

Bio 45 -- Animal Behavior -- Reading List 2 -- 2002

Week 5 -- from reading list #1

1 - Mon., 30 Sept. - Designing Optimal Organisms -- Optimal Foraging Theory - 1

1. Alcock - Ch. 8, pp. 231-238
2. Cristol, D. 2001. American crows cache less preferred walnuts. *Anim. Behav.* 62(Aug): 331-336 – e-journal – a study that you could easily do around here!

2 - Fri., 4 Oct. - Optimal Foraging Theory - 2

1. Alcock – Alcock – Ch. 8, pp. 238-246
2. Robinette, R. & J. Ha. 2001. Social and ecological factors influencing vigilance by northwestern crows, *Corvus caurinus*. *Anim. Behav.* 62(Sept): 447-452 e-journal – relates to journal exercise.

Week 6

**** Journal Exercise #2 - Due in class Friday - see Handout for details ****

3 - Mon., 7 Oct. -- Adding More Reality to our Models

1. Alcock Ch. 8, pp. 215-219 and 227-131
2. Norris, K. 1999. A trade-off between energy intake and exposure to parasites in oystercatchers feeding on a bivalve mollusc. *Proc. Roy. Soc. Lond. B* 266:1703-1709. e-journal – for section

***** Discussion #4 - Do Oystercatcher Forage Optimally? *****

4 - Wed., 9 Oct. - Getting Around - Migration And Navigation

1. Alcock Ch. 9, skim pp. 249-259, read pp. 259-266
2. Alcock Ch. 8, pp. 219-227

5 - Fri., 11 Oct. – The Nature of Communication

1. Alcock Ch. 10, pp. 281-287 and 292-315

Week 7

Mon., 14 Oct. -- **HOLIDAY** -- Sections **DO** meet this week!

***** Discussion #5 - Film: Basics of Communication *****

6 - Wed., 16 Oct. - Games and Game Theory

1. What Alcock has to say about game theory - see index – exclude material on pp. 431-433

7 - Fri., 18 Oct. - Territories and Contests

1. Alcock - Ch. 9: 266-278

Week 8

8 - Mon., 21 Oct. - Males and Females

1. Alcock - Ch. 11: 318-327

***** Discussion #6 – The Nature of Sex *****

9 - Wed., 23 Oct. - Sexual Selection - Reproductive Competition

1. Alcock - Ch. 11: 327-331

Over →

10 - Fri., 25 Oct. – Alternative tactics

1. Alcock – Ch. 11: 332-341

Week 9

**** Journal Exercise #3 - Due in class Monday - see Handout for details ****

11 - Mon., 28 Oct. -- Sexual Selection - Mate Choice

1. Alcock - Ch. 11: 341-346
2. Petrie, M. et. al. 1991. Peahens Prefer Peacocks with Elaborate Trains. Anim. Behav. 41:323-331 [see web site for paper] for section

***** Discussion #7 - Peacock trains and female choice *****

12 - Wed., 30 Oct. -- Sexual Selection - Mate Choice Models

1. Alcock - Ch. 11: 346-358
2. Alcock - Ch. 10: 292-298.
3. Brooks, R and D Kemp. 2001. Can older males deliver the good genes? Trends Ecology & Evolution 16:308-313 e-journal

13 - Fri., 1 Nov. – Mate Choice overview

1. Olson, V. & I.P. Owens. 1998. Costly sexual signals: are carotenoids rare, risky or required? Trends Ecology & Evolution 13: 510-514. e-journal
2. Amundsen, T. 2000. Why are female birds ornamented? Trends Ecology & Evolution 15: 149-155. e-journal

Week 10

14 - Mon., 4 Nov. – Sexual Selection overview

1. Weins, J. 2001. Widespread loss of sexually selected traits: how the peacock lost its spots. Trends Ecology & Evolution 16:517-523 e-journal
2. Vincent, A., et. al. 1992. Pipefishes and Seahorses: Are they sex role reversed? Trends Ecology & Evolution 7:237-241 [see web site for paper]

***** No Discussion Sections this week*****

Wed., 6 Nov. – Second HOUR EXAM -- in class

- Covers material for lectures 1 - 14
- Covers Alcock and assigned readings above plus any others assigned for discussion sections

Part Three of the Course: Complete Reading List to follow

1 - Fri., 8 Nov. - Mating Systems

1. Alcock Ch. 12
2. Jirotkul, M. 1999. Operational sex ratio influences female preference and male-male competition. Anim. Behav. 58:287-294 e-journal

Week 11

2 - Mon., 11 Nov. – Parental Care