FW 444 Conservation Biology Spring 2022 Course Schedule

Reminders

All homework is due Thursdays at the start of class (8:30am), unless otherwise specified
You are expected to have completed readings and homework prior to the start of Thursday discussions
Readings (if not The Sixth Extinction) and homework will be posted on D2L by the previous Friday
Individual topics are subject to change week to week

As long as this course is online

Tuesday lectures will be asynchronous (recorded and posted on D2L)
Thursday discussions will be synchronous (live on Zoom)
https://msu.zoom.us/j/97765955151
Password: consbio

Week	Date	Topic	Reading	Homework
1	Tues, Jan 11	Lecture: What kind of bear is best? A contemporary conservation prelude	The syllabus and course schedule. They're both page-turners!	Pre-course survey due Sun Jan 16
1	Thurs, Jan 13	Discussion: Course overview and expectations		
2	Tues, Jan 18	Lecture: Conservation what?	Soule 1985, Kareiva and Marvier 2012	WK 2 HW: Conservation Mission Statement
2	Thurs, Jan 20	Discussion: Finding a common mission for conservation		
3	Tues, Jan 25	Lecture: Biodiversity through space and time	The Sixth Extinction: Prologue and Ch 1-3 (69 pages)	WK 3 HW: Book Club Lanch Party Planning
3	Thurs, Jan 27	Discussion: Introduce Book Club and Conservation Solutions Project, group brainstorm		
4	Tues, Feb 1	Lecture: Extinctions, Season 6	The Sixth Extinction: Ch 4-7 (77 pages)	WK 4 HW: What's your problem?

4	Thurs, Feb 3	Discussion: Weighing mass extinctions, Book Club/project work time (topic brainstorms)		
5	Tues, Feb 8	Lecture: Climate change	The Sixth Extinction: Ch 8 (24 pages)	WK 5 HW: Climate change: a conservation conundrum
5	Thurs, Feb 10	Discussion: Book club/Super Species!, project work time		Conservation Solutions Project problem submission due Sun Feb 13 by 11:59pm
6	Tues, Feb 15	Lecture: Habitat loss, fragmentation and degradation	The Sixth Extinction: Ch 9 (20 pages)	WK 6 HW: Obstacle courses
6	Thurs, Feb 17	Discussion: Book club/Obstacle courses, project work time		
7	Tues, Feb 22	Lecture: Space invaders	The Sixth Extinction: Ch 10 (24 pages)	WK 7 HW: Islands and ecological castaways
7	Thurs, Feb 24	Discussion: Return of the supercontinents (Book Club), project work time		
8	Tues, Mar 1	Lecture/discussion: First-half highlights, mid-term review	None	None
8	Thurs, Mar 3	Online midterm		
9	Tues, Mar 8	Spring break	None	None
9	Thurs, Mar 10	Spring break		
10	Tues, Mar 15	Lecture: Demographic considerations	Lyons et al. (2018)	WK 10 HW: Grizzly bears in the Pacific Northwest (reading guide)
10	Thurs, Mar 17	Discussion: Grizzly bears in the Pacific Northwest, project time		

11	Tues, Mar 22	Lecture: Pyrodiversity and biodiversity	Bowman and Murphy (2010)	WK 11 HW: Burning questions for biodiversity and landscape management
11	Thurs, Mar 24	Discussion: Guest speaker: Greg Norwood, Michigan DNR		
12	Tues, Mar 29	Lecture: Conservation planning and priorities part 1: protected areas	Jenkins et al. (2015)	WK 12 HW: A walk in the parks
12	Thurs, Mar 31	Discussion: Bringing in the reserves, project work time		Conservation Solutions Project 2-page outline due Fri Apr 1 by 11:59pm
13	Tues, Apr 5	Lecture: Conservation planning and priorities part 2: conservation approaches	Shen et al. (2020)	WK 13 HW: Flagship and umbrella species
13	Thurs, Apr 7	Discussion: Lions, tigers and things to bear in mind		
14	Tues, Apr 12	Lecture: Restoring lost ecosystems and species part 1: Ex situ conservation and reintroductions	The Sixth Extinction: p217-235 ("The rhino gets an ultrasound"), Ditmer et al. (2022)	WK 14 HW: The mega-challenge of megafauna conservation
14	Thurs, Apr 14	Discussion: Under what circumstances are captive breeding and reintroductions good ideas?		
15	Tues, Apr 19	Lecture: Restoring lost ecosystems and species part 2: rewilding and de-extinction	McCauley et al. (2017)	WK 15 HW: De-extinction bracket
15	Thurs, Apr 21	Discussion: De-extinction candidates: what are our de-extinction priorities?		

16	Tues, Apr 26	Lecture: Conservation what now? + final review	None	WK 16 HW: None
16	Thurs, Apr 28	Discussion: Conservation: Mission critical (any extra time will be used for final review)		Conservation Solutions Project 5-page final paper due Fri Apr 29 by 11:59pm
Final	Tues, May 3, 7:45-9:45am	Final exam (online)		