

Instructors

Dale Kiefer <kiefer@usc.edu>

Office: AHF M235

Office hours: Tu 11-12:00 Th 11-12:30

Office hours: Tu 1:2:00 Th 1:2:00 (Moffett)

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Office: AHF 204

Office hours: Tu 1:00-2:00 Th 1:00-2:00 (Moffett)

Lectures SAL 102, Tues,Thur 9:30-10:50

BISC 102 - Fall 2015

TAs Yubin Raut yubinrau@usc.edu

Eric Kleinsasser eakleinsasser@gmail.com

Texts Jared Diamond "Collapse"

Simbio pkg. comprising Simutext Chapters and Tutorials

| DATE | LECTURE | LECTURER | READING | LAB* |
|--------|-----------------------------------|----------|-------------------------------|---|
| 25-Aug | Introduction Anthropogenic Planet | Kiefer | Stars & Beetle, Lucretius | No labs first week |
| 27-Aug | Lucretius | Kiefer | | |
| 1-Sep | Population Dynamics | Kiefer | ST Pop. Growth: 1&2 | My footprint.org |
| 3-Sep | Human Population | Kiefer | | |
| 8-Sep | Human Evolution | Kiefer | ST Pop. Growth: 3 | Tut: Understanding Population Growth Models |
| 10-Sep | Environment & Politics | Kiefer | Handout: News Articles | |
| 15-Sep | Nutrient Cycles | Moffett | ST Nutrient Cycling 1 | Tut: Isle Royale |
| 17-Sep | Collapse1 | Moffett | Collapse Preface through Ch 8 | |
| 22-Sep | Collapse 2 Chaco and the Maya | Moffett | | ST: Nutrient Cycling |
| 24-Sep | Midterm 1 | Kiefer | | |
| 29-Sep | Ecosystem Structure | Moffett | ST Ecosystem Ecology1 | Page Museum |
| 1-Oct | Climate Change 1 | Moffett | ST Climate Change 1, 2 | |
| 6-Oct | Climate Change 2 | Moffett | ST Climate change 3,4 | ST Climate Change |
| 8-Oct | Water | Moffett | | |
| 13-Oct | Ecosystem Structure & Agriculture | Moffett | ST Ecosystem Ecology 2,3 | STClimate Change |
| 15-Oct | Race to Save the Planet | Kiefer | | |
| 20-Oct | Collapse 3 Japan and Rwanda | Moffett | Collapse Ch 9-10 | Presentation of Class Papers |
| 22-Oct | Collapse 4 China - Lurching Giant | Moffett | Collapse Chap 12 | |
| 27-Oct | Water in California | Moffett | online content about drought | Hyperion Treatment Plant |
| 29-Oct | Pollution | Moffett | | |
| 3-Nov | Midterm 2 | Moffett | | Presentation of Class Papers |
| 5-Nov | Replicators & Inheritance | Kiefer | ST Evolution Section 1, 2 | |
| 10-Nov | Darwinian Evolution | Kiefer | ST Biogeography | Tut: Finches & Evolution (WB) |
| 12-Nov | Population Genetics | Kiefer | Selfish Gene 1-3 Handout | |
| 17-Nov | The Selfish Gene 1 | Kiefer | ST Evolution Section 2, 4 | Tut: Darwinian Snails |
| 19-Nov | The Selfish Gene 2 | Kiefer | | |
| 24-Nov | Collapse the Future | Moffett | Collapse Chap 14-16 | Tut: Mendelian Pigs |
| 26-Nov | Thanksgiving | | | |
| 1-Dec | Evolutionary Stable Strategies | Kiefer | Selfish Gene 9 Handout | Tut: Experimenting with Snails |
| 3-Dec | Co-Operation in a Crowded Plant | Kiefer | | |
| 10-Dec | Final Exam 11-1 SAL 101 | Kiefer | | |

**Grading (610 total points): 3 Midterms - 100
each, 5 pop quizzes- 15 each for 4, lab
participation-65, lab assignments-15 each, final
paper/presentation 50**