

MARMARA UNIVERSITY Department of Biology

Department of Biology was established in 1982 and started education in 1996 with first students.

Students who are entitled to take education in Biology have the opportunity to improve their theoretical knowledge as well as practical skills in the relative field. In this contest, successful and inquisitive students are given the opportunity to participate in ongoing Projects in our department. Moreover, poster and presentation assignments about recent topics help students be prepared for academic life and are encouraged to participate in group projects. Ongoing researches in our department are concentrated on Plant – tissue culture and biotechnology, Ecophysiology, Diabetes and Obesity, Characterization of Bacteria in different habitats via molecular methods, Plant Embryology, Fauna and Flora field studies. However with multidisciplinary cooperations, forming further research areas in Biotechnology field is on the agenda.



WHY MARMARA UNIVERSITY Department of Biology

- Competent Academic Staff in related field
- Favourable communication between staff and students
- Only state university in Asian side of Istanbul
- Opportunity to study abroad with widespread Erasmus net.
- Synchronous, joint education with Chemistry and Environmental Engineering departments by double major and minor programs
- Student clubs related with science, sports and travel within the department .

For more information...

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MARMARA UNIVERSITY



FACULTY OF ARTS AND SCIENCES



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What does a Biologist do?



- Searching for characteristics of living things and causes, effect and solutions for diseases that arise from defects in these characteristics.
- Acquiring desired phenotypical characteristics for cells and organisms for use in different areas such as Medicine, Industry, Agriculture and Food.
- Determining the diversity of living things in a specific area.

Skills gained during Biology Education



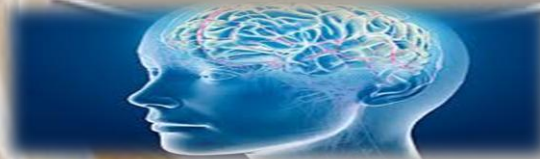
- ✚ Perceiving life and the underlying mechanisms of biodiversity.
- ✚ Analytical thinking ability.
- ✚ Tendency for teamwork.
- ✚ Understanding the basic principles of life, molecular mechanisms underlying in essence of life, and the methods and approaches.
- ✚ Understanding the causes and ways of interferences made to living systems.
- ✚ Understanding the relations between small scale molecular mechanisms and big scale ecosystems and the meaning of these relations.

What is Biology?

Biology is defined as the branch of science which examines all living things and elements of life. As techniques and devices used in examining living things develop, research subjects in Biology field and scientific approach has changed and developed.

When the historical development of Biology is taken into account, Biology has developed into a multidisciplinary science field, from a field that only studies diversity of living things and search of their internal and external structures, with contributions from Maths, Physics, Chemistry, Bioinformatics and Engineering, now studying life in molecular level as well as examining life not only in separate pieces but as a whole harmonic living system that leads to improvements in "Systems Biology" field.

Sectorel work fields



- ✚ Academic career
- ✚ Working as lab. Specialist in medical labs, hospitals and forensics
- ✚ Sales representative and consultant in Pharmaceutical companies.
- ✚ Teaching career
- ✚ Consultant and/or researcher in Biotechnology companies

Courses Taken During Biology



- ✚ General Biology
- ✚ Microbiology
- ✚ Genetics
- ✚ Molecular Biology
- ✚ Genetic Engineering and Biotechnology
- ✚ Biochemistry
- ✚ Animal Physiology
- ✚ Plant Physiology
- ✚ Cell biology
- ✚ Histology
- ✚ Animal Anatomy
- ✚ Plant Anatomy
- ✚ Human Anatomy
- ✚ Embryology
- ✚ Plant Morphology and Systematics
- ✚ Animal Morphology and Systematics