Biological Anthropology is an anthropological sub discipline in which the genes, physiology, and behaviour of humans and other primates are studied with the conceptual and methodological tools of biology. An evolutionary, historical, and applied science, it has five main areas of inquiry: palaeoanthropology, primatology, bioarchaeology, human biology, and forensic anthropology.

The Department of Archaeology now offers a certificate in biological anthropology, tailored to the educational and experiential interests of archaeology students and other students in the university who complete a concentration of studies in biological anthropology and other related courses.

The Department of Archaeology has a strong contingent of Biological Anthropologists who will teach the core ARCH courses and upper level ARCH and HSCI electives for this program. These include:

- Dr. Hugo Cardoso (Human Osteology, Growth, and Health / Forensic Anthropology)
- Dr. Mark Collard (Canada Research Chair in Human Evolutionary Studies)
- Dr. Binh-Guildika (Primatology)
- Dr. Deborah Merritt (Human Osteology / Palaeopathology)
- Dr. Pablo Nepomnaschy (Women’s Reproductive Ecology and Child Development)
- Dr. Dennis Sandgathe (Palaeoanthropology, Palaeolithic Archaeology / Neanderthals)
- Dr. Dongya Yang (Molecular Bioarchaeology / Ancient DNA)

This group of researchers and instructors are also involved in a range of ongoing research projects in which senior undergraduate students are often given the opportunity to participate. In recent years, these have ranged from excavations at Neanderthal sites in France, analyses of human remains from cemetery sites in Portugal, and fieldwork with Mayan indigenous communities in rural Guatemala to on-campus osteological analyses of archaeological skeletal remains and participation in the SFU Human Evolutionary Studies Program.

Students who earn the certificate in conjunction with a Major in a related discipline will be well prepared for graduate studies in the field of biological anthropology in departments of anthropology, archaeology, genetics, health sciences, medicine, biology, and zoology and/or employment within a variety of government and private organizations. This includes government labs and research institutes, health and medical care institutions, museums, national and international conservation groups, zoos, international development agencies, human rights organizations, forensic and archaeological consulting firms, and other private consulting businesses.
Students complete at least 27 units as set out below, with a minimum 2.25 GPA calculated on grades in the certificate program courses.

Students are responsible for meeting the prerequisite requirements for courses used toward the certificate.

**CERTIFICATE REQUIREMENTS**

**STUDENTS MUST COMPLETE ALL OF:**

- **ARCH 131-3** Human Origins
- **ARCH 373-5** Human Osteology*

**AND ONE OF:**

- **BISC 101-4** General Biology
- **BISC 102-4** General Biology

**AND ONE OF:**

- **ARCH 376-5** Quantitative Methods in Archaeology
- **STAT 305-3** Introduction to Biostatistical Methods for Health Sciences

**AND THREE OF:**

- **ARCH 322-3** Special Topics in Biological Anthropology I
- **ARCH 323-3** Special Topics in Biological Anthropology II
- **ARCH 344-3** Primate Behaviour
- **ARCH 383-3** Molecular Bioarchaeology
- **ARCH 385-5** Palaeoanthropology
- **ARCH 452-5** Introduction to Palaeopathology**

*minimum of a B in ARCH 373.

**ADDITIONAL COURSES (minimum of 3 units)**

Students must complete **one** additional course from the list:

- **ARCH 322-3** Special Topics in Biological Anthropology II*
- **ARCH 323-3** Special Topics in Biological Anthropology II*
- **ARCH 344-3** Primate Behaviour**
- **ARCH 383-5** Palaeoanthropology**
- **ARCH 435-6** Field Work Practicum***
- **ARCH 442-5** Forensic Anthropology
- **ARCH 452-5** Forensic Anthropology**
- **BISC 101-4** General Biology
- **BISC 102-4** General Biology
- **BISC 202-3** Genetics
- **BISC 300-3** Evolution
- **BISC 302W-3** Genetic Analysis
- **BISC 314-4** Vertebrate Biology
- **BISC 333-3** Developmental Biology
- **BISC 410-3** Behavioural Ecology
- **BISC 422-3** Population Genetics
- **BISC 466/466W-3** Biodiversity
- **BISC 461-3** Evolution of Health and Disease
- **BPK 105-3** Fundamentals of Human Structure and Function
- **BPK 110-3** Human Nutrition: Current Issues
- **BPK 303-3** Kinanthropometry
- **BPK 326-4** Functional Anatomy
- **BPK 375-3** Human Growth and Development
- **CRIM 357-3** Forensic Anatomy
- **EASC 310W-3** Palaeontology
- **OEED 386-4** Health Geography
- **HSDI 214-3** Ecological Determinants of Human Growth, Development and Health
- **HSDI 324-3** Human Population Genetics and Evolution
- **MBB 222-3** Molecular Biology and Biochemistry
- **MBB 231-3** Cellular Biology and Biochemistry
- **MBB 462-3** Human Genomics
- **PSVC 280-3** Introduction to Biological Psychology
- **PSVC 385-3** Evolution and Psychology
- **SA 218-4** Illness, Culture and Society
- **SA 318-4** The Anthropology of Medicine
- **SA 418-4** International Health: Global Policies and Local Realities

**Students must complete a minimum of 12 units at Simon Fraser University. Students are responsible for meeting the prerequisite requirements for courses used toward the certificate.**

*if not counted above.

**when topic is applicable to biological anthropology.**

Students must complete a minimum of 12 units at Simon Fraser University. Students are responsible for meeting the prerequisite requirements for courses used toward the certificate.