



Code	Subject Title	Cr. Hrs	Semester
BIO-112	Biology (General Studies)	3	II
Year	Discipline		
1	Applied Psychology		

Theory:

Biology and its major fields, Cell organization and division, Enzymes as catalysts, Genes and Chromosomes, DNA structure and function, Mendelian inheritance, Variety of Living organisms, Plant diversity, Animal diversity, Evolution and its theories, Animal reproductive and development systems, Ethology, Human central and peripheral nervous system, Major human endocrine glands, Role of nutrition, Principles of biotechnology and applications, Ecosystem, Population and Environment.

Lab:

- Microscope- Principles and handling
- Cell structure and function
- Diffusion/Osmosis
- Mitosis/Meiosis
- Study of various types of Stomata and appendages
- Survey of Plant kingdom
- Survey of Animal kingdom
- Water / Air pollution

Recommended Books:

Brooker, R., Widmaier, E., Graham, L and Stiling, P. 2010. Biology, 2nd Edition, McGraw-Hill Science/Engineering/Math.

Ravan, P., Johnson, G., Mason, K and Losos, J. 2007. Biology, 8th Edition, McGraw-Hill Science/Engineering/Math.

Reece, J.B., Urry, L.A., Cain, M.L and Wasserman, S.A. 2010. Campbell Biology, 9th Edition, Benjamin Cummings.

Mader, S.S. 2009. Biology, 10th Edition, McGraw-Hill Science/Engineering/Math.

Campbell, N.A., Reece, J.B., Taylor, M.R and Simon, E.J. 2008. Biology: Concepts and Connections, 6th Edition, Benjamin Cummings.