

2009-2010

B.S. in Biology/Anthropology

College of Humanities and Social Sciences
College of Sciences and Technology

What Is the Study of Biology/Anthropology?

Biological or Physical Anthropology is the study of both present and past human variation relative to local ecologies and cultures. Biological Anthropologists specialize in Human or Primate Anatomy, Genetics, Disease Ecology, growth and development, Forensic Anthropology and Osteology, Medical Anthropology, Primate Behavior, and Paleoanthropology.

Biology, the scientific study of living things, includes a broad spectrum of fascinating fields. Cell and Molecular Biology, Developmental Genetics, Systematics and Evolution, Botany, Zoology, Marine Biology, Microbial Ecology, Plant Ecology, Animal Ecology, Physical Ecology, Physiological and Behavioral Ecology and Science Education are some of the specialties of study that students can pursue with the Biology faculty at Western.

Why Should I Consider This Major?

The Biology/Anthropology major concentrates on human biology and behavioral science. This major is most useful for those continuing on in applied health such as: Medicine, Osteopathy, Optometry, Dentistry, etc. It is also useful for Epidemiology, public health and graduate programs in Human Biology and Biological Anthropology.

How to Declare:

Consult Department advisors in Biology or Anthropology as early as possible. Early advisement will ensure appropriateness and proper sequencing of courses.

Mid-Program Checkpoint:

Students intending to complete a Bachelor's of Science degree in Biology/Anthropology within four years should complete the following courses by the start of their junior year. Students are expected to follow all prerequisite requirements for courses and seek early departmental advisement.

Coursework:

ANTH 201, 210, 215
BIOL 204, 205, 206
CHEM 121, 122, 123 or 125, 126, 225
MATH 124
PHYS 114, 115

Other Activities:

Meet with Departmental advisor or Academic Advising Center by the time you reach 60 credits regarding choice of major.

Contact Information:

Biology Department Website:
<http://www.biol.wvu.edu/biology/>

Anthropology Department Website:
<http://www.ac.wvu.edu/~anthro/>

Anthropology Program
Advisors:
Joan Stevenson
AH 316 (360)650-4787
Joan.Stevenson@wwu.edu

Michael Grimes
AH 324 (360)650-3614
Michael.Grimes@wwu.edu

Biology Program Advisor:
Roger Anderson
BI 311 (360)650-3992
Roger.Anderson@wwu.edu

Biology Undergraduate
Advisor:
Kim Kolb Ayre
BI 315 (360) 650-6165
Kim.Kolb@wwu.edu

Sample Careers:

Applied Health Tracks
Human Biology and
Physiology



Biology/Anthropology Major Requirements: 101-104 Credits

Biology Phase II status required for admission into 300- and 400-level biology courses for biology majors.

Supporting Courses: 34-37 required credits.

(Credits for recommended supporting courses cannot be applied toward credits in major).

CHEM 121, 122, 123 General Chemistry I, II, III (5, 5, 4)

Or CHEM 125, 126, 225 General Chemistry, Honors (5, 5, 5)

CHEM 351

And 352 Organic Chemistry (4, 4)

Or CHEM 251 Elementary Organic Chemistry (5) with advisor approval

[CHEM 353 and 354 Organic Chemistry Labs are recommended]

PHYS 114, 115 Principles of Physics I, II (5, 5)

[PHYS 116 Principles of Physics III (5) recommended]

Or PHYS 121, 122, 123

MATH 124 Calculus and Analytic Geometry (5)

Or MATH 134 Honors Calculus I (5)

Or MATH 138 Accelerated Calculus (5)

Basic requirements: Biology 14 credits

BIOL 204 Introduction to Evolution, Ecology and Biodiversity (4)

BIOL 205 Introduction to Cellular and Molecular Biology (5)

BIOL 206 Introduction to Organismal Biology (5)

Basic requirements: Anthropology 15 credits

ANTH 201 Introduction to Cultural Anthropology (5)

ANTH 210 Introduction to Archaeology (5)

ANTH 215 Introduction to Biological Anthropology (5)

Breadth requirements: 16-19 credits

BIOL 321 Genetics (4)

BIOL 325 Ecology (3)

Or ANTH 350 The Ecology of Human Variation (5)

BIOL 340 Biometrics (5)

Or ANTH 335 Quantitative Methods in Anthropology (5)

BIOL 432 Evolutionary Biology (4)

Or ANTH 423 Human Evolution (5)

Depth requirements: 12-15 credits

BIOL 348 Human Anatomy and Physiology (5)

BIOL 349 Human Physiology (5)

Or BIOL 467 Comparative Vertebrate Physiology (5)

One of the following:

ANTH 308 Hunter-Gatherer Societies in World Prehistory (4)

ANTH 422 Nutritional Anthropology (5)

ANTH 424 Medical Anthropology (5)

BIOL 410 Animal Behavior (4)

Electives: 3-9 credits to make 66 total credits when combined with the required Biology and Anthropology courses:

BIOL 323, 322 or 324, 345, 410, 465, 467

ANTH 308, 422, 424, 466

Other electives under advisement

Completion requirement:

ANTH 496 Portfolio Assembly (1)

These courses are required (or advised) for this major and may be used to satisfy GUR or Writing Proficiency requirements.

QSR: ANTH 335; MATH 124

SSC: ANTH 201, 210

LSCI: ANTH 215; BIO 204, 205; CHEM 121, 122, 123

WP: Three Writing Proficiency points are required for graduation (they are noted as WP1, WP2, and WP3). Check [Classfinder](#) or [Online Timetable](#) for departmental offerings each quarter.

Other Options:

B.A. Anthropology (65 credits)

B.A. Anthropology/Archaeology (80 credits)

B.A. Anthropology/Biology (89)

B.A. Anthropology/Social Studies (86-88 credits)

B.A. Anthropology—Biocultural Concentration (95-98 credits)

B.A. Behavioral Neuroscience (110-111 credits)

B.A. Biology (74 credits)

B.S. Biology (90-95 credits)

B.S. Cellular and Molecular Biology/Biochemistry (106 credits)

B.S. Biology/Mathematics (104-105 credits)

B.A.Ed in Biology/Chemistry—Secondary (103-107 credits plus certification program)

B.A.Ed. In Anthropology—Elementary (45 credits plus 107 for Elementary Education Professional Program)

Minor in Anthropology (25 credits)

Minor in Biology (43 credits)