

Course Number	Course	Credit hours	Prerequisite
0300182	Cytology and General Biology	4	--

Theoretical part: This course introduces the principles and concepts of biology and covers the internal structure of the cell, molecules of the cell, traffic across biological membranes, metabolism, respiration and photosynthesis, cell-cell signaling, cell division, molecular biology of the gene, DNA technology and some familiar techniques used in cell biology.

Practical part: includes lab instructions and introduction, the use and care of the microscope, wet mount preparation of prokaryotic and eukaryotic cells, chemical composition of macromolecules, diffusion and osmosis through cellular membrane, cellular respiration and photosynthesis, cellular division (mitosis & meiosis) and some human characteristics related to genetics as blood grouping.