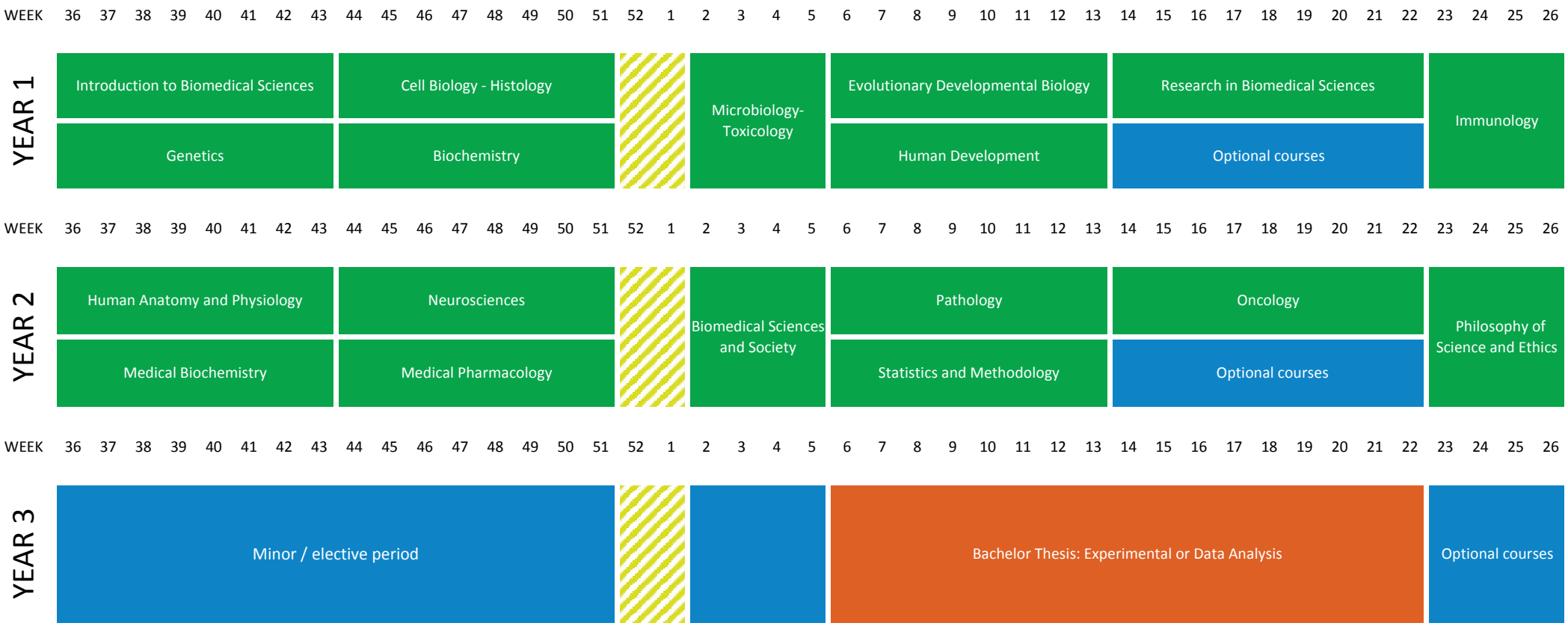
YEAR SCHEDULE BACHELOR BIOMEDICAL SCIENCES



COMPULSORY COURSE THESIS OPTIONAL COURSES HOLIDAY

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VU VRIJE UNIVERSITEIT AMSTERDAM Faculty of Science

BIOMEDICAL SCIENCES

A FEW COURSES FROM THE FIRST YEAR

COURSE	WHAT WILL YOU LEARN?
INTRODUCTION TO THE BIOMEDICAL SCIENCES	The course introduces you to science in general and to biomedical sciences in particular. You will attend lectures and work on assignments in small tutorial groups. As you search for scientific articles, read, write and make critical assessments, you will be laying the foundations for your further scientific career.
CELL BIOLOGY AND HISTOLOGY	In this course, you will discover the details of cell structure, and how a cell's function is related to its shape. Using the digestive system as a model, you will learn how cells come together to form tissues. This will involve the use of light microscopes and computer simulations.
MICROBIOLOGY - TOXICOLOGY	This course will show you the various positive and negative ways in which microorganisms affect humans. In toxicology, you will learn about the use of anti-microbial agents to control pathogens, and about foods that could contain toxic substances.
HUMAN DEVELOPMENT	In this course, you will learn to resolve the biomedical issues involved in normal embryonic development from a morphological and molecular perspective. You will also consider how these can account for various congenital defects. This course consists of the following three modules: reproduction and embryology, organ formation, and molecular mechanisms and development.
RESEARCH IN THE BIOMEDICAL SCIENCES	This course will teach you how to analyse and assess research results. The theoretical aspects will include various statistical analysis techniques, which you will then put into practice in a research project that you will design and perform yourself. You will also discover how statistics can be used and abused in science, by studying and criticizing various examples from everyday practice.
IMMUNOLOGY	During this course, you will learn about the innate and acquired human immune systems, and see how both cellular and molecular interactions contribute to a healthy immune system. You will discover that disruptions of the immune system play a part in autoimmunity, cancer, allergic reactions and infectious diseases.

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