



4.A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner.

YES

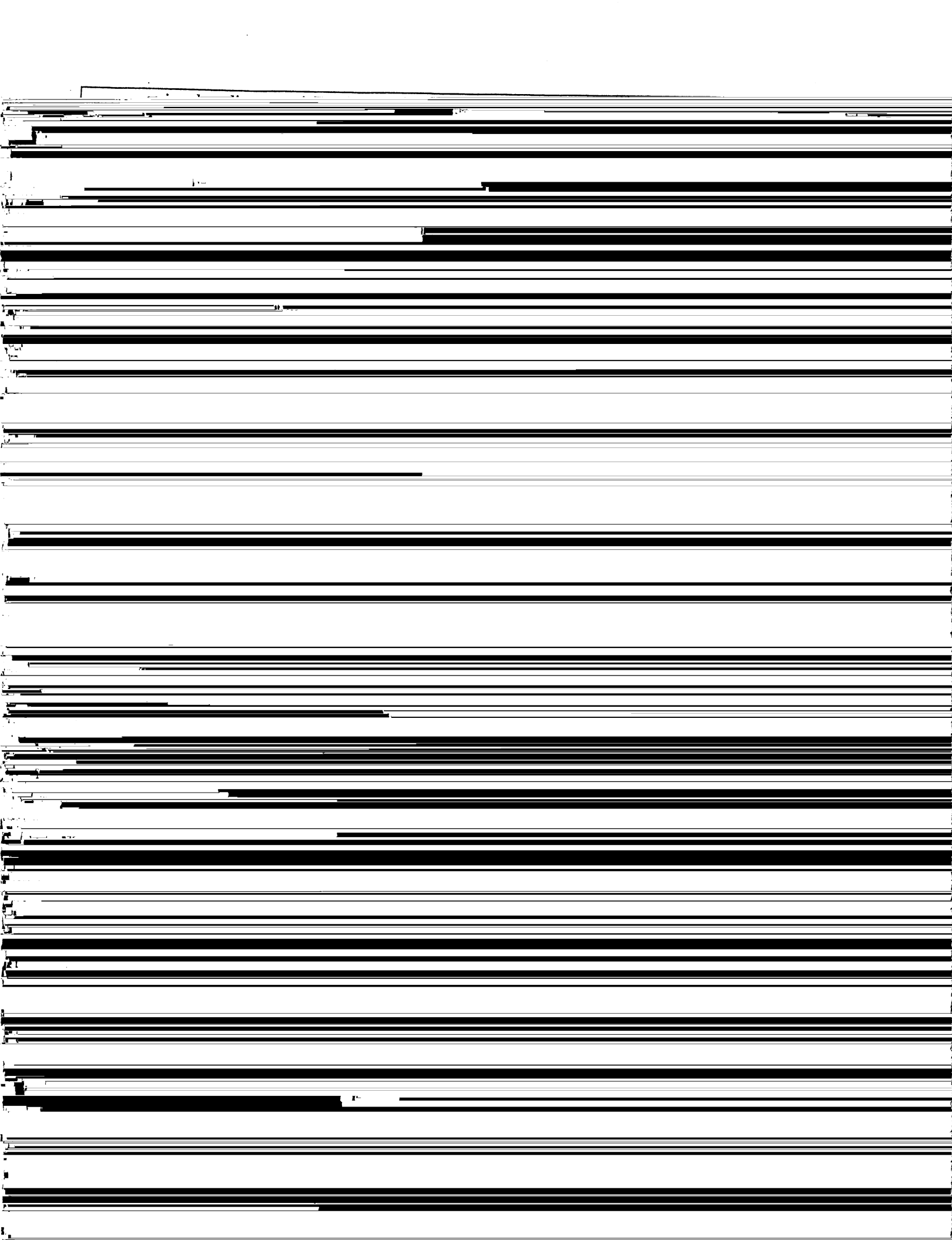
NO  |

5. COURSE REPEATABILITY:

Is this course repeatable for credit?  YES  NO

breakage, taphonomy and faunal remains, and human land use practices. Prerequisites: Graduate standing or permission of instructor. Stacked with ANTH F415. (3+2)

8. *IS THIS COURSE CURRENTLY CROSS-LISTED?*



**ANTH 415: Zooarchaeology and Taphonomy (3 credits: 3-0-0)**

**Instructor:** Jamie L. Clark  
**Email:** jlclark7@alaska.edu  
**Office:**

**TA:**  
**Email:**

**Office Phone:**

Reitz, Elizabeth J. and Elizabeth S. Wing. 2008. Zooarchaeology. 2<sup>nd</sup> edition. New York: Cambridge University Press.



Attendance is critical to your success in the class, and participation in lab and



- Readings:
1. Reitz and Wing (pp. 202-221)
  2. Lyman 2008 (pp. 214-263)
  3. Lyman 1985
  4. Metcalfe and Jones 1988
  5. Lam and Pearson 2005

Lab: Axial skeleton

Activity: Quiz #1 Crania/teeth  
Density exercise

**Week 5:**

**SPF II: Characterizing transport and processing decisions**

2. Stiner 2002
3. Cleghorn and Marean 2004
4. Lupo 2006
5. Bar-Oz and Munro 2004 (*recommended, but not required*)

Activity: Quiz #2 Axial skeleton

**Week 6:**

**Paleoecology I: Reconstructing past environments using**

species-level data

Activity: Quiz #4 Carnals/tarsals/feet

**Week 8:**

**Paleoecology III: Human impacts on ancient environments**

Readings: 1. Grayson 2001  
2. Dean 2005  
3. Emery and Thornton 2008

Lab: Bird Lab

Activity: Quiz #5 Complete skeleton

**Week 9:**

**Seasonality**

Readings: 1. Enloe and David 1997

3. Todd 1991  
4. Simmons and Nadel 1998

Lab: Fish Lab (& Marine Mammals?)

Readings: 1. Koch and Barnosky 2006.

2. Prescott et al. 2012

3. Munro 2004

Lab: Cataloging/Rehousing Collections

**Week 12:**

**The evolution of human diets: the origins of agriculture**

Readings: 1. Reitz and Wing 2008 Ch. 9

2. Zeder and Hesse 2000

3. Zeder et al. 2006 (fossilized teeth show...)

4. Greenfield et al. 1988

**Week 13:**

Course Bibliography

equifinality in zooarchaeological studies. *Journal of Taphonomy* 2(4):201-222.

Blumenshine, R. J., C. W. Marean and S. D. Capaldo

1996. Blind test of inter-analyst correspondence and accuracy in the identification of cut

marks, percussion marks and carnivore tooth marks on bone surfaces. *Journal of*

Grayson, D. K.

1981 A critical view of the use of archaeological matchboxes

Marean, C. W. and C. J. Frey  
1997 Animal Bones from Caves to Cities: Reverse Utility Curves as Methodological  
Artifacts. *American Antiquity* 62(4):698-711.

Meltzer, D.J.

*Studies in Environmental Archaeology*, edited by E. Reitz, C. M. Scarry and S. J. Scudder, pp. 357-374. 2nd ed. Springer, Dordrecht, The Netherlands.

Shaffer, B. S.

1992. Quarter-inch screening: understanding biases in mammal recovery. *Journal of Archaeological Science* 19: 1-10.

Simmons, T. and D. Nadel

1998. The Avifauna of the Early Epineolithic Site of Ohalo II (10,400 BP). *Journal of Archaeological Science* 25: 1-10.

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Yeshurun, R., N. Marom, G. Bar-Oz

2007 Differential fragmentation of different ungulate body-size: a comparison of

*Journal of Taphonomy* 5:137-148.

*Journal of Taphonomy* 5:137-148.

Zeder, M. A.

1988 Understanding Urban Process through the Study of Specialized Subsistence

*Journal of Anthropological Archaeology* 7:1-55



ANTH 615: Zooarchaeology and Taxonomy

Reitz, Elizabeth J. and Elizabeth S. Wing. 2008. Zooarchaeology. 2<sup>nd</sup> edition. New York: Cambridge University Press.

Lyman R. Lee. 1991. Vertebrate Taphonomy. New York: Cambridge University Press.

Lyman, R. Lee. 2008. Quantitative Paleozoology. New York: Cambridge University Press.

**Grading:**

Lab Notebook 15%

Quizzes 10%

Lab Assignments/Project 10%

Lab Practical Exam 15%

Discussion Questions 10%

Critical Summaries 10%

assignments (e.g., quantification methods, measurements, etc.) You will be able to use your lab notebooks on the exam.

Diagrams

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**Other Information/Course policies:**

-Grades will be based the following scale: 100-98 A+; 97-93 A; 92-90 A-; 89-87 B+

86-83, B, 82-80, B-, etc.

-Attendance is critical to your success in the class, and participation in lab and discussions is part of your grade. In order for absences to be excused, you must have your absence cleared with me in advance of class. Assignments missed as a result of an unexcused absence cannot be made up.

Please be considerate of your fellow students (and instructors): cell phones should be

If you must enter late (or leave early), please do so as

Activity: Table

Week 4.

### Skeletal Part Frequencies I: Bone density and utility indices

Readings: 1. Reitz and Wing (pp. 202-221)

2. Lyman 2008 (pp. 214-263)
3. Lyman 1985
4. Metcalfe and Jones 1988

5. Lam and Pearson 2005

### Lab: Axial skeleton

Activity: Quiz #1 Crania/teeth

Week 5.

Defining a II-DN environment using isotone data

- Readings:
1. Meltzer 2006
  2. Emery et al. 2000
  3. White et al. 2009 (read also SOM sections on isotones)

II-DN 1. II-DN (Medium) whole data

**Week 11:****The Later Pleistocene/Early Holocene: Megafaunal Extinctions and Intensification**

- Readings:
1. Koch and Barnosky 2006
  2. Prescott et al. 2012
  3. Munro 2004

Lab: Cataloging/Behavioral Analysis

**Week 12:**

The evolution of human diet: the shift to agriculture

Lab: Catalog sheets due at the end of lab

**PAPER DUE DURING SCHEDULED FINAL EXAM TIME: XXX**

**Course Bibliography**

Bar-Oz, G. and N. D. Munro

2004 Beyond cautionary tales: a multivariate taphonomic approach for resolving equifinality in zooarchaeological studies. *Journal of Taphonomy* 2(4):201-222.

D. ... .. P. ... .. S. D. ... ..



Enloe, J. G. and F. David  
1997 *Ranaifer* hard hat

Lyman, R. L.

1985 Bone Frequencies: Differential Transport, In Situ Destruction, and the MGUI.  
*Journal of Archaeological Science* 12:221-236.

1994 *Vertebrate Taphonomy*. Cambridge University Press, Cambridge.

2008 *Quantitative Paleozoology*. Cambridge University Press, New York.

Moran, C. W. and C. J. Egan

1983 Faunal Remains and Social Status in 19th Century Sacramento. *Historical Archaeology* 17(1):44-53.

Scott, E. M.

1990 ~~\_\_\_\_\_~~

Howell, T. Lehmann, A. Likius, C. Pehlevan, H. Saegusa, G. Semprebon, M. Teaford, E. Vbra.