

Biology II Syllabus

RCAS Policies/Procedures

Students will be required to follow all RCAS policies and procedures. To view the RCAS High School Student Handbook, click [handbook](#).

Course Description

Biology II emphasizes heredity, mechanisms of genetic change, and ecology.

Grading

Points shall be awarded for assignments, labs, quizzes, and projects. Points will be awarded and collected cumulatively throughout the semester.

Textbook

Biology by Miller& Levine. Published by Pearson. ISBN 978-0-13-323575-6

Reading

N/A

Optional Reading

N/A

Instructional Resources

- Canvas.com
- Khanacademy.org
- Biomanbio.com

Essential Questions

- How are the characteristics from one generation related to the previous generation?
- How can there be so many similarities among organisms, yet so many different plants, animals, and microorganisms?
- How does biodiversity affect humans, and how do humans impact biodiversity?
- How do matter and energy move through ecosystems?
- How do organisms interact with their environment to obtain matter and energy?

Essential Learning Intentions

- Students can predict inheritance patterns using specific traits.
- Students can show how the survival of a population is impacted by natural selection.
- Students can describe how the evolution of specific traits can contribute to a species' survival.
- Students can determine how abiotic factors play a role in how organisms interact with their environment.

- Students can determine how biotic factors play a role in how organisms interact with their environment.
- Students can describe the flow of energy through an ecosystem.
- Students can describe how nutrients move through the biotic and abiotic parts of an ecosystem.