**BIOL 4020/6020 Special Topics in Conservation Biology: "Endangered Species Conservation"**

Spring 2019, Dr. Brad Bergstrom, bergstrm@valdosta.edu

Lecture 3:30-4:20 MW in BSC 1024, Recitation 2:00-3:50 T BSC 3018

Office Hrs 2-2:50 M, 11-11:50 T; other times by appt., BSC 1107, 333-5770

Purpose and Goals: Biology majors who have completed Genetics, .5 (b)-0.6 (r)-7.7 (i)-1 (her)-1.7 ( b)-0.6 (o)--7 (u)-0h6 ( )

https://ebookcentral.proquest.com/lib/valdosta/bookshelf.action?folderId=1810845&folderOption=BOOKSHELF_FOLDER Please register and set up your own bookshelf.

Software: Lacy, R.C., and J.P. Pollak. 2014. Vortex: A stochastic simulation of the extinction process. Version 10.0. Chicago Zoological Society, Brookfield, Illinois, USA. Download Vortex 10.3, plus lite model "Eddy", plus users' manual (free) at: http://vortex10.org/Vortex10.aspx

| Tentative Weekly Lecture Topics | Chapters in C&F (Chapters in R&M) [Chapters in Caro] {Chapters in McD&W}[1] |
|---|---|
| 1. Domain, history of ConsBiol; types, values of biodiversity; ecosystem services | 1,6 (2,8) |
| 2. Extinction history and risks; causes of endangerment | 2 (3) |
| 3. Habitat loss and fragmentation | 4 |
| 4. Endemism; biodiversity hotspots; keystone, umbrella, and indicator species | (6) [4,6] |
| *5. Conservation Genetics (homework) | 3,5 |
| 6. Landscape Ecology and Metapopulation dynamics | 4 |
| 7. Population viability analysis (homework) | 2 (6) |
| 8. Legislation, Policy and the Endangered Species Act | Readings #7 |
| 9. Taxonomy and the ESA | 7 |
| *10. Trophic Cascades and Ecosystem Restoration | 14,16 [5] |
| 11. Conservation Planning, Management and Species Restoration | (7,8,12) |
| 12. Conservation under a changing climate | 10,13 |

2. Attendance at all recitation sessions is mandatory; you will be allowed to miss only one before points are deducted from your course score, and only one (lowest) quiz grade will be dropped (if you miss, that will be your one drop grade).

3. If you should have any kind of question, problem, comment, complaint, crisis, etc., involving this course, I'm the appropriate person for you to talk to. Please come by and see me about it immediately; that's what I'm here for. Feel free to stop by anytime (but try office hours first).

4.