

Independent Research 2026-27

Instructor - Mr. Slaven

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Website: Google Classroom



Course Description:

This course is designed for a student who is interested in learning about and conducting scientific research investigations. Students will develop an understanding of hypothesis development, searching for and critically evaluating academic manuscripts/literature, experimental design and implementation, data evaluation and biostatistics, and modes of scientific communication.

Prerequisite: Science Teacher Recommendation

Course Goals:

Upon successful completion of this course, the student will be able to:

1. Demonstrate an understanding of the scientific method and the process of conducting a research project.
2. Incorporate scientific inquiry, authentic research, innovative technological/engineering design, and market studies through a self-selected project.
3. Identify a problem, develop an innovative solution, and research STEM topics to support a solution.
4. Conduct market studies and develop a financial plan to prove the feasibility of their entrepreneurial venture.
5. Present the project to a panel of “potential investors”.

Course Topics:

Will vary based on student interest

Grading Scale: 90 - 100% = A, 80 - 89% = B; 70 - 79% = C; 60 - 69% = D; 0% - 59% = F

Graded Work:

Grades in this course will be from various checkpoints completed throughout your project. The final exam will consist of a written paper and the oral presentation of the project.

Expectations/Responsibilities

1. Please be on time and prepared to work!!
2. Be courteous of others.
3. Always ask questions if you do not understand something or need clarification. There is a direct relationship between participation and learning.
4. If you are having a problem, communicate with your assigned instructor or mentor to see if we can find help before the issue becomes larger.
5. Regular attendance is imperative. It is your responsibility to get assignments and make up work. Assignments not made up according to school policy will result in a zero.