

Week 1: September 8-11

- Darwin, C. 1859. Chapter IV - Natural selection; or the survival of the fittest, pp. 107-71. In *The Origin of Species*.
- Freeman, S and JC Herron. 2007. Pp. 73-94. In *Evolutionary Analysis*, fourth edition.
- Olshansky, SJ, BA Carnes, and RN Butler. 2001. If humans were built to last. *Scientific American* 3:50-55.
- Zimmer, C. 2009. On the origin of sexual reproduction. *Science* 324:1254-56.

Week 2: September 14-18

- Gwynne, DT. 1998. Genitally does it. *Nature* 393:734-5.
- Milius, S. 2009. A most private evolution. Dumb designs for sex: Evolutionary biology walks on the weird side. *Science News* 175:16-20.
- Palmer, AR. 2006. Caught right-handed. *Nature* 444:689-92.
- Zuk, M. 2002. Chapter 6 - Sex and the *Scala Naturae* (or, worms in the gutter), pp. 93-106. In *Sexual Selections: What we can and can't learn about sex from animals*. Berkeley, CA: University of California Press.

Week 3: September 21-25

- Freeman, S. 2008. Pp. 254-258 In *Biological Science, 3rd edition*. San Francisco, CA: Pearson Benjamin Cummings.
- Low, BS. 2000. Chapter 3 - The Ecology of Sex Differences, pp. 35-56. In *Why Sex Matters: A Darwinian Look at Human Behavior*. Princeton, NJ: Princeton University Press.
- Ridley, M. 2003. Pp. 91-110. In *The Red Queen: Sex and the Evolution of Human Nature*. New York: HarperCollins.

Week 4: September 28 - October 2

- Jegalian, K and BT Lahn. 2001. Why the Y is So Weird. *Scientific American* 2:56-61.
- Judson, O. 2002. Pp. 187-95. In *Dr. Tatiana's Sex Advice to all Creation*. New York: Henry Holt and Company.
- Majerus, MEN. 2003. Chapter 3 - Sex determination, pp. 49-83. In *Sex Wars. Genes, bacteria, and biased sex ratios*. Princeton, NJ: Princeton University Press.
- Ridley, M. 2003. Pp. 110-14. In *The Red Queen: Sex and the Evolution of Human Nature*. New York: HarperCollins.

Week 5: October 5-9

- Judson, O. 2002. Chapter 13 - Wholly Virgin, pp. 212-232. In *Dr. Tatiana's Sex Advice to all Creation*. New York: Henry Holt and Company.

Ridley, M. 2003. Chapter 2 - The Enigma, pp. 23-51. In *The Red Queen: Sex and the Evolution of Human Nature*. New York: HarperCollins.

Ridley, M. 2003. Chapter 3 - The Power of parasites, pp. 53-87. In *The Red Queen: Sex and the Evolution of Human Nature*. New York: HarperCollins.

Week 6: October 14-16

No reading

Week 7: October 19-23

Judson, O. 2002. Chapter 11 - The fornications of kings, pp. 169-186. In *Dr. Tatiana's Sex Advice to all Creation*. New York: Henry Holt and Company.

Michiels, NK and LJ Newman. 1998. Sex and violence in hermaphrodites. *Nature* 391:647.

Week 8: October 26-30

Silvertown, J. 2009. Chapter 3 - Even beans do it: Sex, pp. 21-37. In *An Orchard Invisible. A Natural History of Seeds*. Chicago, IL: University of Chicago Press.

Silvertown, J. 2009. Chapter 4 - Before the seed: Pollination, pp. 39-49. In *An Orchard Invisible. A Natural History of Seeds*. Chicago, IL: University of Chicago Press.

Pollan, M. 2009. Love and lies. *National Geographic Magazine*, September, 100-121.

Week 9: November 2-6

Bateman, AJ. 1948. Intra-sexual selection in *Drosophila*. *Heredity* 2:349-68.

Bower, B. 2009. The Dating Go Round. Speed dating offers scientists a peek at how romance actually blossoms. *Science News* 175:22-25.

Darwin, CR. 1871. Chapter VIII - Principles of sexual selection, pp. 567-597. In *The Descent of Man and selection in relation to sex*.

Judson, O. 2002. Chapter 1 - A sketch of the battlefield, pp. 7-20. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Knight, J. 2002. Sexual stereotypes. *Nature* 415:254-56.

Week 10: November 9-13

Birkhead, T. 2000. Chapter 6 - Mechanisms of sperm competition and sperm choice, pp. 164-193. In *Promiscuity: An evolutionary history of sperm competition*. Cambridge, Massachusetts: Harvard University Press.

Hedrick, AV and Temeles, EJ. 1989. The evolution of sexual dimorphism in animals: hypotheses and tests. *Trends in Ecology and Evolution* 4:136-138.

Judson, O. 2002. Chapter 2 - The expense is damnable, pp. 21-39. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Judson, O. 2002. Chapter 4 - Swords or pistols, pp. 60-75. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Week 11: November 16-20

Judson, O. 2002. Chapter 5 - How to win even if you are a loser, pp. 76-92. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Ridley, M. 2003. Chapter 5 - The peacock's tale, pp. 129-169. In *The Red Queen: Sex and the Evolution of Human Nature*. New York: HarperCollins.

Week 12: November 23-27

Thanksgiving break, no reading

Week 13: November 30 - December 4

Birkhead, T. 2000. Chapter 7 - The benefits of polyandry, pp. 195-233. In *Promiscuity: An evolutionary history of sperm competition*. Cambridge, Massachusetts: Harvard University Press.

Judson, O. 2002. Chapter 3 - Fruits of knowledge, pp. 40-59. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Judson, O. 2002. Chapter 6 - How to make love to a cannibal, pp. 95-104. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Judson, O. 2002. Chapter 7 - Crimes of passion, pp. 105-121. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company. (optional)

Judson, O. 2002. Chapter 8 - Hell hath no fury, pp. 122-131. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Judson, O. 2002. Chapter 9 - Aphrodisiacs, love potions, and other recipes from Cupid's kitchen, pp. 132-151. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Majerus, MEN. 2003. Chapter 2 - The sex ratio, pp. 36-48. In *Sex Wars. Genes, bacteria, and biased sex ratios*. Princeton, NJ: Princeton University Press.

Week 14: December 7-11

Allchin, D. 2006. Male, female and/or? How does nature define the sexes? *The American Biology Teacher* 68:372-375.

Angier, N. 1999. Chapter 2 - The Mosaic Imagination: Understanding the "female" chromosome, pp. 18-38. In *Woman: An Intimate Geography*. New York: Random House.

Lehrman, S. 2007. Going beyond X and Y. *Scientific American* 6:40-41.

Roughgarden, J. 2004. Chapter 2 - Sex versus gender, pp. 22-29. In *Evolution's Rainbow. Diversity, Gender, and Sexuality in Nature and People*. Berkeley, CA: University of California Press.

Roughgarden, J. 2004. Chapter 3 - Sex within Bodies, pp. 30-42. In *Evolution's Rainbow. Diversity, Gender, and Sexuality in Nature and People*. Berkeley, CA: University of California Press.

Paper critique articles (select one):

Anderson, B, WW Cole, and SCH Barrett. 2005. Specialized bird perch aids cross-pollination. *Nature* 435:41-42 (plus all supplementary methods).

Brennan, PLR, RO Prum, KG McCracken, MD Sorenson, RE Wilson, and TR Birkhead. 2007. Coevolution of male and female genital morphology in waterfowl. *PLoS ONE* 2:e418.

Gaskett, AC. 2008. Orchid sexual deceit provokes ejaculation. *American Naturalist* 171:E206-E212.

Hansen, DM, HC Kiesbüy, CG Jones, and CB Müller. 2007. Positive indirect interactions between neighboring plant species via a lizard pollinator. *American Naturalist* 169: 534–542.

Michiels, NK and B Bakovski. 2000. Sperm trading in a hermaphroditic flatworm: reluctant fathers and sexy mothers. *Animal Behavior* 59:319-325.

Neufeld, CJ and AR Palmer. 2008. Precisely proportioned: intertidal barnacles alter penis form to suit coastal wave action. *Proceedings of the Royal Society of London B* 275:1081-1087.

Velando, A, J Eiroa, and J Domínguez. 2008. Brainless but not clueless: earthworms boost their ejaculates when they detect fecund non-virgin partners. *Proceedings of the Royal Society of London B* 275:1067-1072.

Personal Ads exercise (*Supplementary, recommended readings)

*Buss, DM. 1994. The Strategies of Human Mating. *American Scientist* 82:238-249.

Bower, B. 2009. The Dating Go Round. Speed dating offers scientists a peek at how romance actually blossoms. *Science News* 175:22-25.

Judson, O. 2002. Chapter 1 - A sketch of the battlefield. In *Dr. Tatiana's Sex Advice to All Creation*. New York: Henry Holt and Company.

Knight, J. 2002. Sexual stereotypes. *Nature* 415:254-56.

*McGraw, KJ. 2002. Environmental predictors of geographic variation in human mating preferences. *Ethology* 108:303-317.

*Otta, E, Queiroz, RDS, Campos, LDS, da Silva, MWD., Silveira, MT. 1999. Age differences between spouses in a Brazilian marriage sample. *Evolution and Human Behaviour* 20: 99-103.