

San José State University

COSS/ANTH

ANTH012, Introduction to Human Evolution, Section 3, Spring 2022

Course and Contact Information

Instructor(s): Professor Elizabeth Weiss
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Office Hours: T, R 1200-1300
Class Days/Time: T, R 0900-1015
Classroom: WSQ004
GE/SJSU Studies Category: B2/Life Science

Course Description

The human organism from an evolutionary perspective. The foundations of life and evolutionary theory. Introduction to primate behavior and the fossil record. Human biocultural evolution over the last sixty million years. There are no prerequisites to take this course.

GE Learning Outcomes (GELO)

To fulfill the GE writing requirement students will write three 2-page (500 words) essays. Each writing assignment is a take-home assignment and will be handed in as a printed version in class.

Both the writing assignments and exam questions will be utilized to assess GE learning outcomes. Upon successful completion of this course, students will be able to:

1. use methods of science and knowledge derived from current scientific inquiry in life or physical science to question existing explanations;
2. demonstrate ways in which science influences and is influenced by complex societies, including political and moral issues; and
3. recognize methods of science, in which quantitative, analytical reasoning techniques are used.

Course Learning Outcomes (CLO)

The most important contribution this course can make to your education is to provide you with greater ability to think critically. This skill will contribute permanently to your further education and for the rest of your life.

Upon successful completion of this course, students will be able to:

CLO1 explain the evolutionary process, how it works, and how scientists have come to understand the process (specifically to understand ourselves).

CLO2 describe the evolutionary history of our species and the biological bases that are at the foundation of this process.

CLO3 comprehend basic biological knowledge relating to molecular biology, cell reproduction, fundamental principles of micro- and macro-evolutionary theory (especially the role of natural selection), and the intellectual background leading to the development of evolutionary theory.

CLO4 explain from a comparative perspective how humans are related to other primates (and what this implies structurally, physiologically, and behaviorally).

Required Texts/Readings

The Human Organism: Explorations in Biological Anthropology (Second Edition); Cognella Publishers

Print Price: \$106.45

Ebook Price: \$84.95

Purchase at <https://store.cognella.com/81311-2A-NI-008>, the University bookstore, online booksellers (like Amazon.com), or borrow through the library:

<https://ebookcentral.proquest.com/lib/sjsu/detail.action?docID=6123756&pq-origsite=primo>

This is a no cost ebook; you must be logged in using your SJSU ID.

Note: This ebook has a limited number of concurrent users; if you see a message that the limit for the ebook has been reached, you will need to wait until one of the users finishes with the ebook before you can access it. There is a waiting list function that will send a notification when the book becomes available.

Course Requirements and Assignments

“Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally three hours per unit per week) for instruction, preparation/studying, or course related activities, including but not limited to internships, labs, and clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus.”

Preparation and participation requirements. Read the text prior to coming to class, complete the activity sheets at the end of each chapter, and come with questions.

Exam requirements. There will be three exams and a comprehensive final exam. Exam questions are designed to assess course and GE learning objectives.

Writing requirements. There will be three 500-word papers. Writing assignments must be turned in as a printed version at the beginning of class. Topics and requirements will be discussed in detail in class and are designed to address the GE learning objectives. Writing assignments will be graded in accordance to GE guidelines, which states that “writing shall be assessed for grammar, clarity, conciseness and coherence.”

There will be extra credit opportunities, which are based on preparedness for the review sessions.

Final Examination or Evaluation

There will be a comprehensive final exam given at the scheduled final exam time.

Grading Information

Grades will be based on the following (each is graded on a scale of 100):

Writing Assignments	3 X 10%	=	30%
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Exams	3 X 15%	=	45%
Final Exam	1 X 25%	=	25%
Total			100%

Grading is as followed:

A	B	C	D	F
97-100% = A plus 91-96% = A 90% = A minus	87-89% = B plus 81-86% = B 80% = B minus	77-79% = C plus 71-76% = C 70% = C minus	67-69% = D plus 61-66% = D 60% = D minus	Below 60% = F

*A D minus is a passing grade.

Make-up Work: If you know in advance that you are unable to attend an exam, contact me to set up a time to take the exam prior to its scheduled date. Requests for extensions will be dealt on a case-by-case basis, but in most circumstances only students who were ill or have another valid documented excuse will be able to take an exam (including the final) or submit an assignment late. The final will be given on the scheduled time.

Classroom Protocol

I consider my students adults. Attendance is optional. When one attends lecture, one should behave appropriately and pay attention. If one feels that they cannot pay attention for the entire period (for whatever reason), then one should not attend class.

University Policies

Per [University Policy S16-9](#), relevant university policy concerning all courses, such as student responsibilities, academic integrity, accommodations, dropping and adding, consent for recording of class, etc. and available student services (e.g. learning assistance, counseling, and other resources) are listed on [Syllabus Information web page \(https://www.sjsu.edu/curriculum/courses/syllabus-info.php\)](https://www.sjsu.edu/curriculum/courses/syllabus-info.php). Make sure to visit this page to review and be aware of these university policies and resources.

ANTH012-03/Introduction to Human Evolution, Spring 2022, Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1	1/27	Introduction to the class
2	2/1	Topic: History of Evolutionary Theory Reading: Chapter 1, pp. 1-9 (Including Case Study)
	2/3	Topic: Natural Selection and Evidence of Evolution Reading: Chapter 1: pp. 9-15
3	2/8	Topic: Discussion of <i>Origin of Species</i> , Chapter XIII Assignment Discussed: Writing Assignment 1 Reading: Reading 1: pp. 19-30
	2/10	Topic: Mendelian Genetics Reading: Chapter 2: pp. 33-40; Reading 2: pp. 49-55
4	2/15	Topic: Modern Synthesis (Including Case Study)

Week	Date	Topics, Readings, Assignments, Deadlines
		Reading: Chapter 2: pp. 40-45
	2/17	Topic: Cells, DNA, and Protein Synthesis Reading: Chapter 3: pp. 57-64
5	2/22	Topic: Molecular Anthropology and Evolutionary Medicine Reading: Chapter 3: pp. 64-68 (Including Case Study); Reading 3: pp. 70-77 Assignment Due: Writing Assignment 1
	2/24	Exam 1 Review
6	3/1	Exam 1
	3/3	Topic: General Primate Characteristics Assignment Discussed: Writing Assignment 2 Reading: Chapter 4: pp. 79-82
7	3/8	Topic: Prosimians and Tarsiers Reading: Chapter 4: pp. 82-86 (Including Case Study)
	3/10	Topic: New World Monkeys Reading: Chapter 4: pp. 86-91
8	3/15	Topic: Old World Monkeys and Apes Reading: Chapter 4: pp. 91-97
	3/17	Topic: Primates as Models for Human Evolution Reading: Chapter 4: pp. 97-97; Reading 4: pp. 102-107 Assignment Due: Writing Assignment 2
9	3/22	Exam 2 Review
	3/24	Exam 2
10	3/29	SPRING BREAK
	3/31	SPRING BREAK
11	4/5	Topic: Fossils and Contenders for the earliest hominid Assignment Discussed: Writing Assignment 3 Reading: Chapter 5: pp. 111-121
	4/7	Topic: Australopithecines: Graciles and Robusts Reading: Chapter 5: pp. 122-129
12	4/12	Topic: Early <i>Homo</i> and Oldowan tools Reading: Chapter 5: pp. 129-134 (Including Case Study); Reading 5: pp. 138-142
	4/14	Topic: <i>Homo erectus</i> and sibling species Reading: Chapter 6: pp. 145-156
13	4/19	Topic: The Hobbit Trap Readings: Reading 6: 160-163
	4/21	Topic: <i>Homo heidelbergensis</i> Reading: Chapter 7: pp. 165-170
14	4/26	Topic: Neanderthals and Modern Humans Reading: Chapter 7: pp. 170-180 (Including Case Study); Reading 7: pp. 184-192

Week	Date	Topics, Readings, Assignments, Deadlines
		Assignment Due: Writing Assignment 3
	4/28	Exam 3 Review
15	5/3	Exam 3
	5/5	Topic: Human Variation and Adaptation Reading: Chapter 8: pp. 197-204; Reading 8: pp. 214-220
16	5/10	Topic: Human Life Cycle Reading: Chapter 8: pp. 204-210
	5/12	Review Day - Last Day of Class
Final Exam	5/23	Monday, May 23 rd , in WSQ004, 0715-0945