

BIOL 302. FUNDAMENTALS OF GENETICS AND GENOMICS.

Credits: 3

Offered by: Biology (Faculty of Science)

Terms offered: Fall 2025

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Description

Trait variation within and across populations and species, and how this reflects variation within genomes. Case studies and problem-solving approaches will be used to illustrate the tools of genomics, molecular genetics and classical genetics, and how they are employed to understand the mechanisms of phenotypic variation. Topics will include evolutionary, developmental and human genetics. Application of multiple levels of genetic analysis, formulation, and testing of hypotheses on critical topics ranging from evolution to developmental biology to human genetics.

- Prerequisites: BIOL 200 or BIOL 219; BIOL 215, or permission of instructor.
- Restrictions: Not open to students who have taken or are taking BIOL202.

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