follow each question. N = 25.

1. I am confident in my ability to construct a testable hypothesis.

2. I am confident that I could design controls for an experiment.

3. I feel confident communicating the results of an experiment to a group of my peers.

4. I feel confident communicating the results of an experiment to a group of scientific experts, e.g., my professors and other scientists.

5. I am confident in my ability to do research with others.

6. I am confident in my ability to interpret data from an experiment.

7. I am confident in my ability to write a clear and succinct scientific paper.

8. I am confident in my ability to read and analyze scientific papers.

9. I am confident in my ability to understand graphs and tables in scientific papers.

B. ENVS students were asked to respond to the following:

What do you think it means to 'think like a scientist'?

Name some qualities of a good scientist.

What does it mean to you to 'do real science'?

An evaluation rubric was established for student answers based on the extent to which answers incorporated the essential elements of scientific inquiry: A question, a sound way to test the question, a sound interpretation of the data, integration of the results with existing research.

Rubric and Response

- 4 Answer clearly expresses the four elements (question, testing, interpretation, integration) 15%
- 3 Answer clearly expresses three of the four elements 25%
- 2 Answer expresses two of four elements 45%
- 1 Answer focuses on limited aspects of science or are circular (e.g., science is using the scientific method) 15%

Evaluation

Nearly all ENVS students who completed the survey were either confident or very confident in their abilities to conduct and communicate research. However, less than half (40%) of student answers to the three questions expressed three or four of the critical elements while 60% of answers contained two or fewer elements, or contained illogical or circular statements. We conclude that students are generally confident of their abilities to conduct and communicate research, but some students may not fully understand the essential elements of scientific inquiry.

Assessment Plan for the Next Review Cycle

A five-year plan for program assessment has been developed and includes an approach for departmental assessment efforts (per PRM II.2.3), assessment strategies, ENVS learning outcomes to be assessed, and attention to questions such as whether and how capstone courses and other core courses can be used appropriately for assessment (Table 2.3). The Department of Environmental Studies developed its Program Learning Objectives in 2006/2007, and of eight objectives, four were identified as key outcomes in the 2010-11 assessment:

Ability to write and speak clearly and persuasively

Ability to assess environmental problems and solutions by applying scientific concepts

Ability to carry out research tasks appropriate to analyzing environmental problems

Ability to assess environmental problems and solutions by applying economic and political concepts

Ability to integrate knowledge, research, and interpretation with substantially greater sophistication than commonly expected in coursework.

ENVS student abilities to write clearly and persuasively were assessed quantitatively during AY 15/16. The remaining four Program Learning Objectives will be assessed over the next five years (Table 2.3).

Table 2.3. A comprehensive assessment plan for all the programs in the next program review cycle for ENVS BS/BA degrees.

		A degrees.		I					
Program Learning Goal	Corresponding Program Learning Outcomes (PLOs). (Each must directly relate to one or more Program Goals)	In which course(s) will the PLO(s) be assessed?	In which year will the PLO(s) be assessed and how often?	What types of assessment activities ¹ will be used to collect the data?	What types of tools ² will be used to score/evaluate the activity? Who will develop/modify the tool and/or evaluated the activities?	How will the data be collected? By whom?	How will the data be reported ³ (both aggregated and disaggregated), and by whom? What will be the standard of performance?	Who will analyze the data?	How will the data be used? By whom?
I.	Ability to write clearly and persuasively	ENVS 112, ENVS 190	AY 15/16	Student theses, course-based writing assignments	Rubric-based analysis of writing proficiency. External consultant	Analysis of writing - conducted by external consultant	aggregated/disaggregated Report prepared by external consultant, presented to faculty. 70% of students leave the curriculum proficient or highly proficient in each category	External consultant	Presented to faculty. Used to modify courses/pedagogy as necessary
II.	Ability to carry out research tasks appropriate to analyzing environmental problems	ENVS 121, ENVS 130, ENVS 190 (other courses with integrated research opportunities)	AY 16/17	Evaluation of student research skills in conjunction with SIRIUS/CUREs assessment process	Student surveys, self and directed analyses, evaluation of research products	In class via surveys. Collected by course faculty.	Survey and student response results. Quantitative analysis of survey data in conjunction with SIRIUS 755 of students are able to understand and apply basic research design, analyses, and text appropriate hypotheses.	Faculty	By faculty to improve incorporation of research opportunities into existing courses
III.	Ability to assess environmental problems and solutions by applying scientific concepts	ENVS 120, 121, 130, 144, 147, 149, 151, 158, 163	AY 17/18	Student performance, survey tools	Surveys and self-and course-based analyses	In class, collected by faculty	Quantitative analysis of survey data in conjunction with SIRIUS. Other objective measures. 75% of students capable of applying scientific concepts to assess and solve environmental problems	Faculty	By faculty to improve coursework and pedagogy, as well as experiential learning opportunities
IV.	Ability to assess environmental problems and solutions by applying economic and political concepts	All ENVS upper division courses	AY 18/19	We will seek external, professional guidance to develop the approach to this assessment	TBD	TBD	TBD	Faculty	75% of students are able to apply economic and political concepts to assess and solve environmental problems
V	Ability to integrate knowledge, research, and interpretation with substantially greater sophistication than commonly expected in coursework	Selected ENVS upper division courses	AY 19/20	TBE - We will seek external professional guidance to develop the approach to this assessment	TBD	TBD	TBD	Faculty	75% of students are able to effectively integrate knowledge, research, and interpretation