

Physiology

Year and Campus:	2009
Coordinator:	Professor David Williams Department of Physiology Email: d.williams@unimelb.edu.au
Overview:	The physiology major will teach you how the body works. You will learn about the ways in which cells, organs and the whole body function in an integrated way. By understanding normal function, you will investigate disturbances in whole body systems such as those relating to the endocrine, cardiovascular, musculoskeletal, developmental and neural control systems. The experimental bases of physiology are emphasised and you will use contemporary techniques to examine questions in physiology. Discoveries in physiology have a broad impact upon health and medicine, environmental science, industry, nutrition, exercise and reproductive biology. Many of the discoveries from the human genome project rely on physiology to understand their impact on the human body.
Objectives:	Students completing this major will have: <ul style="list-style-type: none"> # understood how the functional properties of cells and tissues determine the integrated responses of human organ systems including musculoskeletal, cardiovascular, nervous and reproductive systems; # developed an understanding of the process of designing and conducting biomedical research, including the generation of experimental hypotheses, and analysis and interpretation of data derived from experiments; # gained experience in the critical evaluation and appreciation of the scientific literature; and # learned how physiology is able to provide functional and "real life" significance to on-going discoveries of genetic and molecular biological research.
Subject Options:	The major in Physiology does not require second year level selective units, students must complete the following third year level subjects: Third Year Frontiers in Physiology <i>Plus two subjects from:</i> Cardiovascular Health: Genes and Hormones Neurophysiology: Neuron, Synapses and Circuits Muscle and Exercise Physiology <i>Plus one subject from:</i> Cardiovascular Health: genes and Hormones Neurophysiology: Neuron, Synapses and Circuits Human Locomotor Systems Principles of Neuroscience Biochemistry of Metabolism and Nutrition Muscle and Exercise Physiology Reproduction Viscera and Visceral Systems Sensation, Movement and Higher Functions <i>Or another biomedical science subject as approved by the Major Coordinator</i> NB Complete information on third year level subjects will be available in the 2010 Handbook which will be published late 2009.
Links to further information:	http://www.bbiomed.unimelb.edu.au/bachelor_of_biomedicine/course_structure
Related Course(s):	Bachelor of Biomedicine