ABSTRACT OF PROJECTS

Surviving College for Dummies

Instructor: Cherie Harris

Kendralyn Begay, Royce Brady, Kamesha Brown, Shelby Brown, Renae Byakeddy, Donya Dalton, Samantha Holiday, Kayla Hume, Melanie Lopez, Renae Pailzote, Chelsie Roy, Jimmie Tsosie Jr. Andrell Williams

Many students graduate college with excessive debt caused by a lack of planning and/or compulsive spending. This project aims to teach students to create a financial plan for college. With a proper financial plan in place the projects help to reduce the amount of unnecessary debt that the students will graduate with in the future.

Effect of soil type on seed germination and seedling growth

Instructor: Ken Baumgartner

Joslyn Chapo, Adrian Edwards, Veronica Espinoza, Carletta Gray, Lisa Jaramillo. Tyler Lee, Charmaine Manhiemer, Joshua Mayoral, Alexamder Ordonez, Nekayla Store, Kurrie Welch, Violet Wielgus

The objective of this study was to learn about how seeds germinate and grow in different soil types. Specifically, we planted three squash and one kale species in soil native to the Flagstaff area as well as in potting soil. We then compared germination rates, germination percentages and growth rates between the two soil types. Plants were grown indoors in indirect sunlight and studied over a three week period. Results suggest marked differences in the effect of soil type on germination rate, germination percentage and growth rate for all species planted. This data can be useful given the short growing season around Flagstaff. Germinating seeds in potting soil is one way to efficiently establish seedlings in a short amount of time. However, the advantages and disadvantages must be considered given the cost of potting soil and danger in transplanting.

Material Properties and Scientific Measurements of the World Around Us

Instructor: Osita Onyejekwe

Leandra Becenti, Shayla Chatto, Mallory Crank, Adrian Horton, Germayne James, Anthony Jim, Krishna John, Elmetina Manygoats, Cody Nakai, Florisa Peshlakai, Mark Saxton, Shanel Tsosie, Alannah Yazzie

The Course that relates Engineering and the Natural world around us will serve as to give students an experience of matter, its laws, measurements and their uses in modern day society. Students will learn about Vector and Scalar quantities, chemical properties and physical properties of the world around us. The students will learn how to distinguish between qualitative and quantitative analysis. Most importantly they will learn how these quantities are related in the formation of the world around us. Documentaries will be watched, labs will be done and finally a technical paper and a presentation that depicts their work shall be presented.

Public Service Announcement

Instructor: Leah Rivera

Kendrick Lomayaktewa, Derrick Manson, Chaygne Masawytewa, Antonio Sonny, Montana Wade, Kaydee Williams, Velincia Clyde, Brent Jones

The students will all take turns discussing (presenting on PowerPoint) their dual involvement in Future Health Leader (FHL) and 4 Corners. Through FHL, these students have gained many valuable experiences and knowledge that helps prepare them for college and adult life. Their topics are college exploration, CPR and First Aid certification, career exploration and heart dissections and ropes course. After working with the Zaki Gordon Institute, the students produced three 30 second public service announcements (PSA). All the topics, plot charts and productions were the original work and ideas of the students. The titles to their Public Service Announcements are Teen Pregnancy, STD's and Exercise.

The Fun of Chemistry

Instructor: Diane Mares

Marquitta Chaco, Taylor Conatser, Roselynda Conn, Erelda Gene, Kristin Jackson, Shannen Jones, Shelton Lee, Elain Manymules, Valentina Nez, Richard Pulliam, Tashyna Seweingyawma, Nathaniel Tapaha, Blaze Valencia

This year's Chemistry students have enthusiastically prepared a PowerPoint presentation showcasing their favorite aspects of their chemistry class. Everything from synthesizing ice cream and elephant toothpaste, to their favorite element Uranium is included in this presentation along with a brief discussion why these things are important to chemistry. After the presentation, the students will demonstrate their favorite chemical reaction which is known as the "genie in a bottle." With a big burst of smoke, it will become apparent how fun and exciting chemistry can be.