

2024-25 ACADEMIC COURSES

BIO 215 : CELL AND MOLECULAR BIOLOGY

In this course, students explore the smallest unit of living things, the cell, at the molecular and genetic level. A comparative cellular examination of the three domains of life (Archaea, Bacteria and Eukarya) provides an understanding of similarities of cells, while further study investigates differentiation and variation which leads to the diversity of life. Molecular pathways are dissected in both prokaryotic and eukaryotic cells focusing on their regulation and control. DNA technology, including genetic analysis of genomes, genetic engineering, gene therapy and cloning are also investigated. Laboratory topics focus on cell types and differentiation, enzymatic specificity and control, cellular respiration and DNA/molecular techniques. Level I Prerequisite: Academic Reading and Writing Levels of 6; BIO 161 or BIO 162 and CEM 105 or CEM 111; minimum grade "C" all BIO and CEM requirements

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Description	Hours
Credits	4
Lecture Hours	45
Clinical Hours	0
Lab Hours	45
Other Hours	0
Total Hours	90

Accurate as of 07/12/2024 Information is subject to change without notice.