

BIOL S-76. Principles of Cell Biology (CRN: 30015)

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This course is an introduction to the structure and function of cells. Emphasis will be placed on exploring modern research tools, such as microscopy, protein separation techniques, and molecular biology, that are used to understand and manipulate cell function. Emphasis will be placed on the cellular and molecular basis of selected disease states such as inherited tendencies to have high blood cholesterol levels as well as diabetes. Current strategies used to develop new treatments for cancer will be used as a window to understand the molecular basis of this disease. Lectures will include animations and time-lapse microscopy illustrating fundamental cellular processes.