

BIOS₃₁₀ : Genetics

This course offers an overview of the principles of genetics including Mendelian and modern concepts of heredity. In this course inheritance will be examined in terms of classical or transmission genetics and also at the molecular level through the study of structure, function and expression of the DNA molecules themselves in prokaryotic and eukaryotic cells. Developments in molecular genetics will be addressed through the chemistry and physiology of the gene and the nature of gene action. Students will develop critical thinking skills in the application of current genetic knowledge and laboratory techniques.

Credits 3

Prerequisite Courses

BIOS₁₂₀

BIOS₂₀₃

BIOS₂₀₄

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