



FACULTY OF SCIENCE

## BIOANTHROPOLOGY

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**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.**

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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'll gain an understanding of comparative anatomy, cellular biology, and methods in human and primate evolution and archaeology, and 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 **Bachelor of Science degree (3-year, 4-year, Honours)**.

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### 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

**Introduction to Forensic Anthropology**, a second-year course, 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.

**Human Osteology** is a third year course that covers basic human osteological development and identification. Emphasis is on the laboratory identification of complete and incomplete human skeletal material.

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**Evolution, Ecology, and Biodiversity**, a first-year Biology 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.

### **MORE SAMPLE COURSES**

- **International Field School**
- **Human Evolution**
- **Zooarchaeology**
- **Comparative Animal Physiology**
- **Genetics**
- **Organic Chemistry**
- **Molecular Genetics**

### **SAMPLE FIRST YEAR**

ANTH-1003(3) **Introductory Biological Anthropology and Archaeology**  
ANTH-1002(3) **Introductory Cultural Anthropology and Linguistics**  
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 Statistics I**  
**6 credit hours Humanities, depending on interest**

***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.*

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### **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**

For details on application requirements and deadlines, and to apply online, please visit: [uwinnipeg.ca/apply](http://uwinnipeg.ca/apply)

For more information contact a student recruitment officer at [welcome@uwinnipeg.ca](mailto:welcome@uwinnipeg.ca) or 204.786.9844. In any case where The University of Winnipeg Academic Calendar and this fact sheet differ, the current Calendar takes precedence.

### **CONTACT US**

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