

Fall 2019 - EEB 698 Sec. 2 Graduate Seminar
By Dr. Nicole Valenzuela (Wed 3:10-4pm, 231E Bessey)

Evolutionary Ecology of Sex

We'll discuss Judson's (2002) book "Dr. Tatiana's Sex Advice to All Creation" and recent relevant papers from the primary literature.

This book is available at ISU's Book Store.



DR. TATIANA'S SEX ADVICE TO ALL CREATION

The Definitive Guide to the Evolutionary Biology of Sex

The seminar covers the evolution of sex, mating systems, and sexual selection.

The book provides an entertaining account of the natural history and evolutionary background to questions such as:

- Why do some organisms have sexual reproduction whereas others do not?
- Why do different species have different numbers of sexes?
- What determines whether individuals are single-sexed or hermaphrodite?
- Why do some species usually have imbalanced sex ratios while others do not?
- Why is sex sometimes determined genetically and sometimes environmentally?
- What are the causes and consequences of the different mating systems seen in the natural world?

Table of Contents from *Dr. Tatiana's Sex Advice to All Creation*

Agony and Ecstasy: A Note from Dr. Tatiana

Part 1: Let Slip the Whores of War!

- A Sketch of the Battlefield
- The Expense is Damnable
- Fruits of Knowledge
- Swords or Pistols
- How to Win Even if You're a Loser

Part 2: The Evolution of Depravity

- How to Make Love to a Cannibal
- Crimes of Passion
- Hell Hath No Fury
- Aphrodisiacs, Love Potions and Other Recipes from Cupid's Kitchen
- Till Death Do Us Part

Part 3: Are Men Necessary? Usually, but Not Always

- The Fornications of Kings
- Eve's Testicle
- Wholly Virgin

PLEASE NOTE THAT THIS IS NOT THE SAME COURSE AS EEOB514, BUT A LIGHTER 1cr SUBSET TO BE TAUGHT AS A 1cr EEB698 SEMINAR.

Evolutionary Ecology of Sex, Fall 2019

Date	Dr. Tatiana's Readings	Primary Literature Readings
8/27/2019	General Introductory Meeting	
	Part I	
9/3/2019	Chapter 1	Reynolds 1996, Ota et al 2018
9/10/2019	Chapter 2	Tang-Martinez 2016
9/17/2019	Chapter 3	Gowaty2012
9/24/2019	Chapter 4	Kralj-Fišer&Kuntner2012
10/1/2019	Chapter 5	Smith&Ryan2010
	Part II	
10/8/2019	Chapter 6	LiEtAl2012
10/15/2019	Chapter 7	Hruskova-MartisovaEtAl2010
10/22/2019	Chapter 8	TobiasEtAl2012
10/29/2019	Chapter 9	MacFarlaneEtAl2007
11/5/2019	Chapter 10	Hosken et al 2009
11/12/2019	Chapter 11	Langen et al 2011
	Part III	
11/19/2019	Chapter 12	Perrin 2012
11/26/2019	THANKSGIVING BREAK	
12/3/2019	Chapter 13	Hartfield&Keightley2012
	Conclusion	
12/10/2019	Postscript. General Discussion	Redfield2001