

Clemson University General Education Student Learning Outcomes & Rubrics

The Clemson University General Education Curriculum (branded 'Crossings') has three areas of student learning:

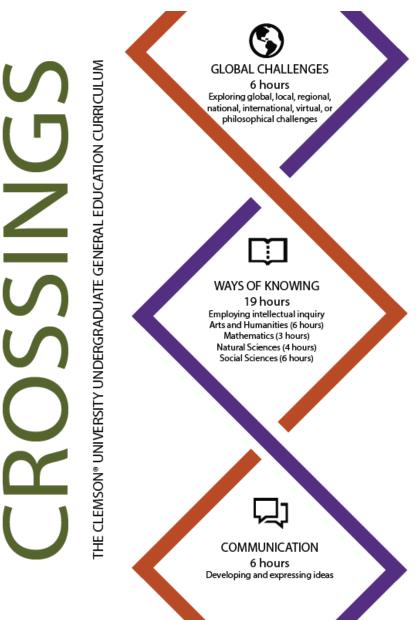
<u>Communication</u> (6 hours) – oral and written. A new student learning outcome went into effect in fall 2019.

<u>Ways of Knowing</u> (19 hours) – distributed across disciplinary content areas

Arts & Humanities • Social Sciences • Mathematics • Natural Sciences with Lab

We have student learning outcomes specific for each area; new student learning outcomes went into effect in fall 2019.

<u>Global Challenges</u> (6 hours) – a new area going into effect in fall 2022 for new students.



Communication (assessed in odd academic years: 19-20, 21-22, etc.) -Revised effective fall 2019 catalog

Student learning outcome: Students will demonstrate competence in communication through organization of a central message with supporting materials in the chosen medium.

	4	3	2	1
Organization	Organizational pattern is clearly	Organizational pattern is	Organizational pattern is	Organizational pattern is
	and consistently observable. It is	clearly and consistently	intermittently observable.	not observable.
	skillful and makes the content	observable.		
	cohesive.			
Central Message	Uses appropriate, factual,	Uses appropriate, factual,	Uses appropriate, factual, and	Content may be
	relevant, and compelling content	and relevant content to	relevant content to develop	inappropriate, inaccurate,
	such that a clear central	develop and explore ideas	ideas in some parts of the	or irrelevant to the central
	message is easy to identify.	such that a clear central	work. A clear central message	message, and/or a central
	Central message is also	message is easy to identify.	may not be easily identifiable.	message is not explicitly
	comprehensive and detailed.			stated.
Supporting	Demonstrates skillful use of	Demonstrates consistent	Demonstrates an attempt to	Demonstrates an attempt to
Material/Sources	high-quality, credible, relevant	use of credible, relevant	use credible and/or relevant	use sources to support
and Evidence	sources and varied resources to	sources to support ideas.	sources to support ideas.	ideas.
	develop ideas.			
And at least one of th	e following:			
Oral	Delivery techniques make the	Delivery techniques make	Delivery techniques make the	Delivery techniques detract
Communication	presentation compelling, and	the presentation interesting,	presentation understandable,	from the coherence of the
Delivery	speaker appears polished and	and speaker appears	and speaker appears tentative	presentation, and speaker
	confident.	comfortable.		appears uncomfortable.
Written	Uses graceful language that	Uses straightforward	Uses language that generally	Uses language that
Communication	skillfully communicates meaning	language that generally	conveys meaning to readers	sometimes impedes
Syntax and	to readers, with clarity and	conveys meaning to	with clarity. Might include	meaning because of
Mechanics	fluency. Virtually error-free	readers. Few language	some language errors.	language usage errors.
	language.	errors		
Digital/Visual Media	Message is compellingly	Message is appropriately	Message is delivered with	Message is unclear and
	delivered. Represents	delivered. Represents an	some limitations. Represents	inappropriately crafted for
	exceptional use of the	effective use of the	limited use of the opportunities	the medium.
	opportunities and constraints of	opportunities and the	and constraints of the medium.	
	the medium.	constraints of the medium.		

Rubric for assessing the student learning outcome:

*Definitions:

"Organizational pattern" refers to the grouping and sequencing of ideas and supporting material. It may often include a specific introduction and conclusion, sequenced material within the main body of the communication form, and transitions.

"Central message" refers to the main point/thesis/"bottom line"/"take-away" of a communication form. A clear central message is easy to identify and a compelling central message is also vivid and memorable.

Delivery techniques may include posture, gesture, eye contact, and vocal expressiveness. They enhance the effectiveness of a presentation when the speaker stands and moves with authority, looks more often at audience than at materials/notes, uses the voice expressively, and uses few vocal fillers (um, uh, like, you know, etc.)

Arts and Humanities (assessed in even academic years: 20-21, 22-23, etc.) - Revised effective fall 2019 catalog

Courses fulfilling the Arts and Humanities component of the General Education curriculum should address SLO1 or SLO2. (In submitting student work for assessment, faculty will have the opportunity to indicate whether the signature assignment addresses SLO1 or SLO2.)

Student learning outcome 1: Students will analyze, interpret, and employ aesthetic, ethical, linguistic, and/or philosophical discourse in relevant contexts.

Rubric for assessing the student learning outcome:

	4	3	2	1
Makes a	Supports the argument with	Supports the argument	Supports the argument in a	Reasoning is unrelated to the
coherent	organized layers of sophisticated	through appropriate	simplistic or obvious manner.	argument.
argument.	and meaningful reasoning.	reasoning.		
Synthesizes	Explores a topic in depth, yielding	Explores a topic in	Explores a topic with some	Explores a topic at a surface level,
sources	a rich awareness and/or little-	depth, yielding insight.	evidence of depth, providing	providing little insight and/or
	known information.		occasional insight.	information beyond basic facts.

<u>or</u>

Student learning outcome 2: Students will create, perform, interpret, reinterpret, and/or criticize artistic works.

Rubric for assessing the student learning outcome:

	4	3	2	1
Creation and/or performance	Demonstrates proficiency and innovation in knowledge and/or use of skills, tools, and methods for the artistic	Demonstrates proficiency in knowledge and/or use of skills, tools, and methods for the artistic work.	Demonstrates satisfactory knowledge and/or use of skills, tools, and methods for the artistic work.	Demonstrates limited knowledge and/or use of skills, tools, and methods for the artistic work.
	work.			

Interpretation,	Interpretation,	Interpretation, reinterpretation,	Interpretation, reinterpretation,	Interpretation,
reinterpretation,	reinterpretation, and/or	and/or criticism is supported	and/or criticism is supported	reinterpretation, and/or
and/or criticism	criticism is supported with	with two of the following:	with one of the following:	criticism is missing concrete
	concrete details, intellectual	concrete details, intellectual	concrete details, intellectual	details, intellectual
	associations, and personal	associations, personal	associations, personal	associations, and personal
	perceptions about the artistic	perceptions about the artistic	perceptions about the artistic	perceptions about the artistic
	work.	work.	work.	work.

Social Science (assessed in even academic years: 20-21, 22-23, etc.) - Revised effective fall 2019 catalog

Student learning outcome: Students will use social science concepts and evidence to explain human actions or behaviors in the past, the present, and/or the future.

Rubric for assessing the student learning outcome:

	4	3	2	1
Social science concepts and evidence connected to human actions or behaviors	Analyzes, with insight, the connections between social science concepts/evidence and human actions or behavior.	Produces accurate and appropriate connections between social science concepts/evidence and human actions or behavior.	Produces limited and/or superficial connections between social science concepts/evidence and human actions or behavior.	States social science concepts/evidence with no connection to human actions or behavior, <u>or</u> States human actions or behaviors with no connections to social science concepts/evidence.
Effectiveness of explanations	Reaches meaningful and logical conclusions based upon evidence, demonstrating a sophisticated understanding of multiple, interconnected contextual factors.	Reaches meaningful and logical conclusions based upon evidence.	Reaches conclusions based upon limited evidence.	States conclusions with little evidence.

Mathematics (assessed in odd academic years: 19-20, 21-22, etc.) - Revised effective fall 2019 catalog

Student learning outcome: Students will demonstrate mathematical literacy through interpretation of mathematical forms and performing calculations.

Rubric for assessing the student learning outcome:

	4	3	2	1
Calculation	Calculations are successful and sufficient to solve the problem, while also demonstrating elegant presentation and clear organization.	Calculations are successful and sufficient to solve the problem.	Calculations are attempted, but may be unsuccessful or insufficient to solve the problem.	Calculations are unsuccessful and insufficient to solve the problem.
Interpretation	Provides accurate and sophisticated explanations of information presented in mathematical forms.*	Provides accurate explanations of information presented in mathematical forms.*	Provides explanations of information presented in mathematical forms,* but shows minor errors or lacks clarity.	Attempts to explain information presented in mathematical forms,* but shows major errors and lacks clarity.
*Definition: ma	athematical forms = equations, graphs, o	liagrams, tables, words		•

Natural Science (assessed in odd academic years: 19-20, 21-22, etc.) - Revised effective fall 2019 catalog

Student learning outcome: Students will demonstrate the process of scientific reasoning through experimental activity and critical comparison of their results to those predicted by accepted natural science principles.

	4	3	2	1
Scientific	Scientific endeavor* and its purpose is	Scientific endeavor* and its	Scientific endeavor* is	Scientific experiment*
Reasoning:	stated clearly and described	purpose is described and	described, but	is missing or
Experimental	comprehensively, delivering all relevant	clarified so that understanding	description leaves	incorrectly described.
activity	information necessary for full	is not seriously impeded by	some ambiguities.	
	understanding by the intended audience.	omissions.		
Scientific	Evidence from experiment is analyzed and	Evidence from experiment is	Evidence from	Evidence from
Reasoning:	fully interpreted to reveal insightful	analyzed to reveal important	experiment is	experiment is listed,
Evidence and	patterns, differences, or similarities to	patterns, differences, or	presented, but	but is unrelated to
analysis	accepted principles.	similarities to accepted	description leaves	accepted principles.
		principles.	some ambiguities.	
Scientific	Constructs a conclusion based upon	Constructs a conclusion based	States a general	States a conclusion,
Reasoning:	sophisticated interpretation of results and	upon the results and the	conclusion somewhat	but it may be
Conclusions and	hypothesis. Insightfully discusses relevant	hypothesis.	connected to results	ambiguous, illogical,
limitations	and supported limitations and implications.	Discusses relevant and	and hypothesis.	or unsupported.
		supported limitations and		
		implications.		
*Clarification: scien	tific experiment should be considered broadly.	It may involve a number of activiti	es, such as running comp	outer models, identifying
substances, classif	ication, observation, field work, building, mapp	ing, etc.	- · ·	

Rubric for assessing the student learning outcome:

Global Challenges (assessed in even academic years: 22-23, 24-25, etc.) – The Global Challenges area of the general education curriculum will go into effect for the fall 2022 catalog.

Student learning outcomes: 1.) Students will demonstrate critical thinking through analysis of global challenges. 2.) Students will evaluate how varying perspectives influence global challenges. 3.) Students will demonstrate the integration of ethics into analysis of global challenges. (Each Global Challenges course will incorporate at least two of the three student learning outcomes.)

Rubric for assessing the student learning outcomes:

(In submitting student work for assessment, faculty will have the opportunity to check which rubric rows are most appropriate to the signature assignment instructions.)

	4	3	2	1
Analysis of global challenges	Challenge to be considered critically is stated clearly and described comprehensively, delivering relevant information necessary for thorough understanding.	Challenge to be considered critically is stated, described, and clarified so that understanding is not seriously impeded by omissions.	Challenge to be considered critically is stated and described, with ambiguities.	Challenge to be considered critically is stated without clarification or description.
Influence of varying perspectives	Interprets experiences from the perspectives of one's own and more than one worldview while demonstrating respect for other cultural groups.	Recognizes and uses dimensions of more than one worldview.	Identifies components of the worldview of others.	Catalogs one's own cultural worldview only.
Integration of ethics into analysis of global challenges	Insightfully and explicitly analyzes ethical consequences in a complex, multilayered context. Integrates an explanation of cross- relationships among the issues.	Analyzes ethical consequences fully and in a complex, multilayered context.	Identifies ethical consequences fully.	Identifies basic and obvious ethical consequences, but fails to grasp complexity or interrelationships.
Integrative learning (i.e. – "transfer" of knowledge)	Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations to explore complex issues and extend knowledge.	Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations to explore complex issues.	Connects skills, abilities, theories, or methodologies gained in one situation to a new situation to understand issues.	Identifies (in a basic way) skills, abilities, theories, or methodologies applicable to a situation.
Diversity and inclusion	Insightfully and explicitly analyzes basic and complex advantages and challenges of diversity and inclusion in communities or organizations, while recommending strategies for improvement.	Insightfully and explicitly analyzes basic and complex advantages and challenges of diversity and inclusion in communities or organizations.	Identifies basic advantages and challenges of diversity and inclusion in communities or organizations.	Superficially or simplistically identifies advantages and challenges of diversity and inclusion in communities or organizations.

Global	Insightfully and explicitly analyzes	Insightfully and explicitly	Identifies significant	Superficially or simplistically
challenges and	significant and complex challenges	analyzes significant	challenges and	identifies challenges and
opportunities	and opportunities in the natural and	challenges and opportunities	opportunities in the	opportunities in the natural
	human world, while recommending	in the natural and human	natural and human world.	and human world.
	strategies for improvement.	world.		

Definitions:

Complex, multi-layered context: The sub-parts or situational conditions of a scenario that bring two or more ethical dilemmas (issues) into the mix/problem/context for students' identification

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.

Cross-relationships among the issues: Obvious or subtle connections between/among the sub-parts or situational conditions of the issues present in a scenario.

Perspective-taking: The ability to engage and learn from perspectives and experiences different from one's own and to understand how one's place in the world both informs and limits one's knowledge. The goal is to develop the capacity to understand the interrelationships between multiple perspectives, such as personal, social, cultural, disciplinary, environmental, local, and global.

Strategies for improvement: A plan/plans of action or an approach/approaches designed to arrive at a solution.

Worldview: Worldview is the cognitive and affective lens through which people construe their experiences and make sense of the world around them. It involves metacognition on behalf of the learner, through student self-awareness in relating one's own perspective to the perspectives of those in a position of knowledge.

Created and/or adapted in part from:

- Association of American Colleges and Universities (AAC&U) VALUE rubrics. Retrieved from https://www.aacu.org/value-rubrics
- Pathways: General Education for All. Virginia Tech. Retrieved from https://www.pathways.prov.vt.edu/about.html

The following student learning outcomes and rubrics are in effect through the 2021-2022 academic year catalog. Assessment is not being conducted at this time, as we are transitioning to the new curriculum.

Cross-Cultural Awareness

Competency: Explain how aspects of culture are integrated into a comprehensive worldview; and then demonstrate how culture influences human behavior.

Criteria	1	2	3	4
Comprehensive			Provides an in-depth, detailed	Demonstrates
Worldview	college-level work.	being studied on the subject's	analyses of the impact aspects of the culture being studied has on the subject's worldview.	exemplary work.
Human Behavior	Demonstrates unsatisfactory college-level work.	Provides, with minimal detail, citing only one or two examples, the influence one's culture has on	Provides in great detail, using multiple examples how aspects of a specific culture can influence	Demonstrates exemplary work.
		human behavior.	human behavior.	

Science and Technology in Society

Competency: Demonstrate an understanding of issues created by the complex interactions among science, technology, and society.

Criteria	1	2	3	4
technology and society	Demonstrates unsatisfactory college-level work.	Identifies an interaction between science or technology and society		Demonstrates exemplary work.

Critical Thinking

Competency: Demonstrate the ability to assemble information relevant to a significant, complex issue, evaluate the quality and utility of the information, and use the outcome of the analysis to reach a logical conclusion about the issue.

Criteria	1	2	3	4
Analyze information	Demonstrates unsatisfactory college-level work.	Demonstrates basic ability to assemble information to analyze an issue.	Demonstrates sophisticated ability to assemble information to analyze an issue.	Demonstrates exemplary work.
Reaches Logical Conclusions	Demonstrates unsatisfactory college-level work.	Demonstrates basic ability to apply analysis to reach a logical conclusion	Demonstrates sophisticated ability to apply analysis to reach a logical conclusion	Demonstrates exemplary work.

Ethical Reasoning

Competency: Demonstrate an ability to identify, comprehend, and deal with ethical problems and their ramifications in a systematic, thorough, and responsible way.

Criteria	1	2	3	4
Ethical issue	Demonstrates unsatisfactory college-level work.	The ability to identify and briefly analyze an ethical issue from the viewpoint of multiple stakeholders.	The ability to identify and thoroughly analyze an ethical issue from the viewpoint of multiple stakeholders balancing the perspectives of each.	Demonstrates exemplary work.