



THE UNIVERSITY OF WINNIPEG

For more information visit www.uwinnipeg.ca or contact a student recruitment officer at welcome@uwinnipeg.ca or 204.786.9844. In any case where The University of Winnipeg Course Calendar and this fact sheet differ, the current Calendar takes precedence.

Bioanthropology

Bioanthropology is a unique program that combines aspects of anthropology with the biological and physical sciences. It is designed to examine human biological systems of the past and present.

This program combines the information and methodologies of anatomy, physical anthropology, archaeology, biochemistry, and biology with the techniques of the physical sciences to examine human biological systems of the past and present. The core program has required elements in biology, chemistry, and anthropology. You will gain an understanding of comparative anatomy, cellular biology, and methods in human and primate evolution and archaeology. You will also obtain experience in up-to-date laboratory techniques and procedures.

The Bioanthropology program offers you the option of combining two exciting disciplines to create a skill set that is interesting and unique. It is designed to appeal to people interested in human biology as well as those going on to professional programs in medicine and dentistry. Graduates with a 4-year degree may also pursue graduate studies in anthropology or biology.

Bioanthropology is an **interdisciplinary** program that allows you to customize your university education to fit your educational and career goals by taking courses from a number of different disciplines or areas. This program is founded primarily on courses from the departments of Anthropology, Biology, and Chemistry.

This program leads to a **3-year or 4-year Bachelor of Science**.

SAMPLE CAREERS

Employment opportunities for Bioanthropology graduates exist in government and hospital laboratories, forensic laboratories, museums, and zoos. This program also provides a basis for entry into professional programs in dentistry and medicine, and to graduate programs in anthropology and biology for students who take the four-year degree option.

SAMPLE COURSES

Evolution, Ecology, and Biodiversity is a first-year Biology course. This course emphasizes the evolutionary and ecological processes that underlie the relationship between an organism and its environment. Topics will include natural selection and the origin of species, systematics and taxonomy, the origin of biological diversity, growth and reproductive strategies, and communities and ecosystems.

Introduction to Forensic Science is a second-year Anthropology course that introduces students to the use of human skeletal and dental evidence in criminal contexts. The course provides students with knowledge of analytic methods, including analysis of skeletal remains, interpretation of DNA and other related approaches.

Comparative Chordate Zoology is a second-year Biology course that deals with the functional anatomy, adaptations, and evolution of the Protochordata, Agnatha, Chondrichthyes, Osteichthyes, Amphibia, Reptilia, Aves, and Mammalia.

Human Evolution is an Anthropology course available in third or fourth-year options. It examines the evolution of the human lineage over the past 6-7 million years, focusing on evidence from the fossil record. Students have the opportunity to examine casts of our early ancestors, and to learn how to interpret what fossils tell us about how

and why we evolved.

Primate Behaviour is an Anthropology course available in third or fourth-year options. It acquaints students with the diversity of living non-human primates, including their social behaviour, diet, and locomotion. It also introduces students to methodologies in the study of behaviour through a project carried out at the Assiniboine Park Zoo.

MORE SAMPLE COURSES

Comparative Animal Physiology
Field School in Paleoanthropology
Genetics
Human Osteology
Method and Theory in Archaeology
Molecular Genetics
Organic Chemistry
Primate Adaptation, Biology, and Evolution
Zooarchaeology

SAMPLE FIRST YEAR

NOTE: *This sample first year is representative of the courses you may take. For many of our programs, you may choose another set of courses and still be well on your way to a degree. Also, for most programs you do not have to take 30 credit hours (five full courses) in your first year.*

ANTH-1003(3) Physical Anthropology and Archaeology
ANTH-1002(3) Cultural Anthropology
BIOL-1115(3) Cells and Cellular Processes
BIOL-1116(3) Evolution, Ecology, and Biodiversity
CHEM-1111(3) Introduction to the Chemical Properties of Matter
CHEM-1112(3) Basic Principles of Chemical Reactivity
RHET-1103(3) Academic Writing: Science or any other section of Academic Writing (if required)
STAT-1501(3) Elementary Biological Sciences I
6 credit hours Humanities, depending on interest.

REQUIRED HIGH SCHOOL COURSES

In addition to meeting The University of Winnipeg's general admission requirements, you must have **Chemistry 40S** and either **Pre-Calculus Mathematics 40S** or **Applied Mathematics 40S**.

HOW TO APPLY – Domestic Student

Apply online at uwinnipeg.ca or pick up an Application for Admission from your high school counsellor's office or the Admissions Office at The University of Winnipeg. To meet Scholarship deadline submit your application and \$80 application fee by **March 1st**.

HOW TO APPLY – International Student

Apply online at uwinnipeg.ca/index/intl-apply and submit all official documents by mail. To meet Scholarship deadline submit application, fee, and documents by **March 1st**. International application fee is \$100, which includes a one-time courier fee.

CONTACT US

Dr. Mirjana Roksandic
Program Coordinator
Phone: 204.786.9927
Fax: 204.774.4134
Email: m.roksandic@uwinnipeg.ca



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