NECHE Inventory of Educational Effectiveness Indicators Undergraduate Programs (Department of Environment, Society, and Sustainability – 2022-2023)

Degree	(1)	(2)	(3)	(4)	(5)	(6)
Granting	List ONLY the	For each learning	What were the	Who interprets the	What	Date of most recent
Granning	program learning	objective listed in	results/outcomes/findings/conclusion(s)	evidence? Describe	changes/improvements	program review
Program	objective(s)	column (1), other	of the assessment?	the process	have been made as a	
Name	assessed during the	than GPA, what	Explain results/findings/conclusions for	(e.g. annually by	result of using the	
1 vanne	current reporting	data/ evidence was	each program learning objective listed	the curriculum	data/evidence (3)?	
	period	used to determine	in column (1)	committee).	Link discussion in this	
	•	that graduates have		,	column with a	
		achieved the stated			learning objective (1)	
		objectives? (e.g.,			and the results of	
		capstone			assessing that	
		assignment,			objective (3)	
		portfolio review,			5 ()	
		licensure				
		examination)				
Environment,	<u>PLO 2 – Field &</u>	PLO2 - ENVS 101	PLO2 – ENVS 101 – Introduction to	The assessment	Members of both the	The Department of
Society &	research methods	- Introduction to	Environmental Science and Policy	committee of the	Department of	Environment, Society
Sustainability	Appropriately use a	Environmental	The Value rubric for critical thinking	Department of	Environment, Society	& Sustainability was
	variety of tools and	Science and Policy	was used to assess artifacts from ENVS	Environment,	& Sustainability and	formed by merging
	resources to	Term paper	101. The rubric is presented in	Society &	the department's	the Department of
	independently		Appendix A. This rubric contains five	Sustainability	assessment committee	Geography and the
	integrate	<u>PLO4 – ENVS 451</u>	sections including:	collected the	would like to develop	Department of
	laboratory, field,	- Environmental	1. Explanation of Issues	assessment artifacts	prompts/artifacts that	Physics and Earth
	and literature data	Science and Policy	2. Evidence	from ENVS 101	could be collected for	Sciences at the
	to support a thesis.	Capstone - Part 1	3. Influence of Context &	and ENVS 451	an individual program	beginning of the Fall
		Capstone	Assumptions	during the 2022-	learning objective at	2021. The new
	PLO 4 – Critical	research	4. Student's Position	2023 academic	the appropriate 100-	department/program
	<u>Thinking</u>	proposal	5. Conclusions & Related Outcomes	year. During the	level class, 200 - level	has not yet
	Think critically			course of Summer	class, 300 – level	undergone a program
	about		The assessment results for each section	2023 the artifacts	class, and 400 – level	review.
	environmental,		are presented in tabular format in	were independently	class. This will, in	
	societal, and		Appendix A. The assessed values	assessed by	part, redress issues	
	sustainability		presented in the tables should be	members of the	with cognitive leaps in	
	challenges at local,		interpreted as:	assessment	the curriculum.	
	national, regional,		0 – Failed to meet minimum standards	committee using		
	and global spatial		1 – Benchmark	the appropriate		
	scales.		2 – Milestone	Value rubric. The		
			3 – Milestone	results were then		
			4 - Capstone	compiled and		

analysis was used to assess artifacts were presented to from ENVS 451. The rubric is the entire presented in Appendix B. The rubric Department of contains six sections including: Environment, 1. Topic selection Society, and 2. Existing Knowledge, Research, and/or Views September 3. Design Process department 4. Analysis meeting. 5. Conclusions Elimitations and Implications 6. Limitations and Implications meeting. 7. The assessment results for each section are presented in tabular format in Appendix B. The assessed values presented in the tables should be interpreted as: 0 – Failed to meet minimum standards 1. Benchmark 2 – Milestone 3 – Milestone	<u>PLO4 – ENVS 451 – Environmental</u> <u>Science and Policy Capstone – Part 1</u> The Value rubric for inquiry and	tables illustrating the results were created. The assessment results	
contains six sections including:Environment, Society, and1.Topic selectionSustainability at the Sustainability at the September3.Design Processdepartment4.Analysismeeting.5.Conclusionsmeeting.6.Limitations and Implicationsmeeting.The assessment results for each section are presented in tabular format in Appendix B. The assessed values presented in tabular format in Appendix B. The assessed values presented in the tables should be interpreted as: 0 - Failed to meet minimum standards 1 - Benchmark 2 - Milestone 3 - MilestoneMilestone 4 - Capstone	from ENVS 451. The rubric is presented in Appendix B. The rubric	the entire Department of	
2. Existing Knowledge, Research, and/or Views Sustainability at the September 3. Design Process department 4. Analysis meeting. 5. Conclusions 6. 6. Limitations and Implications meeting. The assessment results for each section are presented in tabular format in Appendix B. The assessed values presented in the tables should be interpreted as: 0 0. Failed to meet minimum standards 1 1. Benchmark 2 2. Milestone 3 3. Milestone 4.	 Contains six sections including: Topic selection 	Environment, Society, and	
4. Analysis meeting. 5. Conclusions 6. Limitations and Implications The assessment results for each section are presented in tabular format in Appendix B. The assessed values presented in the tables should be interpreted as: 0 – Failed to meet minimum standards 0 – Failed to meet minimum standards 1 – Benchmark 2 – Milestone 3 – Milestone 4 - Capstone 4 – Capstone	 Existing Knowledge, Research, and/or Views Design Process 	Sustainability at the September department	
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	The assessment results for each section are presented in tabular format in Appendix B. The assessed values presented in the tables should be interpreted as: 0 – Failed to meet minimum standards 1 – Benchmark 2 – Milestone 3 – Milestone 4 - Capstone		

NECHE Indicators of Educational Effectiveness

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- irst Name:	*George	Last Name:	* Bentley
Sanner ID:	* 300931774	Email [.]	* chentlev@framingham edu
	000001111		goontoy@nannignam.oda
lease seleo	t the reporting period this assessment/ac	creditation work was	completed:
2022-2023		\checkmark	
lease selec	t the type of program you completed asse	ssment/accreditation	work for this reporting period:
Vote: If chang	ying your initial selection, please refresh this pa	age prior to making a ne	w selection.
Undergradua	ate Program	\checkmark	
	t the program you completed assessment	for during this ropor	ing period:
			ang penou.
Environmen	al, Society, and Sustainability	\checkmark	
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FRAMINGHAM

UNIVERSITY

STATE

Attach any additional documents (data or survey summaries, charts, graphs etc.) that support your

results/findings/conclusions (optional):

NECHE Inventory of Educational Effectiveness Indicators - ESS - Final.pdf

For the first program learning objective assessed what changes/improvements have been made as a result of using the data/evidence?

Members of both the Department of Environment, Society & Sustainability and the department's assessment committee would like to develop prompts/artifacts that could be collected for an individual program learning objective at the appropriate 100-level class, 200 – level class, 300 – level class, and 400 – level class. This will, in part, redress issues with cognitive leaps in the curriculum.

Did you assess any additional program learning objectives during this reporting period?

- * Yes
- $\odot \ \text{No}$

List the second program learning objective assessed during this reporting period:

PLO 4 - Critical Thinking. Think critically about environmental, societal, and sustainability challenges at local, national, regional,

For the second program learning objective assessed, other than GPA, what data/evidence was used to assess student learning? (e.g. capstone assignment, portfolio review, licensure examination)

ENVS 451– Environmental Science and Policy Capstone – Part 1

Capstone research proposal

For the second program learning objective assessed what were the results/outcomes/findings/conclusion(s)?

ENVS 451 – Environmental Science and Policy Capstone – Part 1

The Value rubric for inquiry and analysis was used to assess artifacts from ENVS 451. The rubric is presented in Appendix B. The rubric contains six sections including:

- 1. Topic selection
- 2. Existing Knowledge, Research, and/or Views
- 3. Design Process
- 4. Analysis
- 5. Conclusions
- 6. Limitations and Implications

The assessment results for each section are presented in tabular format in Appendix B. The assessed values presented in the tables should be interpreted as:

- 0 Failed to meet minimum standards
- 1 Benchmark
- 2 Milestone
- 3 Milestone
- 4 Capstone

Attach any additional documents (data or survey summaries, charts, graphs etc.) that support your results/findings/conclusions (optional):

NECHE Inventory of Educational Effectiveness Indicators - ESS - Final.pdf

For the second program learning objective assessed what changes/improvements have been made as a result of using the data/evidence?

Members of both the Department of Environment, Society & Sustainability and the department's assessment committee would like to develop prompts/artifacts that could be collected for an individual program learning objective at the appropriate 100-level class, 200 – level class, 300 – level class, and 400 – level class. This will, in part, redress issues with cognitive leaps in the curriculum.

Who interprets the results/findings of the assessment? Describe the process (e.g. annually by the curriculum committee).

The assessment committee of the Department of Environment, Society & Sustainability collected the assessment artifacts from ENVS 101 and ENVS 451 during the 2022-2023 academic year. During the course of Summer 2023 the artifacts were independently assessed by members of the assessment committee using the appropriate Value rubric. The results were then compiled and tables illustrating the results were created. The assessment results were presented to the entire Department of Environment, Society, and

Sustainability at the September department meeting.

Assessment Activities

Please list the assessment activities (other than the assessment of program learning objectives) completed during this reporting period (assessment plans, rubrics etc.).

Assessment plans Rubrics

Please attach the related documents produced as a result of the activities listed in above (mandatory if funding is requested for this work):

Funding

Are you seeking funding for assessment work completed in this report? You can request a maximum of \$2,000 for this reporting period.

* Yes

No

Program Information

Enter the year of the most recent program review. If the program is new, enter the upcoming program review year or enter TBD (to be determined).

TBD

Insert the URL of the web page where Program Learning Objectives for this program are published: NECHE requires this as part of being transparent to stakeholders.

* N/A

Signatures

<u>Heorge Bentley</u> Submitter Signature

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11/15/2023 Date

Office of Institutional Assessment

Office of Institutional Assessment Only

NECHE Inventory of Educational Effectiveness Indicators Undergraduate Programs (Department of Environment, Society, and Sustainability – 2022-2023)

Appendix A



CRITICAL THINKING VALUE RUBRIC (PLO4) For more information, please contact value@aacu.org



RUBRICS

The VALUE rubrics were developed by teams of faculty experts representing colleges and universities across the United States through a process that examined many existing campus rubrics and related documents for each learning outcome and incorporated additional feedback from faculty. The rubrics articulate fundamental criteria for each learning outcome, with performance descriptors demonstrating progressively more sophisticated levels of attainment. The rubrics are intended for institutional-level use in evaluating and discussing student learning, not for grading. The core expectations articulated in all 16 of the VALUE rubrics can and should be translated into the language of individual campuses, disciplines, and even courses. The utility of the VALUE rubrics is to position learning at all undergraduate levels within a basic framework of expectations such that evidence of learning can by shared nationally through a common dialog and understanding of student success.

Definition

Critical thinking is a habit of mind characterized by the comprehensive exploration of issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.

Framing Language

This rubric is designed to be transdisciplinary, reflecting the recognition that success in all disciplines requires habits of inquiry and analysis that share common attributes. Further, research suggests that successful critical thinkers from all disciplines increasingly need to be able to apply those habits in various and changing situations encountered in all walks of life.

This rubric is designed for use with many different types of assignments and the suggestions here are not an exhaustive list of possibilities. Critical thinking can be demonstrated in assignments that require students to complete analyses of text, data, or issues. Assignments that cut across presentation mode might be especially useful in some fields. If insight into the process components of critical thinking (e.g., how information sources were evaluated regardless of whether they were included in the product) is important, assignments focused on student reflection might be especially illuminating.

Glossary

The definitions that follow were developed to clarify terms and concepts used in this rubric only.

• **Ambiguity:** Information that may be interpreted in more than one way.

• **Assumptions:** Ideas, conditions, or beliefs (often implicit or unstated) that are "taken for granted or accepted as true without proof" (Dictionary.com, 2009, para. 1; www.dictionary.reference.com/browse/assumptions).

- **Context:** The historical, ethical. political, cultural, environmental, or circumstantial settings or conditions that influence and complicate the consideration of any issues, ideas, artifacts, and events.
- **Literal meaning:** Interpretation of information exactly as stated. For example, "she was green with envy" would be interpreted to mean that her skin was green.

• **Metaphor:** Information that is (intended to be) interpreted in a non-literal way. For example, "she was green with envy" is intended to convey an intensity of emotion, not a skin color.



CRITICAL THINKING VALUE RUBRIC (PLO4)

For more information, please contact value@aacu.org



RUBRICS

Artifact – ENVS 101 Introduction to Environmental Science and Policy – Term Paper

	Capstone	Mil	estones	Benchmark	
	4	3	2	1	
Explanation of Issues	Issue/problem to be considered critically is stated clearly and described comprehensively, delivering all relevant information necessary for full understanding.	Issue/problem to be considered critically is stated, described, and clarified so that understanding is not seriously impeded by omissions.	Issue/problem to be considered critically is stated but description leaves some terms undefined, ambiguities unexplored, boundaries undetermined, and/or backgrounds unknown.	Issue/problem to be considered critically is stated without clarification or description.	
Evidence Selecting and using information to investigate a point of view or conclusion	Information is taken from source(s) with enough interpretation/evaluation to develop a comprehensive analysis or synthesis. Viewpoints of experts are questioned thoroughly.	Information is taken from source(s) with enough interpretation / evaluation to develop a coherent analysis or synthesis. Viewpoints of experts are subject to questioning.	Information is taken from source(s) with some interpretation/evaluation, but not enough to develop a coherent analysis or synthesis. Viewpoints of experts are taken as mostly fact, with little questioning.	Information is taken from source(s) without any interpretation/evaluation. Viewpoints of experts are taken as fact, without question.	
Influence of Context and Assumptions	Thoroughly (systematically and methodically) analyzes own and others' assumptions and carefully evaluates the relevance of contexts when presenting a position.	Identifies own and others' assumptions and several relevant contexts when presenting a position.	Questions some assumptions. Identifies several relevant contexts when presenting a position. May be more aware of others' assumptions than one's own (or vice versa).	Shows an emerging awareness of present assumptions (sometimes labels assertions as assumptions). Begins to identify some contexts when presenting a position.	
Student's Position (perspective, thesis/hypothesis)	Specific position (perspective, thesis/hypothesis) is imaginative, taking into account the complexities of an issue. Limits of position (perspective, thesis/ hypothesis) are acknowledged. Others' points of view are synthesized within position (perspective, thesis/hypothesis).	Specific position (perspective, thesis/hypothesis) takes into account the complexities of an issue. Others' points of view are acknowledged within position (perspective, thesis/hypothesis).	Specific position (perspective, thesis/hypothesis) acknowledges different sides of an issue.	Specific position (perspective, thesis/hypothesis) is stated but is simplistic and obvious.	
Conclusions and Related Outcomes (implications and consequences)	Conclusions and related outcomes (consequences and implications) are logical and reflect student's informed evaluation and ability to place evidence and perspectives discussed in priority order.	Conclusion is logically tied to a range of information, including opposing viewpoints; related outcomes (consequences and implications) are identified clearly.	Conclusion is logically tied to information (because information is chosen to fit the desired conclusion); some related outcomes (consequences and implications) are identified clearly.	Conclusion is inconsistently tied to some of the information discussed; related outcomes (consequences and implications) are oversimplified.	











NECHE Inventory of Educational Effectiveness Indicators Undergraduate Programs (Department of Environment, Society, and Sustainability – 2022-2023)

Appendix B



INQUIRY AND ANALYSIS VALUE RUBRIC (PLO2) For more information, please contact value@aacu.org



RUBRICS

The VALUE rubrics were developed by teams of faculty experts representing colleges and universities across the United States through a process that examined many existing campus rubrics and related documents for each learning outcome and incorporated additional feedback from faculty. The rubrics articulate fundamental criteria for each learning outcome, with performance descriptors demonstrating progressively more sophisticated levels of attainment. The rubrics are intended for institutional-level use in evaluating and discussing student learning, not for grading. The core expectations articulated in all 16 of the VALUE rubrics can and should be translated into the language of individual campuses, disciplines, and even courses. The utility of the VALUE rubrics is to position learning at all undergraduate levels within a basic framework of expectations such that evidence of learning can by shared nationally through a common dialog and understanding of student success.

Definition

Inquiry is a systematic process of exploring issues, objects, or works through the collection and analysis of evidence that results in informed conclusions or judgments. Analysis is the process of breaking complex topics or issues into parts to gain a better understanding of them.

Framing Language

This rubric is designed for use in a wide variety of disciplines. Since the terminology and process of inquiry are discipline-specific, an effort has been made to use broad language which reflects multiple approaches and assignments while addressing the fundamental elements of sound inquiry and analysis (including topic selection, existing, knowledge, design, analysis, etc.). The rubric language assumes that the inquiry and analysis process carried out by the student is appropriate for the discipline required. For example, if analysis using statistical methods is appropriate for the discipline, then a student would be expected to use an appropriate statistical methodology for that analysis. If a student does not use a discipline-appropriate process for any criterion, that work should receive a performance rating of "1" or "0" for that criterion.

In addition, this rubric addresses the **products** of analysis and inquiry, not the **processes** themselves. The complexity of inquiry and analysis tasks is determined in part by how much information or guidance is provided to a student and how much the student constructs. The more the student constructs, the more complex the inquiry process. For this reason, while the rubric can be used if the assignments or purposes for work are unknown, it will work most effectively when those are known. Finally, faculty are encouraged to adapt the essence and language of each rubric criterion to the disciplinary or interdisciplinary context to which it is applied.

Glossary

The definitions that follow were developed to clarify terms and concepts used in this rubric only.

- **Conclusions:** A synthesis of key findings drawn from research/evidence.
- Limitations: Critique of the process or evidence.
- Implications: How inquiry results apply to a larger context or the real world.



INQUIRY AND ANALYSIS VALUE RUBRIC (PLO2) For more information, please contact value@aacu.org



RUBRICS

Artifact – ENVS 451 Environmental Science and Policy Capstone Part 1 – Research Proposal

	Capstone	Milestones		Benchmark	
	4	3	2	1	
Topic Selection	Identifies a creative, focused, and manageable topic that addresses potentially significant yet previously less- explored aspects of the topic.	Identifies a focused and manageable/doable topic that appropriately addresses relevant aspects of the topic.	Identifies a topic that, while manageable/doable, is too narrowly focused and leaves out relevant aspects of the topic.	Identifies a topic that is far too general and wide-ranging as to be manageable and doable.	
Existing Knowledge, Research, and/or Views	Synthesizes in-depth information from relevant sources representing various points of view/approaches.	Presents in-depth information from relevant sources representing various points of view/approaches.	Presents information from relevant sources representing limited points of view/approaches.	Presents information from irrelevant sources representing limited points of view/approaches.	
Design Process	All elements of the methodology or theoretical framework are skillfully developed. Appropriate methodology or theoretical frameworks may be synthesized from across disciplines or from relevant subdisciplines.	Critical elements of the methodology or theoretical framework are appropriately developed; however, more subtle elements are ignored or unaccounted for.	Critical elements of the methodology or theoretical framework are missing, incorrectly developed, or unfocused.	Inquiry design demonstrates a misunderstanding of the methodology or theoretical framework.	
Analysis	Organizes and synthesizes evidence to reveal insightful patterns, differences, or similarities related to focus.	Organizes evidence to reveal important patterns, differences, or similarities related to focus.	Organizes evidence, but the organization is not effective in revealing important patterns, differences, or similarities.	Lists evidence, but it is not organized and/or is unrelated to focus.	
Conclusions	States a conclusion that is a logical extrapolation from the inquiry findings.	States a conclusion focused solely on the inquiry findings. The conclusion arises specifically from and responds specifically to the inquiry findings.	States a general conclusion that, because it is so general, also applies beyond the scope of the inquiry findings.	States an ambiguous, illogical, or unsupportable conclusion from inquiry findings.	
Limitations and Implications	Insightfully discusses in detail relevant and supported limitations and implications.	Discusses relevant and supported limitations and implications.	Presents relevant and supported limitations and implications.	Presents limitations and implications, but they are possibly irrelevant and unsupported.	











