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SYLLABUS

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| Name and code of the course | **BIO101 GENERAL BIOLOGY I** |
| Instructors | Prof. Dr. Sümer ARASProf. Dr. Sevgi ERTUĞRUL KARATAYProf. Dr. A. Emre YAPRAKAssoc. Prof. Dr. M. Borga ERGÖNÜL |
| Level | Undergraduate |
| Credit | 4.0 ECTS: 7.0 |
| Course Type | Compulsory |
| Course Content | Structure of cell membrane, Organelles, biological molecules, energy production, photosynthesis, respiration, frost, mitosis, inheritance, transcription, translation, biodiversity, classification, general characteristics of main groups, volution, phylogeny, The History of Life on Earth, Plant diversity |
| Goals of the course | Cell structure and functions, biological molecules, formation of energy in cell life, photosynthesis and respiration events, meiosis and sexual life cycles, molecular basis of inheritance, connection between genes and proteins, virus and bacterium genetics, eukaryotic genomes, biotechnology, diversity, naming and classification of living things in nature; to provide comprehensive information about the criteria used in their classification and the general characteristics of the groups included in these realms, to improve the student's ability to think, practice and evaluate the general biology.to teach the principles of evolution and phylogenetics, and to give general knowledge about plant diversity and the history of life on Earth. |
| Weekly course hours | 4 hours/week |
| Language | ENGLISH |
| Prerequisite | - |
| Recommended sources | MT Madigan, JM Martinko, J Parker - 2017, Biology of microorgnisms, Pearson, 14th EditionReece, J. B., Urry, L. A., Cain, M. L., Wasserman, S. A., Minorsky, P. V., & Jackson, R. (2014). Campbell biology (p. 135). Boston: Pearson. |
| Laboratory Practice | 2 hours/week |