

GENES AND ANCESTRY

Requirement area: **Science or Elective**

Course code: SGA300

Grade Level: 10, 11, 12

Prerequisite: Biology recommended

Length: 1 semester (0.5 credit)

Homework: 0-1 hours per week

Fee: \$10

Description: In this hands-on course students will investigate their ancestry using databases and analyze DNA to develop a deeper understanding of modern human genetics. Students will debate the social, legal & ethical implications of new genetics and study topics including genetic disorders and forensic anthropology. Labs may include blood typing, paternity analysis, detecting hereditary cancer in a fictitious family and genetic screening of a family. Students will have an opportunity for optional labs to extract their own DNA for analysis.