ANTH 341 FOOD ORIGINS (CRN 26905)
Winter 2015

Professor: Gyoung-Ah Lee
Class Time: 2:00–3:20 pm on Tue & Thur
Class location: McKenzie 221
Office: Condon 254 (Lee), Condon 365 (Kim, Lane)
Office Hours: 12:00–13:50 pm on Tue
Contact: 346-4442 galee@uoregon.edu
Session: 50 min from 10:00 am to 4:50 pm at Condon 204
GTF: Habeom Kim (hkim@uoregon.edu), Brian Lane (blane@uoregon.edu)

“Analyze each course syllabus so that you can anticipate the main ideas the course will cover, and know when exams, papers, and other assignments will come up.”
From the “Polish your study skill”, the 2010-11 Student Handbook (p. 86)
Read the ‘Course-Requirements-ANTH 341’ from Blackboard.

Description
This course introduces archaeological and scientific data on plant domestications and the origins of agriculture. It engages up-to-date perspectives on why and how some foragers became farmers/herders and the aftermath that brought social, cultural, environmental changes and sustainability issues in the past. You are expected to demonstrate the core knowledge from the readings and lectures and to express a considered view on the major issues through writing and discussion.

Learning objectives
The course aims to make you aware of critical research on each topic covered and to prepare you to apply the knowledge to your own academic interests. Firstly, you will gain the updated knowledge on the transition to agriculture in the primary origins of domestication. Secondly, you will compare major theories on the cultural and biological processes involved with the transition to agriculture. Topics are variable in each lecture (see the Weekly Schedule) but the following subjects will reoccur throughout the course:

• Social, cultural characteristics before and after the emergence of agriculture
• Regional environmental conditions/changes before and after the emergence of agriculture
• Biological processes of each domesticated species
• Cultural roles of domesticated species

Important Note for Course Requirement
The ‘Course-Requirements for ANTH 341’ in course Document folder at Blackboard explains the following issues: policy for makeup exams and extension for assignments; academic dishonesty; and accessibility issue. Your enrolment will be understood that you are well aware of the requirements and agree to follow them.

Readings
Textbook available at U O Bookstore
Other essential readings are uploaded on the ‘Reading Materials’ folder in ‘Course Documents’ at Blackboard.
**Evaluation Schemes**

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<th>Specifics</th>
<th>Marks</th>
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<tr>
<td>Attendance</td>
<td>15 points</td>
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<tr>
<td>Lab participation</td>
<td>15 points</td>
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<tr>
<td>Lab Group Presentation</td>
<td>10 points</td>
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<tr>
<td>Exam 1</td>
<td>20 points</td>
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<td>Exam 2</td>
<td>20 points</td>
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<tr>
<td>Exam 3</td>
<td>20 points</td>
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(Percentage towards final grade)

- If the course is taken P/NP, C- or better (70% or higher) is required to pass the course.
- There WON’T be a curve adjustment. Final letter grades for the course will be figured as follows:

  - A* ≥ 97%
  - A ≥ 93%
  - A' ≥ 90%
  - B* ≥ 87%
  - B ≥ 83%
  - B' ≥ 80%
  - C* ≥ 77%
  - C ≥ 73%
  - C' ≥ 70%
  - D* ≥ 67%
  - D ≥ 63%
  - D' ≥ 60%
  - F < 60%
  - 80% or higher for pass

**Attendance**

Class attendance 10 + Lab attendance 5 (0.5 point for each attendance)

If you attend any speaker series (colloquium) in Anthropology and submit a short summary (100 words) of the talk content, you will earn a bonus point in participation mark (up to 0.5 point). The GTF will announce these events in Anthropology through course blackboard time to time.

**Exams**

Exams will be held in class on Jan 27 (Exam 1), Feb 19 (Exam 2), and Mar 12 (Exam 3). Each exam will consist of 10 multiple-choice questions and 3 short-answer questions (150–200 words each). The lecture contents, main reading materials, and the lab contents will be the subject to the questions. The topics covered after Exam 1 (that is, from Jan 29) will be the subject of Exam 2. The topics covered after Exam 2 (that is, from Feb 18) will be the subject of Exam 3. You are required to bring your photo ID (e.g., UO ID, driving licence) to the exams.
Lab Participation

You will write a short review (100 words) on 1~3 topics related to the readings and a film assigned for the lab and lab discussion at the end of labs except for Lab 2 (Jan 14) and Lab 7 (Feb 18).

1.5 point per each review (1.5 x 8)+ 3 (active discussion) = 15 points total

Lab Group Presentation

In groups of 3-4 students, select a food item and research its origins in the archaeological record. As a group, present the results of your research to your fellow classmates during lab sections in week 10. Each student is also individually responsible for producing a short write-up (2-3 pages) of a portion of the project results. More information about this assignment will be provided in lab sections during week 6.

Readings

Bryant, V. M. 2007. Microscopic evidence for the domestication and spread of maize. PNAS 104 (50):19659-60

—. 2014b. Reply to Smith: on distinguishing between models, hypotheses, and theoretical frameworks. Proceedings of the National Academy of Sciences of the USA 111.
—. 2014c. Reply to Zeder: maintaining a diverse scientific toolkit is not an act of faith. Proceedings of the National Academy of Sciences of the USA 111.
Larson, G. et al., 2014. Current perspectives and the future of domestication studies. Proceedings of the National...


Smith, B. D.
—. 2014/ Failure of optimal foraging theory to appeal to researchers working on the origins of agriculture worldwide. *Proceedings of the National Academy of Sciences of the USA* 111.


<table>
<thead>
<tr>
<th>Date</th>
<th>Subjects</th>
<th>Readings</th>
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| 1 Jan 6  | **Course Introduction**  
• Course overview and requirements                                           |                                                                          |
| Jan 8    | **Classifying subsistence**  
• Modes of subsistence; foraging, food production, agriculture  
• Basic terms and concepts                                                | Textbook (Ch.2: pp. 16-24); Harris 2007                                   |
|          | **Readings**                                                             |                                                                          |
|          | **Lab 1** Film watching: Subsistence System                              |                                                                          |
| 2 Jan 13 | **Origins of Crop domestication in a global view**  
• History of research on agricultural origins  
• Primary centers and secondary regions                                   | Textbook (Ch.1); Larson et al. 2014                                       |
|          | **Methods for documenting domestication**  
• Scientific, archaeological methods of detecting plant domestication     | Smith 1995 (Ch. 3); Smith 2006a                                          |
|          | **Readings**                                                             |                                                                          |
|          | **Lab 2** Tour to the Archeobotany Laboratory                           | Pearsall & Hastorf 2011                                                  |
| 3 Jan 20 | **Crop origins in Southwest Asia**  
• Cultural and biological perspectives  
• Archaeological evidence of early plant management                       | Textbook (Ch.4); Zeder 2011                                              |
|          | **Agricultural spread in Europe**  
• Spread of domesticated crops  
• Animal domestication & spread: SW Asian package                        | Smith 1995 (Ch. 5 pp. 92-106); Rowley-Conwy 2011                        |
|          | **Readings**                                                             |                                                                          |
|          | **Lab 3** Characteristics of Domestication                              |                                                                          |
| 4 Jan 27 | **Exam 1 in Class**                                                      |                                                                          |
| Jan 29   | **Domestication of Asian crops**  
• Founding crops: rice, millet  
• Other plant resources                                                   | Jones & Liu 2009; Zhao 2011                                              |
|          | **Lab 4** Beyond cereal crops: arboriculture                            | Kitagawa and Yasuda 2009                                                 |
| 5 Feb 3  | **Hunter-Gatherer & Farmer Interactions in Asia**  
• Theories on agricultural dispersal beyond origins  
• Socio-economic consequences of agricultural adoption                   | Crawford 2008; Crawford and Lee 2003                                    |
|          | **New Data from the Pacific**  
• Tuber and fruit domestication in SE Asia & Pacific  
• Austronesian expansion                                                 | Bellwood 2001                                                            |
|          | **Lab 5** Domestication in terms of detoxification and flavour           | Johns 1990                                                               |
| 6 Feb 10 | **Origins of Agriculture in Central America**  
• Domestication of the Columbian Trio  
• Agricultural impact on Central American civilization                    | Bryant 2007; Ranere et al. 2009; Smith 1995 (Ch. 7 pp. 146-170)          |
|          | **Origins of Agriculture in South America**  
• Tuber and grain crop domestication  
• Domestication of draft herds in the Andes                               | Smith 1994 Ch. 7 (pp. 170-181); Piperno 2011                            |
|          | **Lab 6** The social life of food (luxury, status, feasting, ritual, fermentation) | Curet and Pestle 2010                                                  |
| 7 Feb 17 | **Prehistoric Plant management in Eastern North America**  
• Indigenous Eastern crop complex  
• Transition to maize agriculture                                         | Smith 1995 (Ch. 8 pp. 184-200); Smith 2006b                             |
|          | **Lab 7** Native Garden MNCH tour                                        |                                                                          |
| 8 Feb 24 | **Origins of African crops and pastoralism**  
• Origins of African cereals (e.g., millet, sorghum)  
• Donkey and pastoralism                                                  | Smith 1995 (Ch. 5 pp. 106-113); Pasquet 2004                           |
|          | **Theories on transition to resource productions I**  
• Environmental models                                                    | Bettinger, Richerson & Boyd 2009; Cohen 1975                            |
<table>
<thead>
<tr>
<th>Lab 8</th>
<th>Impact of agriculture on health and society</th>
<th>Cohen 2008</th>
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<tr>
<td>Mar 5</td>
<td><em>Theories on transition to resource productions III</em>&lt;br&gt;  - Social relation perspectives: Marxist, Individualism&lt;br&gt;  - Post-processual, ideological models</td>
<td>Bender 1978; Hayden 2009</td>
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<td>Lab 9</td>
<td>Farming, identity, and gender</td>
<td>Peterson 2007</td>
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<td>10 Mar 10</td>
<td><em>Looking to the future</em>&lt;br&gt;  - Sustainability and agro diversity</td>
<td>Diamond 2002</td>
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<td>Mar 12</td>
<td><em>Exam 3 in class</em></td>
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<td>Lab 10</td>
<td><em>Group presentations</em></td>
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