



## CHAPTER 1: INTRODUCTION TO BIOLOGY



### Fields of Study in Biology

Field of study	Description
<b>Aerobiology</b>	<b>Aerobiology</b> is the study of organic particles, e.g. bacteria and fungal spores, and very small insects and pollen, which are all passively transported by the air.
<b>Arachnology</b>	<b>Arachnology</b> is the study of spiders and related organisms such as scorpions, pseudo-scorpions and harvestmen which are collectively called arachnids.
<b>Astrobiology</b>	<b>Astrobiology</b> is the study of the effects of outer space on living organisms and the search for extraterrestrial life.
<b>Bioengineering</b>	<b>Bioengineering</b> is the application of the principles of engineering and natural sciences to tissues, cells and molecules.
<b>Bioinformatics</b>	<b>Bioinformatics</b> is the application of information technology to biology, especially the technology used for the collection, storage, and retrieval of genomic data.
<b>Bionics</b>	<b>Bionics</b> is the application of methods and systems found in nature to the study and design of engineering systems and modern technology.
<b>Biophysics</b>	<b>Biophysics</b> is the application of theories and methods of physical science to questions of biology.
<b>Biopsychiatry</b>	<b>Biopsychiatry</b> is an approach to psychiatry that aims at understanding mental disorders in terms of the biological function of the nervous system.
<b>Cryobiology</b>	<b>Cryobiology</b> is the study of the effects of low temperatures on living organisms.
<b>Developmental biology</b>	<b>Developmental biology</b> is the study of the processes by which an organism develops from a zygote to its full structure.
<b>Marine biology</b>	<b>Marine biology</b> is the study of ocean plants and animals and their ecological relationships.
<b>Neurobiology</b>	<b>Neurobiology</b> is the branch of biology that deals with the anatomy, physiology and pathology of the nervous system.
<b>Biomathematics</b>	<b>Biomathematics</b> is the use of mathematical techniques and tools to model natural, biological processes.