

BIOL 7010 Special Topics in Ecology and Evolution, Spring 2019
Theme: **"Biodiversity and Extinction in the Anthropocene"**

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Wed 5-6:50 pm, 1202 BSC
Offc Hrs 2-2:50 M, 11-11:50 T; other
times by appt)

Schedule by Week:

- 1 Introduction by Dr. Bergstrom
- 2 Discussion of readings in folder: "Overview of Anthropocene"¹
- 3 Discussion of readings in folder: "Values of Biodiversity" (+Definitions due)
- 4 Discussion of readings in folder: "Causes of Evolution and Speciation"
- 5 Discussion of readings in folder: "Extinction-prone Species"
- 6 Quiz 1, and first group of 15-min presentations
- 7 Discussion of readings in folder: "Causes of Biodiversity Loss I"
- 8 Discussion of readings in folder: "Causes of Biodiversity Loss II"
- 9 Discussion of readings in folder: "Biodiversity Hotspots (+ Coldspots?)"
- 10 Discussion of readings in folder: "Human-managed vs. 'Wild' Ecosystems"
- 11 Quiz 2, and second group of 15-min presentations
- 12 Discussion of readings in folder: "Ecosystem Restoration"
- 13 Discussion of readings in folder: "Invasives, 'Good' Species vs. 'Bad'"
- 14 Discussion of readings in folder: "Nature Reserves, Rewilding, Assisted Colonization"
- 15 Third group of 15-min presentations; Synthesis (all)

*Papers due Mon., May 6

¹You will find readings arranged by folder under the "Public" folder in the V:\ drive for this course

Points and Grading:

Definitions-	30
2 Quizzes @ 50	100
Class Discussion	50
Discussion leader	25
Presentation	35
Paper	50

TOTAL 290

Lowest A/B/C = 260/230/200

Students will read all papers and be prepared (with facts from the readings) to discuss these at each class meeting for which the set of papers is scheduled. Before the end of the third week, each student will choose a final paper topic, in consultation with instructor, and will present a brief lecture on it earlier in the semester (which must include reference to several papers NOT assigned as class reading, but may also include some assigned papers). S/he will then more fully develop this theme into a paper due the last class day. In addition, each student will be assigned as a discussion leader for one class meeting (excluding the first few weeks). There will be two short "open-notes" exams (or long quizzes!) covering previous class discussion, and a final synthesis, the exact nature of which is TBD.