

Biology: An Introduction to Evolution

Biology, 101, A01

Online, June 1 - August 20

Summer 2019

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Class Location: Online

Office: Online only

Course Website: <https://chelseacrawford.opened.ca>

Course Description

This course will provide an introductory overview of evolution. Students will gain an understanding of evolution, how this relates to natural selection and adaptation of species. Sup-topics such as gene flow, genetic drift, biological fitness, and specie development will be explored.

Course Outcomes

Students who complete this course successfully will be able to:

- Understand and discuss the concept of evolution of populations and species
- Identify examples of adaptation and how they develop.
- To apply the concept of selective pressure to the examples of biological fitness.
- Evaluate how gene flow and genetic drift affect a species evolution, and how it varies in large and small populations.

Required Texts, Materials, or Equipment

<https://www.biointeractive.org/classroom-resources?f%5B0%5D=topics%3A59> Supplementary materials will be provided through a link on the course website

Daily Work/Homework

This course takes place online, therefore, it is each students responsibility to check back frequently for any course updates and assignments.

Major Assignments: Descriptions

The major assignment for this course requires each student to research and develop a blog post to showcase their learning about an example of evolution

Course Grading

Assignments will be graded based on originality of ideas, incorporation of supplementary sources, thoughtful interaction with class readings, and communication with peers.

- Completion of unit quizzes and matching answers: **15% of total grade**
- Blog Post: **70% of total grade**
- Response to peers posts: **15% of total grade**