



**Department of Anthropology  
Plagues and People  
ANTH-3715  
Fall 2018**

**CONTACT INFORMATION**

**Instructor: Dr. Katie Whitaker  
Email: [kwhitake@lakeheadu.ca](mailto:kwhitake@lakeheadu.ca)  
Office Location: Sessional Desk Area  
Office Hours: Tu 1:00 – 2:00**

**DELIVERY MODE/LOCATION**

**Course Location: OA2018  
Campus: Orillia  
Times: W/F 8:30 – 10:00**

**COURSE DESCRIPTION**

This course looks at and considers the origins, antiquity, and impact of plagues and epidemics on people throughout history and the ways in which they have shaped our societies and our species.

**COURSE OBJECTIVES**

Be able to analyse and evaluate scholarly work.  
Have a solid understanding of disease transmission  
Be able to identify the factors that bring about and sustain plagues

**LEARNING OUTCOMES**

To recognize and analyse evidence and processes in human biological and social development.  
To think and write critically.  
To increase and expand your interest in archaeology and paleopathology

**REQUIRED MATERIALS**

Aberth J. 2015. *Plagues in World History*. Rowman & Littlefield Publishers; Maryland.  
Barnes E. 2007. *Diseases and Human Evolution*. University of New Mexico Press:

The assigned readings will be your textbooks and journal articles, you are expected to read these **BEFORE** the class in which they are assigned. The journal articles can be found in the appropriate folder on MyCourseLink. We may not always discuss these specifically; however feel free to ask questions if anything is unclear.

## ASSESSMENTS

<u>Assessment</u>	<u>Grade Percentage</u>	<u>Due Date</u>
<b>Scavenger Hunt</b>	<b>2% BONUS</b>	<b>11:30PM September 12</b>
<b>Attendance/Participation</b>	<b>10%</b>	<b>N/A</b>
<b>Reading/Discussion Group</b>	<b>15% x 2 = 30%</b>	<b>Various dates</b>
<b>Article Summaries</b>	<b>15%</b>	<b>October 19, in class</b>
<b>Critical Essay</b>	<b>5% outline; 15% final = 20%</b>	<b>Outline = September 28  Final = November 14</b>
<b>Pub Quiz</b>	<b>5%</b>	<b>November 23</b>
<b>Final Exam</b>	<b>20%</b>	<b>Exam Period</b>

### COURSE SCAVENGER HUNT 2% BONUS

On the course website you will find a quiz which is focussed on being aware and understanding the content of the course. The aim is to make sure you are familiar with the course rules with respect to expectations as well as the various documents found in the Content section. You will have up to 10 attempts to get 100% on the quiz, but it must be completed by 11:30pm on September 12. If you achieve 100% you will receive a 2% bump to your final mark.

### ATTENDANCE AND PARTICIPATION 10%

Attendance will be taken every class, considering that **lecture slides and notes will NOT be posted**, you are encouraged to attend and participate in order to get full marks. Attendance will be taken every class for 5% of your final mark. Marks will be based on the following criteria: attending 90% or more classes receive 5%, attending 70-89% of classes receive 3%, attend 50-69% of classes receive 1.5%, attend less than 50% and you will receive no credit. Participation will be based on your daily involvement in discussions, including submitting a question for every Reading Presentation you are

not leading, and throughout lectures by asking and answering questions and will account for the other 5%.

### **READING PRESENTATION AND DISCUSSION 15% x 2**

Each group of 3 (three) students will pick from the classes marked with an asterix (\*) and present the readings to the class and lead a discussion. The presentation must include a PowerPoint and should take about 5 (five) minutes to set the scene and provide a summary of the articles under review. Be sure to provide a complete reference for each article as well as any relevant images to better explain the articles. Afterwards the group will lead a 15 (fifteen) minute discussion. This will include creating a series of leading questions (questions that cannot be answered with simple yes or no responses) that will be submitted to me on the Monday before the class, and encouraging the whole group to participate. **If this is not your week to present**, you must come prepared with a written question for the group that you will turn in after the presentation. These questions will help go towards your participation mark. The night before your presentation, each group member will E-mail me a brief note about how they contributed to the group. Unless there are huge disparities in workload and effort, group members will receive the same mark.

### **ARTICLE SUMMARIES 15% OCTOBER 19**

Choose one article from those tagged with a # and create two summaries. The first will be a one page summary. Make sure you state the thesis/research question and provide an overview of the content of the article. See the first lecture for more details. You must reference throughout, referring to the article by author last name and year NOT the article title, and if using specific information or quotes you must include a specific page number in your reference. The second summary is a tweet of that same article. You must follow all of the rules that you would for a tweet (140 characters, only use short forms that are considered common knowledge). For this part, your goal is to get right to the point. What was the purpose of the article and what did they find; these are what you need to determine. There is no need to include a citation within the tweet, though if you include quotes you need to which means learning to paraphrase concisely will save you the characters you need. Make sure you reference your article in a separately-paged Reference List and create a single overall title page (therefore you will submit a four-page package). The summaries are due together, as a package, on October 19.

Example of a tweet for: Buckberry JL and DM Hadley. 2007. An Anglo-Saxon execution cemetery at Walkington Wold, Yorkshire. *Oxford Journal of Archaeology* 26: 309-29.

“Did criminals receive different burials in England in the past? Yes, they were buried prone in the 8<sup>th</sup> century and comingled in the 10<sup>th</sup>.”

### **CRITICAL ESSAY 20% (5% OUTLINE SEPTEMBER 28, 15% ESSAY NOVEMBER 14)**

You are welcome to choose any topic related to disease in history. See me in advance to confirm if you are unsure of your topic. Your outline will be 1 (one) page in length and include a proposed title, a thesis and plan for your essay (ie. how you are going to prove your argument) and three references. This is due in class on September 28. The final length of your essay should be 5 pages double spaced

not including a title page and your reference page. You must include a completed Essay Checklist and your previously submitted outline when you submit your paper in class. Your paper will not be accepted without these two items. You are expected to use a minimum of 5 journal articles and/or edited volumes, outside of those listed in your course outline. Follow the referencing style detailed on the ANTH 3715 myCourseLink website. Late penalty of 10% per day, after 72 (seventy-two) hours (3 days) your paper will not be accepted. Your paper is late once class ends (ie. 10:01 on Wednesday/Friday), and every 24 hour period will continue from there.

### **PUBQUIZ 5%**

On November 28, in small groups, the class will do a pub quiz. It will cover the entire course, with the aim being to both demonstrate your knowledge and review for the final. Questions will be asked orally and each group will submit a list of answers. To prepare simply review as you would for your final. You will be relying on yourselves and your group members for the answers as it will be closed-book. There are no make-ups.

### **FINAL 20%**

This exam, though based on the entire course, will not simply be a recitation of course content. The bulk of the exam will be short essay questions that require you to extrapolate data and think critically. As a result of the lectures and the assigned readings, you will have developed these skills throughout the course and as long as you have reviewed all of these components (which will enable you to draw in examples and create a discussion), this should be straightforward. There will be a review and discussion session during the last class and you are free to discuss any concerns and questions you have in class or with me during office hours.

### **Lecture Outline**

<b>DATE</b>	<b>LECTURE TOPIC</b>	<b>READINGS</b>
<b>SEPTEMBER 5</b>	<b>COURSE INTRODUCTION</b>	<b>BARNES PG1-8</b>
<b>SEPTEMBER 7</b>	<b>OSTEOLOGICAL PARADOX</b>	<b>#GRAUER 2017</b>
<b>SEPTEMBER 12</b>	<b>DISEASE THEORIES</b>	<b>BARNES PG9-26; CLARK 2010a</b>
<b>SEPTEMBER 14</b>	<b>DISEASE BURDEN + THOMAS MALTHUS</b>	<b>ABERTH PG1-17</b>
<b>*SEPTEMBER 19</b>	<b>RESISTANCE + RESERVOIRS</b>	<b>CRAWFORD 2007</b>
<b>SEPTEMBER 21</b>	<b>EPIDEMIOLOGICAL TRANSITIONS I</b>	<b>BARNES PG27-44</b>
<b>*SEPTEMBER 26</b>	<b>EPIDEMIOLOGICAL TRANSITIONS II</b>	<b>BARNES PG45-66 AND PG269-278; #WATTS 1997a</b>
<b>SEPTEMBER 28</b>	<b>DNA + HUMAN VARIATION</b>	<b>#CLARK 2010b; KO AND URBAN 2013</b>

<b>*OCTOBER 3</b>	<b>PLAGUE I</b>	<b>ABERTH PG19-33; BARNES PG237-250; #PAPAGRIGORAKIS ET AL. 2006</b>
<b>*OCTOBER 5</b>	<b>PLAGUE II</b>	<b>ABERTH PG33-72; DEWITTE 2016</b>
<b>OCTOBER 17</b>	<b>HISTORY OF LEPROSY</b>	<b>BARNES PG173-184</b>
<b>*OCTOBER 19</b>	<b>LEPROSY</b>	<b>DONOGHUE ET AL. 2015</b>
<b>*OCTOBER 24</b>	<b>ORIGINS OF TB</b>	<b>BARNES PG157-72; DONOGHUE ET AL 2005;</b>
<b>*OCTOBER 26</b>	<b>TUBERCULOSIS + RESISTANCE</b>	<b>ABERTH PG89-100</b>
<b>*OCTOBER 31</b>	<b>INFLUENZA</b>	<b>BARNES PG337-354; ABERTH PG111-34</b>
<b>*NOVEMBER 2</b>	<b>CHOLERA</b>	<b>BARNES PG279-298; ABERTH PG101-10</b>
<b>*NOVEMBER 7</b>	<b>YELLOW FEVER</b>	<b>BARNES PG299-312; PAULES AND FAUCI 2017</b>
<b>*NOVEMBER 9</b>	<b>SMALLPOX</b>	<b>ABERTH PG73-88; WATTS 1997b; ALCHON 2003</b>
<b>*NOVEMBER 14</b>	<b>SYPHILIS</b>	<b>BARNES PG201-220; JONES 1992; ZUCKERMAN 2016</b>
<b>*NOVEMBER 16</b>	<b>HIV/AIDS</b>	<b>BARNES PG387-397; ABERTH PG135-78; WASHER 2010</b>
<b>*NOVEMBER 21</b>	<b>INFECTIOUS DISEASE + CLIMATE CHANGE</b>	<b>MYERS ET AL. 2013; ELGUERO ET AL. 2015</b>
<b>NOVEMBER 23</b>	<b>PUB QUIZ</b>	
<b>NOVEMBER 28</b>	<b>EVOLUTIONARY CONSEQUENCES OF DISEASE</b>	<b>BARNES PG413-428</b>
<b>NOVEMBER 30</b>	<b>REVIEW AND CLASS WRAP-UP</b>	<b>BARNES PG413-428; ABERTH PG179-84;</b>
<b>DECEMBER 6-16</b>	<b>FINAL EXAM PERIOD</b>	

## Journal Articles

Grauer AL. 2017. A century of paleopathology. *American Journal of Physical Anthropology* 165: 904-914.

aClark D. 2010. *Germs, genes and civilization: How epidemics shaped who we are today*. FT Press: New Jersey: 33-65.

Crawford DH. 2007. *Deadly Companions*. Oxford University Press; New York: 9-27.

aWatts S. 1997. *Epidemics and History: Disease, Power and Imperialism*. Yale University Press: New Haven: 269-279.

bClark D. 2010. *Germs, genes and civilization: How epidemics shaped who we are today*. FT Press: New Jersey: 1-12.

Ko DC and TJ Urban. 2013. Understanding human variation in infectious disease susceptibility through clinical and cellular GWAS. *PLOS Pathogens* 9: e1003424.

Papagrigrakis MJ, C Yapijakis, PN Synodinos and E Baziotopoulou-Valavani. 2006. DNA examination of ancient dental pulp incriminates typhoid fever as a probable cause of the Plague of Athens. *International Journal of Infectious Diseases* 10: 206-214.

DeWitte SN. 2016. The anthropology of plague: insights from bioarchaeological analyses of epidemic cemeteries. *The Medieval Globe* 1: 97-123.

aDonoghue HD, GM Taylor, A Marcsik, E Molar, G Palfi, I Pap, M Teschler-Nicola, R Pinhasi, YS Erdal, P Veleminsky, J Likovsky, MG Belcastro, V Mariotti, A Riga, M Rubini, P Zaio, GS Besra, OY-C Lee, HHT Wu, DE Minnikin, ID Bull, J O'Grady and M Spigelman. 2015. A migration-driven model for the historical spread of leprosy in medieval Eastern and Central Europe. *Infections, Genetics and Evolution* 31: 250-56.

bDonoghue HD, A Marcsik, C Matheson, K Vernon, E Nuorala, JE Molto, CL Greenblatt and M Spigelman. 2005. Co-infection of *Mycobacterium tuberculosis* and *Mycobacterium leprae* in human archaeological samples: a possible explanation for the historical decline of leprosy. *Proceedings of the Royal Society B* 272: 389-394.

Paules CI and AS Fauci. 2017. Yellow fever – once again on the radar screen in the Americas. *The New England Journal of Medicine* 376: 1397-1399.

bWatts S. 1997. *Epidemics and History: Disease, Power and Imperialism*. Yale University Press: New Haven: 84-121.

Alchon SA. 2003. *A Pest in the Land: New World Epidemics in a Global Perspective*. University of New Mexico Press: Albuquerque: 147-172.

Jones JH. 1992. *Bad Blood: The Tuskegee Syphilis Experiment*. The Free Press: New York: 1-15 & 206-219.

Zuckerman MK. 2016. More harm than healing? Investigating the latrogenic effects of mercury treatment on acquired syphilis in post-medieval London. *Open Archaeology* 2: 42-55.

Washer P. 2010. *Emerging Infectious Diseases and Society*. Palgrave Macmillan: New York: 45-65.

Myers SS, L Gaffikin, CD Golden, RS Ostfeld, KH Redford, TH Ricketts, WR Turner and SA Osofsky. 2013. Human health impacts of ecosystem alteration. *Proceedings of the National Academy of Science* 110: 18753-60.

Elguero E, LM Délicat-Loembet, V Rougeron, C Arnathau, B Roche, P Becquart, J-P Gonzalez, D Nkoghe, L Sica, EM Leroy, P Durand, FJ Ayala, B Ollomo, F Renaud and F Prugnolle. 2015. Malaria continues to select for sickle cell trait in Central Africa. *Proceedings of the National Academy of Science* 112: 7051-54.

## COURSE POLICIES

**Class expectations:** You are expected to read this outline in its entirety and follow all guidelines as they are clearly set out. If you have any questions, ask them as soon as possible. I will not necessarily be checking my e-mail the night before an assignment is due so please plan accordingly. Although we will be discussing evolution throughout this course, we will be maintaining a scientific focus. We will not be debating the merits or the accuracy of evolution in comparison to religious thought. You are free to have whatever opinions you may have on the matter but please leave these non-scientific opinions at the door, as this is not the appropriate forum for them. This class will be a respectful place; no insulting language or actions will be tolerated. **There is absolutely no photography or lecture recording permitted in this class.**

**Communication with Dr. Whitaker:** Feel free to email me regarding concerns, however please read through the course outline first, as often, the answer can be found here. In composing your email please send it from your Lakehead account, include your course number in the subject field and write a formal email, addressing myself in a respectful manner (see the beginning of this paragraph), use complete sentences and sign your email with your full name and student number. I will try to answer emails in a timely manner, usually within 48 hours.

**Readings:** You are expected to complete all readings BEFORE the assigned class. We may discuss the readings in class but your lectures will not follow them so come to class prepared to answer questions.

**Attendance:** It is HIGHLY recommended you attend all classes and labs. It is expected you will show up and participate in every class. Lecture notes and power point presentations WILL NOT be provided so it is up to you to ensure you are keeping up with the pace of the course. Please see me as soon as possible if you feel you are getting behind.

**Late Assignments:** You are expected to submit all work on time and be in class for all tests. If an assignment is late, 5% will be deducted for 24 hours past the due date (specifically in class, received by 10:00 am) and will not be accepted after three days (72 hours after the deadline). The Anthropology Department will not accept assignments in person or by e-mail. Deadlines are firm and **no extensions** will be given unless there are extenuating circumstances and the appropriate documentation (e.g. doctor's note, obituary) is provided. If an extension is required, Dr. Whitaker must be informed by e-mail at least 24 hours BEFORE the assignment is due by e-mail. Required documentation will be specific to each case but may include a Lakehead medical certificate or death certificate as appropriate. You must have a response from Dr. Whitaker indicating the granting of an extension as confirmation it has been accepted. If you feel a mark should be reconsidered, please discuss it with Dr. Whitaker, in person, during the next available office hour. **ALWAYS** keep a backup copy of your work!

**Missed Midterm:** If you miss the midterm you must inform Dr. Whitaker **within 24 (twenty-four) hours** with a clear explanation of the circumstances and associated documentation. Required documentation will be specific to each case but may include a Lakehead medical certificate or death certificate as appropriate. A new date for the make-up will be arranged based on Dr. Whitaker's schedule and the format will involve both short and long essay questions.

**Academic Conduct:** You are expected, as a university student, to abide by and follow the student code of conduct. This means you will submit only your own, original work. If it is found that you have been less than honest in your submission you may receive a mark of zero for the assignment or the course, and may possibly face further penalties. Just don't do it.

## GENERAL REGULATIONS

Student Accessibility Services (SAS) (Thunder Bay) and Student Affairs (Orillia) coordinate services and facilitates reasonable academic accommodations for students with disabilities. Academic accommodations are provided on the basis of documentation of a disability. Additional information is available at the following campus websites:

Thunder Bay: <http://learningassistance.lakeheadu.ca/>.

Orillia: <http://orillia.lakeheadu.ca/about-us--orillia-student-affairs/>

## ACADEMIC DISHONESTY:

The University takes a most serious view of offences against academic honesty such as plagiarism, cheating and impersonation. Penalties for dealing with such offences will be strictly enforced.

A copy of the "Code of Student Behaviour and Disciplinary Procedures" including sections on plagiarism and other forms of misconduct may be obtained from the Office of the Registrar.

The following rules shall govern the treatment of candidates who have been found guilty of attempting to obtain academic credit dishonestly.

- (a) The minimum penalty for a candidate found guilty of plagiarism, or of cheating on any part of a course will be a zero for the work concerned.
- (b) A candidate found guilty of cheating on a formal examination or a test, or of serious or repeated plagiarism, or of unofficially obtaining a copy of an examination paper before the examination is scheduled to be written, will receive zero for the course and may be expelled from the University.

Students disciplined under the Code of Student Behaviour and Disciplinary Procedures may appeal their case through the Judicial Panel.

Note: "Plagiarism" shall be deemed to include:

1. Plagiarism of ideas as where an idea of an author or speaker is incorporated into the body of an assignment as though it were the writer's idea, i.e. no credit is given the person through referencing or footnoting or endnoting.
2. Plagiarism of words occurs when phrases, sentences, tables or illustrations of an author or speaker are incorporated into the body of a writer's own, i.e. no quotations or indentations (depending on the format followed) are present but referencing or footnoting or endnoting is given.
3. Plagiarism of ideas and words as where words and an idea(s) of an author or speaker are incorporated into the body of a written assignment as though they were the writer's own words and ideas, i.e. no quotations or indentations (depending on format followed) are present and no referencing or footnoting or endnoting is given.

A listing of University Regulations can be found at:

<http://calendar.lakeheadu.ca/current/contents/regulations/univregsintro.html>



The code of student behaviour and disciplinary procedures can be found at: <http://policies.lakeheadu.ca/policy.php?pid=60>

**MISSED FINAL EXAMS:**

Make-up examinations will only be given with written documentation from a healthcare practitioner using the official Student Health Certificate, available at <http://registrar.lakeheadu.ca/uploads/docs/F.HealthCertificate.pdf>

Final examinations run from **December 6<sup>th</sup> to 16<sup>th</sup>, 2018**, inclusive. There will be no rescheduling of examinations to accommodate holiday travel or extracurricular activities. No one will be allowed to write examinations prior to the scheduled date.