

ANTH 206
Special Topics in Archaeology – Resource Intensification
(From Hunter-Gatherers to Complex States)
Meets Wednesday 2:00-4:50 pm / HSSB 2001A

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Office Hours: Tuesdays 10:00-12:00

The course is organized as a seminar, which means that you (the students) are responsible for **leading and participating in discussion** revolving around the readings. You are expected to attend class and to participate in discussion **every week**. Two students each week will be designated as discussion leaders, and will prepare a set of questions based on the readings that will spark discussion. As discussion leader, it will be your job to keep discussion going, provide adequate coverage of the week's readings, and steer the discussion if it gets off track. Participation in the seminar accounts for **25% of your grade**.

In addition to reading and discussion, you will be expected to write. Your writing assignment(s) constitute the remaining 75% of your grade. **First-year grad students** will be expected to write **three 6-page essays** dealing with issues relevant to the readings. The first two essays will be responses to a structured question that I will hand out a week before the essay is due. The final essay will be more open, allowing you to choose a topic of interest to you. All essays **MUST** engage the readings from the course in relevant ways.

Essay Due Dates (1st Year Students)

Essay 1 (25%) → Friday, Feb 3rd, by 3:30 pm

Essay 2 (25%) → Friday, Feb 24th, by 3:30 pm

Essay 3 (25%) → Friday, March 16th, by 3:30 pm

Students beyond their first year of grad school have a choice between the 3 essay structure (see above) and writing a final 18-20 page paper revolving around a single topic and case study. This paper should involve some form of data analysis. You must come and discuss your topic with me! The expectation is that this paper will lead to some sort of (1) conference presentation or publication, (2) assist in the design, development, and implementation of your data paper project, and/or (3) be in some way related to your eventual dissertation project.

Final Paper Due Date (For 2nd year+ students if choosing this paper option)

Paper Due by Friday, March 16th, by 3:30 pm

READING LIST BY WEEK (All readings available as PDFs via dropbox)

Note: Readings are listed in chronological order by week. You should read them in this order unless I instruct you to do otherwise.

Week 1 (Jan 11th): General Theory/Method on H/G intensification

- Winterhalder, Bruce, 1986, Diet Choice, Risk, and Food Sharing in a Stochastic Environment. *Journal of Anthropological Archaeology* 5:369-392.
 - Keeley, Lawrence, 1995, Protoagricultural Practices among Hunter-Gatherers: A Cross-Cultural Survey. In *Last Hunters, First Farmers: New Perspectives on the Prehistoric Transition to Agriculture*, ed. by T. D. Price and A. B. Gabauer, pp. 243-272. School of American Research Press, Santa Fe, New Mexico.
 - Nagaoka, Lisa, 2001, Using Diversity Indices to Measure Changes in Prey Choice at the Shag River Mouth site, Southern New Zealand. *International Journal of Osteoarchaeology* 11:101-111.
 - Boone, James L., 2002, Subsistence Strategies and Early Human Population History: An Evolutionary Ecological Perspective. *World Archaeology* 34(1): 6-25.
 - Holly, Donald H., 2005, The place of "others" in hunter-gatherer intensification. *American anthropologist* 107(2):207-220.
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Week 2 (Jan 18th): H/G Hunting Intensification

- Broughton, Jack M., 2001, Resource Intensification and late Holocene human impacts on Pacific Coast bird populations: evidence from the Emeryville Shellmound avifauna. In *Posing Questions for a scientific archaeology*, pp. 251-278.
- Cannon, Michael D., 2003, A model of central place forager prey choice and an application to faunal remains from the Mimbres Valley, New Mexico. *Journal of Anthropological Archaeology* 22(1):1-25.
- Betts, Matthew W. and T. Max Friesen, 2004, Quantifying hunter-gatherer intensification: a zooarchaeological case study from Arctic Canada. *Journal of Anthropological Archaeology* 23(4):357-384.
- Butler, Virginia L., and Sarah K. Campbell, 2004, Resource intensification and resource depression in the Pacific Northwest of North America: a zooarchaeological review. *Journal of World Prehistory* 18(4):327-405.
- Dean, Rebecca M., 2007, Hunting intensification and the Hohokam "collapse". *Journal of Anthropological Archaeology* 26(1):109-132.
- Wolverton, Steve et al., 2008, White-tailed deer harvest pressure & within bone nutrient exploitation during the mid- to late-Holocene in southeast Texas. *Before Farming* 2: 1-23.

Week 3 (Jan 25th): H/G Plant Intensification and Marine Intensification

- Eerkens, Jelmer W. and Jeffrey S. Rosenthal, 2002, Transition from geophyte to seed processing : evidence for intensification from thermal features near China Lake, northern Mojave Desert. *Pacific Coast Archaeological Society quarterly* 38(2-3):19-36.

- Eerkens, Jelmer W., 2003, Sedentism, storage, and the intensification of small seeds: prehistoric developments in Owens Valley, California. *North American archaeologist* 24(4):281-309.
 - Perry, Jennifer, 2002-2004, Resource intensification and environmental variability: subsistence patterns in middle and late period deposits at CA-SBA-225, Vandenberg Air Force base, California, *Journal of California and Great Basin anthropology* 24(1): 81-102.
 - Nagaoka, Lisa, 2006, Prehistoric seal carcass exploitation at the Shag Mount site, New Zealand. *Journal of Archaeological Science* 33:1474-1481.
 - Milner, Nicky, James Barrett, and Jon Welsh, 2007, Marine Resource Intensification in Viking age Europe. *Journal of Archaeological Science* 34(9): 1461-1472.
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Week 4 (Feb 1st): Transition to Farming, Part 1 (General Theory)

- Bender, Barbara, 1978, Gatherer-Hunter to Farmer: A Social Perspective. *World Archaeology* 10(2):204-222.
 - Rindos, David, 1980, Symbiosis, Instability, and the Origins and Spread of Agriculture: A New Model. *Current Anthropology* 21(6):751-772.
 - Redding, Richard, 1988, A General Explanation of Subsistence Change: From Hunting and Gathering to Food Production. *Journal of Anthropological Archaeology* 7:56-97.
 - Hayden, Brian, 1990, Nimrods, Piscators, Pluckers, and Planters: The Emergence of Food Production. *Journal of Anthropological Archaeology* 9:31-69.
 - Winterhalder, Bruce, 1990, Open Field, Common Pot: Harvest Variability and Risk Avoidance in Agricultural and Foraging Societies. In *Risk and Uncertainty in Tribal and Peasant Economies*, ed., by Elizabeth Cashdan, pp. 67-87. Westview Press, Boulder.
 - Layton, Robert, Robert Foley, and Elizabeth Williams, 1991, The Transition between Hunting and Gathering and the Specialized Husbandry of Resources: A Socio-ecological Approach. *Current Anthropology* 32(3):255-274.
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Week 5 (Feb 8th): Transition to Farming, Part 2 (General Theory and Specific Case Studies)

- Blake, Michael et al., 1992, Non-Agricultural Staples and Agricultural Supplements: Early Formative Subsistence in the Soconusco Region, Mexico. In *Transitions to Agriculture in Prehistory*, pp. 133-151.
- Price, T. Douglas and A. B. Gebauer, 1995, New Perspectives on the Transition to Agriculture. In *Last Hunters, First Farmers: New Perspectives on the Prehistoric Transition to Agriculture*, ed. by T. D. Price and A. B. Gabauer, pp. 3-19. School of American Research Press, Santa Fe, New Mexico.
- Smith, Bruce D., 2001, Low-Level Food Production. *Journal of Archaeological Research* 9(1):1-43.
- Hayden, Brian, 2003, Were luxury foods the first domesticates? Ethnoarchaeological perspectives from Southeast Asia. *World Archaeology* 34(3):458-469.
- Smalley, John and Blake, Michael, 2003, Sweet beginnings: Stalk sugar and the domestication of maize. *Current Anthropology* 44(5): 675-703.

Week 6 (Feb 15th): Agricultural Strategies and Intensification, Part 1

- Boserup, Esther, 1965, *The Conditions of Agricultural Growth: The Economics of Agrarian Change under Population Pressure*. Aldine Publishing Company (pp. 11-121)
- Brookfield, Harold, 2001, Intensification and Alternative Approaches to Agricultural Change. *Asia Pacific Viewpoint* 42(2-3):181-192.
- Stone, Glenn D., 2001, Theory of the square chicken: advances in agricultural intensification theory. *Asia Pacific Viewpoint* 42(2-3):163-180.
- Erickson, Clark L. 2006, Intensification, Political Economy, and the Farming Community: In Defense of a Bottom-Up Perspective of the Past. In *Agricultural Strategies*, ed. by J. Marcus and C. Stanish, pp. 334-363. Cotsen Institute of Archaeology, UCLA.

Week 7 (Feb 22nd): Agricultural Strategies and Intensification, Part 2

- Ember, Carol R., 1983, The Relative Decline in Women's Contribution to Agriculture with Intensification. *American Anthropologist* 85:285-304.
- Stone, Glenn S., et al., 1990, Seasonality, Labor Scheduling, and Agricultural Intensification in the Nigerian Savanna. *American Anthropologist* 92:7-23.
- Stone, Glenn S., 1991, Agricultural Territories in a Dispersed Settlement System. *Current Anthropology* 32(3):343-353.
- Conelly, W. Thomas, 1992, Agricultural Intensification in a Philippine Frontier Community: Impact on Labor Efficiency and Farm Diversity. *Human Ecology* 20(2):203-223.
- Conelly, W. Thomas, and Miriam S. Chaiken, 2000, Intensive farming, agro-diversity, and food security under conditions of extreme population pressure in western Kenya, *Human Ecology* 28(1): 19-51.

Week 8 (Feb 29th): Agricultural Strategies and Intensification, Part 3 (Case Studies)

- Matheny, Ray T., and Deanne L. Gurr, 1983, Variation in Prehistoric Agricultural Systems in the New World, *Annual Review of Anthropology* 12:79-103.
- Guillet, David, 1987, Agricultural Intensification and Deintensification in the Lari, Colca Valley, Southern Peru. *Research in Economic Anthropology* 8:201-224.
- Hastorf, Christine, 1990, The Effect of the Inka State on Sausa Agricultural Production and Crop Consumption. *American Antiquity* 55(2): 262-290.
- VanDerwarker, Amber, 2005, Field cultivation and tree management in tropical agriculture: a view from Gulf Coastal Mexico. *World Archaeology* 37(2): 274-288.
- Lucero, Lisa J., 2006, Agricultural Intensification, Water, and Political Power in the Southern Maya Lowlands. In *Agricultural Strategies*, ed. by J. Marcus and C. Stanish, pp. 281-305. Cotsen Institute of Archaeology, UCLA.

Week 9 (March 7th): Agricultural Risk, Part 1

- Fenoaltea, Stefano, 1976, Risk, Transaction Costs, and the Organization of Medieval Agriculture. *Explorations in Economic History* 13(2):129-151.
 - Cancian, Frank, 1980, Risk and Uncertainty in Agricultural Decision Making. In *Agricultural Decision Making: Anthropological Contributions to Rural Development*, ed. by P. F. Bartlett, pp. 161-176. Academic Press, New York.
 - Walker, Thomas S. and N. S. Jodha, 1986, How Small Farm Households Adapt to Risk. In *Crop Insurance for Agricultural Development: Issues and Experience*, ed. by P. Hazell, C. Pomareda, and A. Valdés, pp. 17-34. The Johns Hopkins University Press, Baltimore.
 - Hegmon, Michelle, 1990, Risk Reduction and Variation in Agricultural Economies: A Computer Simulation of Hopi Agriculture. *Research in Economic Anthropology* 11:89-121.
 - Winterhalder, Bruce, Flora Lu, and Bram Tucker, 1999, Risk-Sensitive Adaptive Tactics: Models and Evidence from Subsistence Studies in Biology and Anthropology. *Journal of Archaeological Research* 7(4): 301-348.
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Week 10 (March 14th): Agricultural Risk, Part 2 (Case Studies)

- Browman, David L., 1987, Agro-Pastoral Risk Management in the Central Andes. *Research in Economic Anthropology* 8: 171-200.
- Halstead, Paul, 1989, The economy has a normal surplus: economic stability and social change among early farming communities of Thessaly, Greece. In *Bad Year Economics: Cultural Responses to Risk and Uncertainty*, ed. by P. Halstead and J. O'Shea, pp. 68-80. Cambridge University Press, Cambridge.
- Goland, Carol, 1993, Field Scattering as Agricultural Risk Management: A Case Study from Cuyo Cuyo, Department of Puno, Peru. *Mountain Research and Development* 13:317-338
- Stone, Glenn D., and Christian E. Downum, 1999, Non-Boserupian Ecology and Agricultural Risk: Ethnic Politics and Land Control in the Arid Southwest. *American Anthropologist* 101(1): 113-128.
- VanDerwarker, Amber M., 2009, Farming and Catastrophe at La Joya: A Consideration of Agricultural Intensification and Risk in the Formative Sierra de los Tuxtlas. *Arqueología Iberoamericana* 1:17-40.