

# EBH

## Human Evolutionary Biology

### EBH 204: Research Skills

Gives students an understanding of and experience with the basic research skills that are needed to do biological and anthropological research. The course includes practical skills in reading and understanding anthropological and biological scientific literature, presentation skills, making scientific posters in biology and anthropology, writing complex arguments, and database management. The accompanying lab section introduces the software that is used to acquire these skills and provides students with practical experience in using them with respect to their own research interests.

*Prerequisite: one course chosen from the following: ANP 120, ANT 104, BIO 201, BIO 202, BIO 203*

**SBC:** ESI, SPK

3 credits

### EBH 230: Computer-based Biostatistics

An introductory course in statistical analyses, specifically focusing on techniques relevant to research designs in the biological and anthropological sciences. The accompanying lab section will provide students with practical experience in using statistical software to run analyses. This course is offered as both ANP 230 and EBH 230.

*Prerequisite: satisfaction of entry skill in mathematics requirement or level 2+ on the mathematics placement examination*

**DEC:** C

**SBC:** QPS

4 credits

### EBH 331: Hormones and Behavior

Examines the relationship between hormones and behavior, both in terms of how hormones affect behavior, and how behavioral interactions can alter hormones. Because hormonal structure and function is remarkably conserved across vertebrates, we will take a comparative approach, exploring data from a variety of vertebrate model systems, while maintaining a keen eye on how such models inform of us about hormones and behavior in humans and non-human primates. Topics to be explored include sex determination, reproductive behavior, personality, dominance and aggression, biological rhythms, the stress response, and the role of endocrine disrupting chemicals in behavior.

*Prerequisite: one of the following courses: ANP 120, BIO 201, BIO 202, BIO 203, PSY 250*

**SBC:** STEM+

3 credits

### EBH 359: Behavioral Ecology

A consideration of the patterns of animal behavior in relation to ecological circumstances and evolutionary history. Vertebrate examples are emphasized. This course is offered as both BIO 359 and EBH 359.

*Prerequisites: BIO 201; BIO 203*

3 credits

### EBH 380: Human and Primate Genomics

An introduction to the rapidly developing field of primate genomics. Initial lectures provide a foundation in primate diversity, the motivation for their study, how a genome is sequenced and basic phylogenetic approaches. This is followed by discussion of the key findings from recent primate genome projects, beginning with the main features of the human genome, before moving on to the genomes of other primates. We then focus on specific topics from the perspective of primate genomics such as structural variation, sex chromosome evolution, and how non-human primate genomics relates to human health.

*Prerequisite: BIO 201, BIO 202, and BIO 302  
Advisory Prerequisite: BIO 204, BIO 312, and BIO 211*

3 credits

### EBH 391: Topics in Human Evolutionary Biology

Discussion of a topic of current interest in Human Evolutionary Biology. May be repeated as the topic changes.

*Prerequisite: ANP 200 or ANP 201 or BIO 302*

*Advisory prerequisite: One other EBH or ANP course*

3 credits

### EBH 401: Seminar in Evolutionary Biology of Humans

Research and discussion of selected topics in evolutionary biology of humans. May be repeated as the topic changes.

*Prerequisite: permission of the instructor*

3 credits

### EBH 447: Readings in Human Evolutionary Biology

Individual advanced readings on selected topics in Human Evolutionary Biology.

May be repeated up to a limit of 6 credits, but not more than two credits may be used toward Human Evolutionary Biology major requirements.

*Prerequisite: Permission of instructor and department*

1-2 credits, S/U grading

### EBH 475: Undergraduate Teaching Practicum I

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. Not for Human Evolutionary Biology Major credit

*Prerequisite: U3 or U4 standing; Human Evolutionary Biology Major; 3.00 g.p.a.; permission of instructor and department*

**SBC:** EXP+

3 credits, S/U grading

### EBH 476: Undergraduate Teaching Practicum II

Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. The course in which the student is permitted to work as a teaching assistant must be different from the course in which he or she previously served. Not for Human Evolutionary Biology Major credit.

*Prerequisite: U3 or U4 standing; Human Evolutionary Biology Major; 3.00 g.p.a.; permission of instructor and department*

**SBC:** EXP+

3 credits, S/U grading

### EBH 487: Independent Research in Human Evolutionary Biology

Independent research projects carried out by upper-division students. The student must propose the research project, carry it out, analyze the data, and submit the results in a written form acceptable to the sponsor. May be repeated up to a limit of six credits, but no more than three credits of research may be used for Human Evolutionary Biology Major requirements.

*Prerequisite: 15 credits in Human Evolutionary Biology; permission of instructor*  
0-6 credits, S/U grading

### EBH 488: Internship in Human Evolutionary Biology

Participation in state, local, and national public and private agencies and organizations. Students are required to submit written progress reports and a final written report on their experiences to the faculty sponsor and the department. May be repeated to a limit of 12 credits. Not for Human Evolutionary Biology Major credit.

*Prerequisite: 15 credits in Human Evolutionary Biology; permission of instructor*

**SBC:** EXP+

*0-6 credits, S/U grading*

### **EBH 495: Senior Honors Project in Human Evolutionary Biology**

First course of a two-semester project for EBH majors who are candidates for the degree with honors. Arranged in consultation with the director of undergraduate studies, the project involves independent readings or research and the writing of a paper under the close supervision of an appropriate faculty member on a suitable topic selected by the student. Students enrolled in EBH 495 are obliged to complete EBH 496 the following semester. Students receive only one grade upon completion of the sequence EBH 495-496.

*Prerequisite: admission to the Human Evolutionary Biology honors program*

*3 credits*

### **EBH 496: Senior Honors Project in Human Evolutionary Biology**

Second course of a two-semester project for EBH majors who are candidates for the degree with honors. Arranged in consultation with the director of undergraduate studies, the project involves independent readings or research and the writing of a paper under the close supervision of an appropriate faculty member on a suitable topic selected by the student. Students receive only one grade upon completion of the sequence EBH 495-496.

*Prerequisite: EBH 495 and admission to the EBH honors program*

*3 credits*