ANTHROPOLOGY 4408G:
SPECIAL TOPICS IN ANTHROPOLOGY -
RESEARCH IN PALEOPATHOLOGY AND PALEODIET

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ANTHROPOLOGY 9108B:
SPECIAL TOPICS IN BIOARCHAEOLOGY -
ADVANCED RESEARCH IN PALEOPATHOLOGY AND PALEODIET

Preliminary Course Outline
2018-2019

Course Instructor: Dr. Andrea Waters-Rist (awaters8@uwo.ca)
Office: SSC 3427
Office hours: TBA

Class time: Thursdays, 9:30 am - 10:30 pm
Class location: SSC 3426

Course value: 0.5 credit

Prerequisites for 4408F/G: Registration in fourth year, and permission of the instructor.
Recommended: Anthropology 3338F/G: Skeletal Biology or equivalent background. Offered in the Fall term of 2018/19.

Course Description:

This course will explore disease and diet in past human populations with particular focus on the interaction of health and nutrition. A range of topics within paleopathology, the study of ancient disease, and paleodiet, the study of ancient diet, will be investigated to learn what can and cannot be discerned about human health through the analyses of skeletal and dental remains from archaeological contexts. Major techniques for reconstructing disease and diet from archaeological human remains are covered. The skeletal and dental markers of disease, injury, and diet are a source of evidence about the broader context in which people lived, for example providing information about changing environments, changing exposure to pathogens, population size and density, conflict between groups, the varied effects of the domestication of plants and animals, and activity patterns such the gendered division of labour. Cutting-edge research in biological anthropology is utilizing the interaction of health and nutrition to address broad hypotheses about human adaptation and evolution.

This seminar course is open to graduate students and a limited number of senior undergraduate students. It consists of weekly meetings that combine short instructor lectures,
class discussion, and student presentations. Class participation is mandatory. Graduate students will require a more comprehensive approach and the employment of advanced critical thinking skills to successfully complete the assignments and graduate students will be graded on a more advanced scale than undergraduate students.

Learning Outcomes:

On successful completion of this course, students will be able to:
1. Understand how disease can affect the morphology of bone and teeth via the relationships between cellular structures, soft tissues, connective tissues, and hard tissues.
2. Understand and recognize the main pathological conditions and anomalies that we can identify in human skeletal and dental remains.
3. Have improved understanding of the normal range of human skeletal variation against which pathological changes can be accurately diagnosed.
4. Understand the main methods used to reconstruct dietary variables of past populations via their bones, teeth and other biological remains.
5. Understand both the benefits and limitations of the study of disease and diet in past populations.
6. Critically read and evaluate paleopathology and paleodiet research from both methodological and theoretical perspectives.
7. Understand the synergy of diet and disease based on research in modern (i.e. ethnographic, clinical) and past (i.e. historic, archaeological) contexts considered within an evolutionary framework emphasizing biocultural variation and adaptation.
8. Effectively communicate well-supported arguments on complex topics in paleopathology and paleodiet.
9. Prepare a visually impactful and insightful research-based academic poster.

Assignments and Grading:

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<tr>
<th>Assignment</th>
<th>Graduate</th>
<th>Undergraduate</th>
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<tr>
<td>Class Participation (including weekly questions)</td>
<td>15%</td>
<td>15%</td>
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<tr>
<td>Class PowerPoint Presentation and Leading of Discussion</td>
<td>20% (45-50 min)</td>
<td>20% (25-30 min)</td>
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<tr>
<td>Annotated Bibliography</td>
<td>15%</td>
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<tr>
<td>* 15 references required</td>
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<tr>
<td>Research Paper</td>
<td>30%</td>
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<tr>
<td>*4000 words</td>
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<tr>
<td>Academic Poster and Poster Presentation</td>
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Required Readings:
3. Other readings available under the Course Readings tab of the OWL course website.
4. Articles chosen by students leading a class will be made available via the OWL site as the course progresses.

**Additional Recommended Textbooks:**

**Assignment Details:**

1. **Class Participation.** All students are expected to participate in class discussion. Beginning the 2nd week of class all students are required to bring one comprehensive question or comment they’ve developed for each assigned chapter or article that is designed to stimulate discussion and debate. These may be typed or hand-written (but ensure your writing is legible!). You may be called upon to read your question if class discussion is slow. Your questions will be handed in at the end of class and returned (usually with comments) the following week.

2. **PowerPoint Presentation and Leading Class Discussion.** Every student is expected to lead one class. All students will do this individually. This involves presenting the topic via a PowerPoint presentation of 45-50 minutes for graduate students and 25-30 minutes for undergraduate students and leading the questions and discussion of the topic during the latter half of the class. In addition to the readings that are already assigned for that week the student is responsible for assigning one or two additional research articles to the class that provide an example of their topic in an archaeological context. The research article must be approved by the instructor and made known to the class no later than one week before the class. A list of acceptable journals from which to choose your article will be made available.

3. **Annotated Bibliography and Abstract.** Abstracts and annotated bibliographies are useful techniques in the preparation of a research paper or poster. An abstract is a brief synopsis or summary of the most important points that you plan to discuss in your paper or poster (note, an abstract is not merely a condensed table of contents or an introductory paragraph). The abstract for your poster should be no more than 250 words in length.
addition, graduate students must have an annotate for ten peer-review journal articles or book chapters, and undergraduate students for five articles/chapters, related to your poster topic. An annotate is a brief (200-400 words) paragraph that describes and evaluates the article/chapter. The purpose of the annotate is to provide an overview of the paper (that will be useful to other readers and yourself in the future) that assesses the relevance and quality of the work. More details on the abstract and annotated bibliography will be made available.

4. **Research Paper.** Topics for the research paper must be related to one of the broad lecture themes and be selected in consultation with the instructor (in office hours or by email). The paper will be formatted as a manuscript to be submitted to the *American Journal of Physical Anthropology* (AJPA). This formatting includes the cover page, keywords, an abstract, referenced cited, and sections as appropriate (i.e. sections should include Introduction, Discussion, and Conclusion; sections that also may be appropriate are Material(s), Methods, and Results). Headings (predefined as per above or your own) and subheadings (your own) should be used to clarify the structure of the paper. This link will take you to the AJPA author guidelines, which details how to format your in-text citations and references. You do NOT need to bother noting the month/season of publication as they sometimes suggest. Noting the year is sufficient.

5. **Academic Poster.** Every student is responsible for the creation of an academic poster using PowerPoint or Adobe Acrobat. They cannot choose the same topic as the class they led nor can the topic be the main focus of their research paper (it can be peripherally related). Often a specific disease/pathology or debated case-study make for effective posters. You are welcome to make a poster containing your own unpublished data (from your own research; e.g. a skeleton you’ve encountered with interesting pathological lesions; human isotopic data reconstructing a particular diet), which could perhaps be ultimately given at a future conference. Instructor approval of your poster topic is required. Further specification of poster requirements (e.g. – less than 1000 words, required headings, use of figures and tables, page dimensions, recommended font size, etc.) will be made available. Each student will then be required to present their poster in class (it will be projected onto a screen; you do not need to print your poster) and give a four-minute oral summary. You will be cut-off after four minutes. There will be two additional minutes allotted for questions from your instructor and/or fellow students. This presentation will occur during our allotted time in the exam week (or possibly a preferable unanimously agreed upon other time during exam week).

**Additional Policies:**

**Attendance:**

Attendance at every class is mandatory. While I will not keep attendance, I will require you to hand in your chapter/article questions after each class thereby keeping track of your attendance (or at least your participation should you choose to attend class without having prepared any questions). Notify me as soon as possible via e-mail if you are unable to attend a
class due to illness or other serious personal circumstances. As it is not possible to re-schedule
the class you are leading, nor the day and time of your poster presentation, only MAJOR
extenuating circumstances will be taken into consideration, and an additional assignment will
need to be completed if the student does not want to receive a grade of zero. An unexcused
absence will result in a grade of zero that cannot be made up in any other way.

**Late Assignments:** Extensions on assignments will only be given in the case of major medical or
personal emergencies. Each day past due will result in the deduction of 5% off the grade for
that assignments. Assignments more than five days late will not be accepted and the student
will receive a grade of zero for that assignment.

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<th>General University Policies:</th>
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<td>All students should familiarize themselves with Western's current academic policies regarding accessibility, plagiarism and scholastic offences, and medical accommodation. These policies are outlined (with links to the full policies) at: <a href="http://anthropology.uwo.ca/undergraduate/course_information/academic_policies.html">http://anthropology.uwo.ca/undergraduate/course_information/academic_policies.html</a></td>
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**Mental Wellbeing:** Students who are in emotional/mental distress should refer to Mental Health@Western http://uwo.ca/health/mental_wellbeing/index.html for a complete list of options about how to obtain help.