

Animal Behavior

Bio472 – Spring 2020

Course Schedule

(subject to change)

| Week | Date | Lecture Topic | Reading | Lab Activity |
|--------|-----------|--|--|---|
| 1 | 22-Jan | Principles of Animal Behavior | Ch 1 | --no lab-- |
| | 24-Jan | Paper Discussion: Testing Alternative Hypotheses | primary literature | |
| 2 | 27-Jan | Evolution & Heritability of Behavior | Ch 2 | How to Observe Animal Behavior (Lab handout) |
| | 29-Jan | Evolution & Heritability of Behavior | Ch 2 | |
| | 31-Jan | Paper Discussion: Heritability of behavior | primary literature | |
| 3 | 3-Feb | Proximate Factors | Ch 3 + Ch 4 | Pt Defiance Zoo Trip (Zoo packet) |
| | 5-Feb | Behavioral Endocrinology / Reflection 1 due | Ch 3 | |
| | 7-Feb | Paper Discussion: Hormones and Behavior | primary literature | |
| 4 | 10-Feb | Behavioral Endocrinology | Ch 3 & Vandenberg (2003) | Zoo Project Presentations & Planning Cricket Behavior (Zoo packet + Lab handout) |
| | 12-Feb | Learning | Ch 5 + Ch 6 (omit p133-141) | |
| | 14-Feb | Learning Bird Song | Catchpole & Slater Ch 3 (focus on 3.2 & 3.3) | |
| 5 | 17-Feb | Neurobiology of Bird Song | Catchpole & Slater Ch 2 (focus on 2.4) | Using Jw atcher Cricket Behavior (cont'd) (Lab handouts) |
| | 19-Feb | Animal Communication / Reflection 2 due | Ch 13 | |
| | 21-Feb | Paper Discussion: Animal Communication | primary literature | |
| 6 | 24-Feb | Sexual Selection | Ch 7 | Zoo Practice Visit & Logistics (Zoo packet) |
| | 26-Feb | Sexual Selection | Ch 7 | |
| | 28-Feb | Paper Discussion: Mate Choice Models | primary literature | |
| 7 | 2-Mar | Sexual Selection | Ch 7 | Paper Presentations Grant Dissection (Proposal packet) |
| | 4-Mar | Sexual Selection | Ch 7 + p422 | |
| | 6-Mar | Paper Discussion: Signal Honesty | primary literature | |
| 8 | 9-Mar | Sexual Selection | Ch 7 | OPEN LAB |
| | 11-Mar | Working with the Models | --- | |
| | 13-Mar | Sexual Selection / Reflection 3 due | Ch 7 | |
| 9 | 16-20 Mar | SPRING BREAK | | |
| 10 | 23-Mar | Mating Systems | Ch 8 | Individual Conferences (i.e., mostly an OPEN LAB) (Proposal packet) |
| | 25-Mar | Mating Systems | Ch 8 | |
| | 27-Mar | Paper Discussion: Mating Systems | primary literature | |
| 11 | 30-Mar | Kinship | Ch 9 | Grant Writing Workshop (sales pitch and complete draft of grant proposal required) (Proposal packet) |
| | 1-Apr | Kinship | Ch 9 | |
| | 3-Apr | Paper Discussion: Kinship / Reflection 4 due | primary literature | |
| 12 | 6-Apr | Aggression | Ch 15 | Zoo Data Entry Catch-Up (Zoo packet) |
| | 8-Apr | Aggression | Ch 15 | |
| | 10-Apr | Aggression | Ch 15 | |
| 13 | 13-Apr | Applied Animal Behavior - guest lecture | --- | Statistics and Poster-making Workshop -- bring a laptop if possible -- (Zoo packet) |
| | 15-Apr | Paper Discussion: Aggression | primary literature | |
| | 17-Apr | --Poster Prep Session-- | --- | |
| 14 | 20-Apr | Working with the Models | --- | Zoo Talk Prep Party -- bring a laptop if possible -- (Zoo packet) |
| | 22-Apr | Cooperation / Reflection 5 due | Ch 10 | |
| | 24-Apr | Cooperation | Ch 10 | |
| 15 | 27-Apr | Working with the Models | --- | Zoo Talk Prep Party II -- bring a laptop if possible -- (Zoo packet) |
| | 29-Apr | Paper Discussion: Cooperation | primary literature | |
| | 1-May | Behavioral Syndromes | Sih et al. (2004) | |
| 16 | 4-May | Monday Lab's Practice Zoo Talk | --- | Grant Review Panel (Proposal packet) |
| | 6-May | Tuesday Lab's Practice Zoo Talk / Reflection 6 due | --- | |
| FINALS | | Paper Analysis & Project Reflections Due (by 15 May at 5pm) Presentation to PDZA Staff (date TBD) | | |

Important dates associated with the development of your research proposal

(Details of each listing can be found in the Research Proposal Packet on Canvas)

| date | assignment / event |
|------------------------------|---|
| Week 2 Lab | Articles of Interest due |
| Week 3 Lab | Theories & Anchors due |
| Week 5 Lab | Finding Relevant Literature assignment due |
| Week 7 Lab | Paper Presentations Assessing Literature assignment due |
| Week 10 Lab | Individual Conferences with Stacey Outline of proposed work due |
| Week 11 Lab | <u>Grant Writing Workshop:</u> Sales pitch of proposal Full draft of proposal due |
| Week 12 Lab | Grant Proposal due |
| Week 16 Lab | <u>Grant Review Panel:</u> Written Peer Evaluations due |
| Finals Week Friday by 5:00pm | Concluding Reflection |

Important dates associated with the zoo study

(Details of each listing can be found in the Zoo Study Packet on Canvas)

| date | assignment / event |
|------------------------------|---|
| Week 3 Lab | Zoo trip! Yeah! |
| Week 4 Lab | Papers & Project Idea Presentations Lab discussion |
| Week 6 Lab | Sample ethogram / Zoo logistics |
| **Week 6-12** | Data collection! So cool! |
| Week 12 Lab | Data entry catch-up session |
| Week 13 Lab | Stats & poster-making workshop |
| Week 13 | Stats & figs drafted / Conference & work session |
| Week 14 Lab | Abstract and Poster due / Talk Prep Party! |
| Week 15 Lab | More talk prep |
| Week 16 Monday & Wednesday | Practice zoo talk to peers |
| Finals Week | Presentation to zoo staff |
| Finals Week Friday by 5:00pm | Concluding Reflection |

Reflection Portfolio due dates

(Details can be found in the Reflection Portfolio document on Canvas)

| date | assignment |
|-------------------|---------------|
| Week 3 Wednesday | Reflection 1* |
| Week 5 Wednesday | Reflection 2 |
| Week 8 Friday | Reflection 3* |
| Week 11 Friday | Reflection 4 |
| Week 14 Wednesday | Reflection 5* |
| Week 16 Wednesday | Reflection 6 |

*Must include response to additional prompt re: contributions to paper discussions

Guidelines for assignments are posted on Canvas