

**The Ohio State University**  
**Colleges of the Arts and Sciences Course Change Request**

Anthropology

Academic Unit

Anthropology

603.03

Book 3 Listing (e.g., Portuguese)

Course Number

Summer      Autumn      Winter      Spring X      Year 2007

**Proposed effective date:** choose one quarter and put an "X" after it; and fill in the year. See the OAA curriculum manual for deadlines.

**A. Course Offerings Bulletin Information.** Follow instructions in the OAA curriculum manual. Before you fill out the "Present Course" information, be sure to check the latest edition of the *Course Offerings Bulletin* and subsequent Circulating Forms. You may find that the changes you need have already been made or that additional changes are needed. If the course offered is less than quarter or term, please also complete the Flexibly Scheduled/OffCampus/Workshop Request form.

**COMPLETE ALL ITEMS THIS COLUMN**

**Present Course**

1. Book 3 Listing: \_\_\_\_\_
2. Number: \_\_\_\_\_
3. Full Title: Dental Anthropology \_\_\_\_\_
4. 18-Char. Transcript Title: \_\_\_\_\_
5. Level and Credit Hours \_\_\_\_\_
6. Description: *Currently no description*  
(25 words or less) \_\_\_\_\_  
\_\_\_\_\_
7. Qtrs. Offered : \_\_\_\_\_
8. Distribution of Contact Time:  
(e.g., 3 cl, 1 3-hr lab) \_\_\_\_\_
9. Prerequisite(s): \_\_\_\_\_  
\_\_\_\_\_
10. Exclusion:  
(Not open to....) \_\_\_\_\_
11. Repeatable to a maximum of \_\_\_\_\_ credits.
12. Off-Campus Field Experience: \_\_\_\_\_
13. Cross-listed with: \_\_\_\_\_
14. Is this a GEC course? \_\_\_\_\_
15. Grade option (circle): Ltr    S/U    P  
If P graded, what is the last course in the series?
16. Is an honors version of this course available? Y  N   
Is an Embedded Honors version of this course  
available?      Y  N
17. Other general course information: \_\_\_\_\_

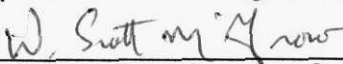

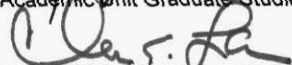
**COMPLETE ONLY THOSE ITEMS THAT CHANGE**  
**Changes Requested**

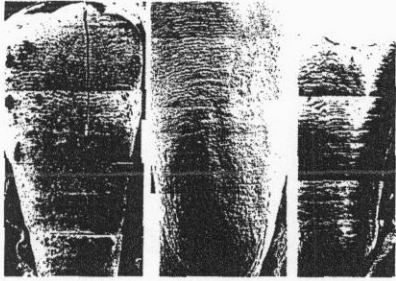
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. Evolutionary anthropology of human and non-human primate teeth.  
\_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_

**B. General Information**

1. Do you want the prerequisites enforced electronically (see the OAA manual for what can be enforced)?  
\_\_\_\_\_
2. Does this course currently satisfy any GEC requirement, if so indicate which category?  
\_\_\_\_\_
3. What other units require this course? Have these changes been discussed with those units?  
\_\_\_\_\_
4. Have these changes been discussed with academic units that might have a jurisdictional interest in the subject matter? Attach relevant letters.  
\_\_\_\_\_
5. Is the request contingent upon other requests, if so, list the requests?  
\_\_\_\_\_
6. **Purpose of the proposed change. (If the proposed change affects the content of the course, attach a revised syllabus and course objectives and e-mail to [asccurrofc@osu.edu](mailto:asccurrofc@osu.edu).)**  
Currently there is no course description in the bulletin.  
\_\_\_\_\_
7. Please list Majors/Minors affected by the proposed change. Attach revisions of all affected programs. This course is (check one):  
 Required on major(s)/minor(s)       A choice on major(s)/minors(s)  
 An elective within major(s)/minor(s)       A general elective:  
 \_\_\_\_\_
8. Describe any changes in library, equipment or other teaching aids needed as a result of the proposed change or if the proposed change involves budgetary adjustments, describe the method of funding:  
\_\_\_\_\_

**Approval Process** The signatures on the lines in ALL CAPS ( e.g. ACADEMIC UNIT) are required.

	W. Scott McGraw	1/11/07
1. Academic Unit Undergraduate Studies Committee Chair	Printed Name	Date
	Jeffrey K McKee	1/11/07
2. Academic Unit Graduate Studies Committee Chair	Printed Name	Date
	Clark S. Larsen	1/12/07
3. <b>ACADEMIC UNIT CHAIR/DIRECTOR</b>	Printed Name	Date
4. After the Academic Unit Chair/Director signs the request, forward the form to the ASC Curriculum Office, 105 Brown Hall, 190 West 17 <sup>th</sup> Ave. or fax it to 688-5678. Attach the syllabus and any supporting documentation in an e-mail to <a href="mailto:asccurrofc@osu.edu">asccurrofc@osu.edu</a> . The ASC Curriculum Office will forward the request to the appropriate committee.		
5. <b>COLLEGE CURRICULUM COMMITTEE</b>	Printed Name	Date
6. <b>ARTS AND SCIENCES EXECUTIVE DEAN</b>	Printed Name	Date
7. Graduate School (if appropriate)	Printed Name	Date
8. University Honors Center (if appropriate)	Printed Name	Date
9. Office of International Affairs (study tours only)	Printed Name	Date
10. <b>ACADEMIC AFFAIRS</b>	Printed Name	Date



Anthropology 603.03: Dental Anthropology

**EVOLUTIONARY ANTHROPOLOGY  
OF THE DENTITION**

5 credits  
Autumn, 2006  
MW 1:30-3:18 PM

**Instructor:** Dr. Guatelli-Steinberg

- e-mail: guatelli-steinbe.1@osu.edu; phone: 614-292-6897
- office hours: 217 B Lord Hall: MW 3:30-4:30 PM

**Course Overview:**

This is an advanced course focusing on the evolutionary anthropology of non-human primate and human dentition. The course employs a comparative approach to studying anthropologically significant aspects of the dentition, incorporating research from extant and extinct species of non-human primates and hominins. Topics selected for study represent areas of current research that address important questions in the study of human biological variation, human origins, and primate behavior and ecology. These topics include (but are not limited to): the evolution, genetics, and ontogeny of the dentition; functional aspects of tooth size and morphology; sexual dimorphism in tooth size and shape; dental asymmetry; dental morphology and the study of population affinities; dental development and life history theory; dental pathology/occlusal variation/chemical analysis and subsistence patterns; and enamel hypoplasias and histological markers of physiological stress.

**Course Objectives:**

As an outcome of this course, students should gain a strong foundation in the central fields of current dental anthropological research. Through lab work, they should gain familiarity with the basic methodology of dental anthropologists, including methods of tooth measurement, morphology scoring, and microscopic analysis. Through their paper assignments, students should hone their abilities to analyze and critique studies in the context of larger research issues. Finally, students should be able to apply methods and/or approaches from the field of dental anthropology to their own research specializations.

**Required reading:**

**Text: Available at the bookstore:**

Hillson S. 1996. Dental anthropology. Cambridge: Cambridge University Press.

**Anthropology 603.03 Readings Packet: Available at Grade A notes**

**Anthropology 603.03 Lab Packet: Available at Grade A notes**

**Evaluation:**

Participation: 40 points

Paper Critiques: 3 papers, each worth 40 points = 120 points

Lab Assignments: 4 assignments, each worth 20 points = 80 points

Tooth Identification quiz: 40 Points

Final Exam: 120 points

Total points: 400

## Policies:

- *Attendance* is mandatory and is part of your participation score. To get the maximum points for *Participation* you must not only come to class (and on time) but also be an active participant.
- *Labs*: There are no make-up labs. Be sure to attend them!
- *Grading*: There is no extra credit and grades are based on a standardized scale (93-100% = A; 90-92% = A-, 87-89% = B+, 83-86% = B, 80-82%=B-, etc.)
- *Late Assignments*: Assignments lose 10% of the point total for each day late.
- *Academic Misconduct*: The academic community regards academic dishonesty as an extremely serious matter, with serious consequences that range from probation to expulsion. **Anyone caught cheating will be reported to the Board of Academic Misconduct.** When in doubt, consult with the course instructor. *Ignorance of the rules governing academic misconduct or ignorance of what constitutes academic misconduct is not an acceptable defense.*
- **STUDENTS WITH DISABILITIES ARE RESPONSIBLE FOR MAKING THEIR NEEDS KNOWN TO THE INSTRUCTOR AS SOON AS THE QUARTER BEGINS AND FOR SEEKING AVAILABLE ASSISTANCE FROM THE OFFICE OF DISABILITY SERVICES 292-3307, PRIOR TO OR AT THE BEGINNING OF THE QUARTER. I RELY ON THE OFFICE FOR DISABILITY SERVICES FOR ASSISTANCE IN VERIFYING THE NEED FOR ACCOMMODATIONS AND DEVELOPING ACCOMMODATION STRATEGIES.**

## Paper Instructions:

- There are 3 papers due throughout the term and each should be a **minimum of 3, maximum of 5** pages. Please type, 12 point, double spaced, 1 inch margins. References must follow AJPA format. Table of Contents in Reading Packet follows this format.
- 5 % of the total points of the paper will be **subtracted** for writing less than the page minimum or more than the page maximum.
- You are expected to choose an article from the list distributed in class each session that papers are assigned (they are assigned two weeks in advance of the due date). Exceptions to the requirement that the article appears on the distributed list must be approved in advance. No more than two students may choose the same article for each assignment. (Articles can be obtained from the library or in some cases through Oscar on line journals.)
- In your paper, you must summarize the article you have read, critique the article, and relate it to broader research issues discussed in the required reading as well as in class. In other words, you are evaluated on how well you explain the research, how insightfully you critique the research, and how well you can integrate the article you have read into the larger research question(s) or issue(s) to which it relates. **The best papers will include additional research.** Graduate students will be required to give a 15 minute presentation and once during the quarter and all students must be prepared to discuss their articles.

Week	Schedule of Events	Assignments Due	Required Reading
9/20	• <u>Lecture</u> : Scope of dental anthropology, dental anatomy, terminology		•Hillson Chs. 1, 2 •Aiello and Dean Ch. 7, p 106-111 •Aiello and Dean Ch. 8, p 133-143
9/25	• <u>Lab 1, Part I</u> : Identifying permanent incisors and canines. <i>If time begin Part II.</i>		•Ten Cate Chs. 1, 3, 4 •Zhao and Weiss article
9/27	• <u>Lecture</u> : Evolution and development of teeth and dental tissues		
10/2	• <u>Lab 1, Part II</u> : Identifying permanent premolars and molars		•Hillson p. 68-85 •Kieser Chs 1, 2, 3, 5,
10/4	• <u>Lab 1, Part III</u> : Deciduous teeth		
10/9	• <u>Quiz</u> : Tooth Identification quiz; • <u>Lecture</u> : Odontometry I: Techniques, trends, variability; <i>first paper assigned</i>	Lab 1 due Oct 9	•Kieser Chs 6, 7, 9, 10
10/11	• <u>Lecture</u> : Odontometry II: Allometry, Asymmetry, Sexual dimorphism		
10/16	• <u>Lab 2</u> : Odontometry	Lab 2 due Oct 18	•Hillson p. 85-105 •Aiello and Dean Ch. 8, 143-159 •Butler article
10/18	• <u>Lecture</u> : Dental Morphology I: Variation and functional morphology		
10/23	• <u>Discussion</u> : Paper 1 and graduate presentations; <i>second paper assigned</i>	Paper 1 due Oct 23	•Irish and Guatelli-Steinberg article
10/25	• <u>Lecture</u> : Dental Morphology II: scoring dental morphology, population affinity studies;		
10/30	• <u>Lab 3</u> : Dental morphology	Lab 3 due Nov 1	•Aiello and Dean Ch. 7, 111-132 •Hillson p.148-164 <i>and</i> p. 178-181 •Smith article
11/1	• <u>Lecture</u> : Dental development and life history		
11/6	• <u>Discussion</u> : Paper 2 and graduate presentations; <i>third paper assigned</i>	Paper 2 due Nov 6	•Hillson p.165-177 •Guatelli-Steinberg article •Hillson Chapter 12
11/8	• <u>Lecture</u> : Dental pathology, enamel hypoplasia, and accentuated striae		
11/13	• <u>Lab 4</u> : Dental histology and enamel surfaces	Lab 4 due Nov 15	•Hillson Chs. 5 and 9
11/15	• <u>Lecture</u> : Aging techniques		
11/20	• <u>Lecture</u> : Macrowear, Microwear, and • <u>Discussion</u> : Paper 3	Paper 3 due Nov 20	•Hillson, Chapter 11 •Rose and Ungar article
11/22	• CLASS CANCELED		
11/27	• <u>Lecture</u> : Chemical Analyses, Occlusal Variation; <i>last graduate presentations; final assigned</i>	FINAL DUE: ON SCHEDULED EXAM DAY	•Hillson, Chapter 4, 10, 13 •Grupe article
11/29	• <u>Discussion</u> : Future Research Prospects		