BIOL 490R Section 001: Evolution of Sex Schedule — Spring 2025 Schedule: This schedule is not fixed and is subject to change throughout the course.

Week	Date	Topics	Assigned Reading
1	08 Jan	Welcome and Course Introduction	How to Read and Understand a Scientific Article
2	15-Jan	Discussion: Why Did Sex Evolve?	Ah-King and Nylin 2010: Sex in an evolutionary Perspective: Just another reaction norm
3	22-Jan	Lecture: Evolution of Sex Chromosomes	Furman et al. 2020: Sex chromosome evolution: So many exceptions to the rules OR Bachtrog et al. 2014: Sex Determination: Why so many ways of doing it?
4	29-Jan	Discussion on Sex Chromosomes (Lead: Group 1)	Blackmon et al. 2017: Sex Determination, Sex Chromosomes, and Karyotype Evolution in Insects
5	05-Feb	Lecture: Sex Determination and Pathways	Capel 2017: Vertebrate sex determination: evolutionary plasticity of a fundamental switch
6	12-Feb	Discussion on Pathways (Lead: Group 2)	Gonen et al. 2018: Sex reversal following a deletion of a single distal enhancer of Sox9
7	19-Feb	Lecture/Discussion: Mating Systems	Clutton-Brock 1997: Mammalian mating systems
8	26-Feb	Lecture: Sexual Selection and Sexual Conflict	Watch Pre-Recording: Sexual Dimorphism Clutton-Brock 2009: Sexual selection in females
9	05-Mar	Discussion: Sexual Selection (Lead: Group 3)	Lipshutz 2017: Divergent competitive phenotypes between females of two sex-role-reversed species
	12-Mar	Spring Break – No Class	
10	19-Mar	Lecture: Cooperative Reproduction and Eusociality	Clutton-Brock 2002: Breeding together: kin selection and mutualism in cooperative vertebrates & Nowak et al. 2010: The evolution of eusociality
11	26-Mar	Discussion: Cooperation (Lead: Group 4)	Krakauer 2005: Kin selection and cooperative courtship in wild turkeys
12	02-Apr	Lecture: Flexibility in Sex and Reproduction	Vega-Frutis et al. 2014: Sex change in plants and animals: a unified perspective
13	09-Apr	Discussion: Sex Flexibility (Lead: Group 5)	Mahmud and Struwe 2020: when the going gets tough, the tough turn female: injury and sex expression in a sex-changing tree"
14	16-Apr	Discussion: Sex Implications in Society	TBA
15			
16	28-Apr	Final Assignment Submission Due Monday April 28, 2025, 11:59pm	