

**MOLECULAR BIOLOGY AND GENETICS DEPARTMENT
COURSES FOR OTHER DEPARTMENTS
COURSE CONTENTS**

MBG 121 Biology I (3+0)3 ECTS: 5

Chemical context of life, water and the fitness of the environment, carbon and the molecular diversity of life, the structure and function of macromolecules, membrane structure and function, metabolism, cellular respiration, photosynthesis, cell communication, the cell cycle, meiosis and sexual life cycles, Mendel and the gene idea, the chromosomal basis of inheritance, from gene to protein, the genetics of viruses and bacteria, eukaryotic genomes, DNA technology and genomics, the genetic basis of development.