

Class Disclosure

Advanced Science Research 2015/2016

Salt Lake Center for Science Education
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Course Description

Students will develop and refine their science process skills by working on a research project of their choice. Students who successfully complete course assignments and an original research project will earn elective credit towards SLCSE graduation requirements and an Advanced Class credit toward a SLCSE diploma.

Course Goals and Objectives

The course objectives are that students will:

- Use science process and thinking skills to design an investigation.
- Communicate effectively using scientific language and reasoning.
- Collect, discuss and analyze data.
- Develop technical writing skills.
- Participate in the school science fair.

Course Materials

Students are expected to bring paper, pencils, research materials and their science journal to class everyday. Students will also have to provide some of their own research materials and will be expected to write a grant to help fund procurement of materials.

Course Requirements

Assignments: All students will write a research plan, carry out a project and present it at a science fair. About 75% of class time will be dedicated to individual research projects and 25% of class time will be spent on a group project that models research skills. Students are expected to be self-directed learners and take the initiative in guiding their science project. Students will orally present progress reports to the class on a bi-weekly basis. There will be times when several hours of research needs to be completed outside of class time. There will also be several group activities outside of class including a research campout, after-school field trips, and science fairs.

Behavior: Students are expected to be active members of the classroom community and to treat themselves, their classmates, their classroom and their teacher with respect at all times. Students are expected to arrive to class on time and be ready to work.

- H** Excellent class conduct and participation
- S** Good class conduct and participation
- N** Behavior/Attendance needs improvement
- U** Unacceptable class conduct

Plagiarism: Information must be properly cited. Students must conduct their own work.

Absences: It is the student's responsibility to ask for and make up any missed work. Students must inform the teacher and the principal about any planned extended absence. Students have two days for each day they are absent to make up work.

Grading Procedures

Major Assignments count for 50% of your grade. Here are the *projected* due dates:

- 10/9 Annotated Bibliography
- 10/23 Research Plan
- 10/30 Grant Application
- 11/6 Science Fair Paperwork
- 12/18 Data Collected
- 1/15 Data Analysis and Graphs
- 1/29 Poster Completed for Science Fair

Participation (50%) – Daily points assigned for classwork and homework assignments.

Grades will be updated on PowerSchool at least every two weeks and parents can access their students' grade via the district website <http://www.slcschools.org/pa>

We are super excited to be co-teaching this science research class for the first time at SLCSE. If you have any questions or are interested in being involved in the class, please email us.

Student name _____

Student signature _____

Student email _____

Student cell phone _____

Parent name(s) _____

Parent signature _____

Parent email _____

Home phone _____ Work phone _____

Best time to call _____

Comments: _____
