ANTH 12
Introduction to Human Evolution

Spring 2019, Section 5 (26903)
San José State University
Department of Anthropology/ College of Social Sciences

Course and Contact Information

Instructor:	Gustavo Flores
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Office Hours:	Wednesday 11:00 am to 12:00pm or by appointment
Class Days/Time:	Mondays and Wednesday 9:00-10:15am
Classroom:	WSQ 04
GE/SJSU Studies Category:	B2/Life Science

Canvas and MYSJSU Messaging

Course materials such as syllabus, handouts, notes, assignment instructions, etc. can be found on Canvas Learning Management System course login website at http://sjsu.instructure.com.

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. Prerequisites: None

Course Goals

Goals of this class is to get you to think like scientists, to be skeptical, to be inquisitive, and to actually build a foundation of understanding physical anthropology. Besides reading the text book and taking exams, you will be required to conduct a group presentation. Finally, you will be required to conduct a small field research

project. Working as a primatologist, you will be planning and conducting research and, in doing so, you will be gaining valuable experience by writing and presenting your results, something that is an important skill to learn.

GE Learning Outcomes (GELO)

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

LO1: use methods of science and knowledge derived from current scientific inquiry in life or physical

science to question existing explanations;

LO2: demonstrate ways in which science influences and is influenced by complex societies, including

political and moral issues;

LO3: recognize methods of science, in which quantitative, analytical reasoning techniques are used.

Course Learning Outcomes (CLO) (Required)

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 Introduction to Human Evolution, 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

Textbook

Essentials of Physical Anthropology 3rd edition, Clark Spencer Larsen. Norton and New York company

ISBN: 978-0-393-93866

Other Readings

Supplementary course readings or handouts in PDF format. Available on the course Canvas page.

Course Requirements

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 3 hours per unit per week with 1 of the hours used for lecture) for instruction or preparation/studying or course related activities including but not limited to completing assignments, labs, clinical practica, and so on. Other course structures will have equivalent workload expectations as described in the syllabus. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf.

Course assignments and Grading Information

This course must be passed with a C or better as an SJSU graduation requirement.

GRADING POLICY AND EVALUATION	**Points**	
Reflections/ Activities – 15 - write a brief 300 – 500 words reflection which will discuss the article. This will be due at the start of class. -This course includes participation in class discussions and in-class exercises that will be turned in during class. In-class exercises cannot be made up if missed.	150	25%
GROUP PRESENTATIONS: Students will be assigned into groups in the first week. Each group will develop a 5 minutes class presentation on one of the articles assign to the group. To make this as painless and easy as possible you will use PowerPoint to outline the main points. In your presentation you will include **three** thought provoking question for class discussion	20	15%
Primate Project-You will visit one of the many zoos in the Bay Area and conduct a brief primate observation. (This will be described in a hand out.)	100	20%
Midterm-Chapters 1-7, Films, lectures	75	20%
Final-Chapters 8-13, Films, lectures	75	20%
Total	420	**100 %**

Final examination description:
Faculty members are required to have a culminating activity for their courses, which can include a final examination, a final research paper or a project, a final creative work or performance, a final portfolio of work, or other appropriate assignment.

Reflections: <u>At least 3 paragraphs</u>

- At least one paragraph summarizing the main argument(s) of the reading.
- At least one paragraph critically evaluating the reading. For example, what did you think of the author's argument? What are the reading's strong and weak points?
- At least one paragraph explaining how the reading connects to either, another reading/topic, academic subject, pop culture or your own life experience.

Below are basic guidelines for grading. Letter grades will be assigned based on score percentages, as follows:

Grade	*Points*	*Percentage*
A plus	*960 to 1000*	*96 to 100%*
A	*930 to 959*	*93 to 95%*
A minus	*900 to 929*	*90 to 92%*
B plus	*860 to 899*	*86 to 89 %*
B	*830 to 829*	*83 to 85%*
B minus	*800 to 829*	*80 to 82%*
C plus	*760 to 799*	*76 to 79%*
C	*730 to 759*	*73 to 75%*
C minus	*700 to 729*	*70 to 72%*
D plus	*660 to 699*	*66 to 69%*
D	*630 to 659*	*63 to 65%*
D minus	*600 to 629*	*60 to 62%*

Classroom Protocol

Your Responsibilities

1. Come to lecture.
2. Do the assigned reading before class.
3. Keep up with the assignments and short homework.
4. Be interested and ask questions

Classroom Expectation:
Be on Time: It is expected that you will arrive on time to class sessions. Please do not use your cell phones during class, do not work on other assignments, and keep conversations relevant to class discussions. WHY THESE POLICIES? Disruption in classes prevents good teaching and learning.

Assignments: This course includes participation in class discussions and in-class exercises that will be turned in during class. In-class exercises cannot be made up if missed. It is expected that students will complete course readings before class, ask questions, and be prepared to contribute.

Only students with a valid, documented excuse will be able to take an exam or submit an assignment late. Grades will be deducted by 2 points for every day an assignment is late.

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' Syllabus Information web page at http://www.sjsu.edu/gup/syllabusinfo/"

ANTH12 / Introduction to Human Evolution, Spring 2019, Course Schedule

This schedule is subject to change with fair notice, any changes will be announced in class or by Canvas email.

Course Schedule

Week	/Date	Topics, Readings, Assignments, Deadlines
1	1/28	Welcome Introduction *What is anthropology?*
1	1/30	*What is Anthropology?* *What is Physical anthropology?* **READ**: Larsen Ch. 1
2	2/4	*The Scientific Method* What makes humans so different from other animals? **Activity:** Just a Theory
2	2/6	**Article Due and Group presentation:** The Truth without Certainty Evolution and Darwin **READ**: Larsen Ch. 2
3	2/11	*The Evolutionary Synthesis*
3	2/13	*The Cell and DNA* ***READ**: Larsen Ch. 3* ***ARTICLE DUE and Student Presentation**: Physical Anthropology: It's scope and Aims; its History and Present Status in America*
4	2/18	*The Other function of DNA* *Population Genetics* ***READ**: Larsen Ch. 4* ***ACTIVITY**: Ghost in your genes*
4	2/20	**Article due Group Presentation**: The New Physical Anthropology
5	2/25	Natural Selection in Humans
5	2/27	***Article due and* Group Presentation:** *Evolution in Action* *Growth and Development, Adaptation* **READ**: Larsen Chapter 5
6	3/4	Is Race a Valid, Biologically Meaningful concept? **ACTIVITY**: The Story We Tell-The Power of an Illusion

Week	/Date	Topics, Readings, Assignments, Deadlines
6	3/6	***Article due and Group Presentation:*** *Lactose and Lactose* What is a Primate? Primate Adaptation **READ**: Larsen Ch. 6
7	3/11	Kinds of Primates: Strepsirhini Kinds of primates: Haplorhini Quadrupedalism Vs Bipedalism ***Activity:*** *Altruism* *Begin primate project*
7	3/13	Primate Societies ***READ****: Larsen Ch. 7*
8	3/18	Primate Societies
8	3/20	**ACTIVITY**: *Among the Wild Chimpanzees*
9	3/25	**Midterm** *Chapters 1-7, films, lectures, articles,maps*
9	3/27	Fossils - Dating methods: Relative and Numerical Age **READ**: Larsen Ch. 8 **Article due and Group Presentation**: The Fossils Say Yes **Student Presentations**
Week 10 M-W	**Spring Recess**	**Spring Recess**
11	4/8	Why did the primates emerge? **READ**: Larsen Ch. 9 Early Anthropoids and Apes **Primate Project is Due**
11	4/10	What is a Hominin? **READ**: Larsen Ch. 10 **Article due and Group presentation**: Salem
12	4/15	The Pre-Australopithecines Dawn of humanity
12	4/17	Australopithecines **Article due and Group presentation:** New fossils challenge line of descent in Human Family Tree
13	4/22	Early Genus Homo and Homo erectus **READ**: Larsen Ch. 11

Week	/Date	Topics, Readings, Assignments, Deadlines
13	4/24	Modern Homo Sapiens **READ** Larsen Ch. 12
14	4/29	Neandertal **Article due Group Presentations:** The Dawn of Stone Age Genomics **Student Presentations**
14	5/2	Modern Humans First Peoples: Africa
15	5/6	Western Hemisphere Migrations The domestication of plants and animals **READ**: Larsen Ch. 13 **Activity**: The Ancient One
15	5/8	Agriculture and Human Biology
16	5/13	Evolution Now
17	5/16	**Final Exam** Time: 7:15-9:30 am.