

The fourth quarter’s project is service learning or a unique involved experiment. The idea of service learning is to apply your knowledge of biology to the service of the community. This would include identifying a need, performing background research, developing a plan, and implementation. The second choice of performing a unique experiment would consist of proposing a question, developing a testable hypothesis, research and experimentation. Both of these projects take time to properly perform. Please plan and begin work early.

Due Dates

Project Summary/Outline:

Initial Research and Plan of Implementation:

Paragraph Review of Implementation:

Final Paper due two weeks before the end of the semester:

Service Learning Rubric

	Strong Impact	Good Impact	Some impact	Minimal Impact
Meets actual needs	Determined by current research conducted or discovered by students	Determined by past research discovered by students with teacher assistance where appropriate	Determined by making a guess at what community needs may be	Community needs secondary to what project student wants to do; project considers only student needs or desires
Coordinated w/community	Active, direct collaboration with community by the student	Community members act as consultants in the project development	Community members are informed of the project directly	Community members are coincidentally informed or not knowledgeable at all
Uses academics in real world (Show knowledge of biology concepts in project)	Student has direct application of new skill or knowledge in community service	Students have good active application of new skill or knowledge	Students have some active application of new skill or knowledge	Skill knowledge used mostly in the classroom; no active community service experience
Facilitates reflection (Reflection of work)	Students think, share, produce reflective products individually	Students think, share, produce group reflection only	Students share with no individual reflective projects	Ran out of time for a true reflection; just provided a summary of events
Develops caring (Show reflection of why project was important)	Reflections show affective growth regarding self in community and the importance of service	Reflections show generic growth regarding the importance of community service	Reflections restricted to pros and cons of particular service project regarding the community	Reflections limited to self-centered pros and cons of the service project
Improves quality of life	Facilitate change or insight; help alleviate a suffering; solve a problem; meet a need or address an issue	Changes enhance an already good community situation	Changes mainly decorative, but new and unique benefits realized in community	Changes mainly decorative, but limited community benefit, or are not new and unique
Mechanics	No mistakes in spelling, grammar, or punctuation.	No mistakes in spelling, grammar, or punctuation.	A few minor mistakes that do not interfere with the reader’s ability to comprehend the writer’s ideas.	Many minor mistakes. Mechanics make the writing somewhat difficult to understand or read.
Deadlines	Student met all deadlines.	Student met all deadlines.	Student met most deadlines.	Student repeatedly missed deadlines.

Experiment Rubric

Criteria	Advanced		Proficient		Emerging
Experimental Procedure	Followed Experimental procedure as laid out on the Lab report Rubric. Parts of the lab are well written and properly explained.		Mostly followed rubric and Scientific method. Lab is written with some explanation or parts unclear.		Failed to follow portions of the scientific method as laid out on the Lab report Rubric. Parts of write-up are not fully explained.
Chosen Experiment	Experiment is unique with no easy answer. Breath of experiment is significant.		Breath of experiment is moderate. Experiment results are guessable		Experiment is cook book; The results are easily discernable before the experiment begins.
Research	Research thoroughly describes current work/ thought in the field.		Research describes some work in the field.		Research describes one piece of work/thought about the experiment.
Mechanics	No mistakes in spelling, grammar, or punctuation.		A few minor mistakes that do not interfere with the reader's ability to comprehend the writer's ideas.		Many minor mistakes. Mechanics make the writing somewhat difficult to understand or read.
Deadlines	Student met all deadlines		Student met most deadlines		Student repeatedly missed deadlines.