

LBST 487: Senior Seminar on Evolution & Creation

SPRING 2005 SCHEDULE

http://nsmserver2.fullerton.edu/departments/chemistry/evolution_creation/web/

1. MON Jan 31

Introduction

WED Feb 2

What Are the Issues?

Futuyma, Chapter 1; Sarfati2, introduction
Excerpts from PBS documentary "In The Beginning"

2. MON Feb 7

What is Science?

Futuyma, Chapter 9; Sarfati2, Chapter 1

Website 3.1a: "Science as Falsification", by Karl Popper

website 3.2a: a short discussion of Thomas Kuhn by Frank Pahares

<http://www.emory.edu/EDUCATION/mfp/Kuhnsnap.html>

website 3.6, sec. 7: "Does science have to be 'naturalistic'?", by John Wilkins

WED Feb 9

Science and Religion

Miller, Chapter 1, pp. 1-3 & 10-17; Sarfati2, Chapter 1

Xeroxed excerpt from "Theology and Science: Where Are We?" by Ted Peters

website 2.11a: "Are Science and Religion at War?" by Deborah and Loren Haarsma

<http://www.calvin.edu/~lhaarsma/week2.html>

website 3.6, sec 9: "Is evolution a metaphysical system akin to a religion?", by John Wilkins

<http://www.talkorigins.org/faqs/evolphil/metaphysics.html>

3. MON Feb 14

Discussion of *Genesis*, Chapters 1-2 and 7-8

Bring a Bible to class; read *Genesis*, Chapters 1-2 and 7-8

Miller, pp. 255-259 & 274-275; Futuyma, pp. 10-12; Sarfati2, pp. 93-94.

[In class we'll watch excerpts from the A&E Video: "Who Wrote the Bible?" & PBS's "In the Beginning"]

websites 4.2a & 4.2b on the **documentary hypothesis**

These pages also link to the Flood account:

<http://www-relg-studies.scu.edu/netcours/hb/dh/flood.htm>

<http://ccat.sas.upenn.edu/rs/2/Judaism/jepd.html>

website 2.11c: "If Science is Right, is Genesis Wrong?" by Deborah and Loren Haarsma

<http://www.calvin.edu/~lhaarsma/week5.html>

website 4.4b: DEATH BEFORE SIN? by James S. Stambaugh of the Institute for Creation Research

<http://www.icr.org/pubs/imp/imp-191.htm>

website 4.4c "Theological Analysis of Selected Recent Creationist Assertions Concerning the Occurrence of Death before Sin", by Gary Emberger.

WED Feb 16

[Essay # 1 Due]

Modern Evolutionary Theory and Common Misunderstandings

Futuyma, Chapter 2; Miller, pp. 6-10

4. MON Feb 21 Holiday

WED Feb 23

Evolution as Fact and Theory

Futuyma, pp. 170-172, Chapter 11 & p. 277; Sarfati2, pp. 51-56.

website 6.1a : Stephen J. Gould, "Evolution as Fact and Theory"
website 6.2: "Data, Theory, and Evolutionary Phenomena" by Jim Hofmann.

5. MON Feb 28
WED MAR 2

Review for First Midterm Exam
First Midterm Exam

6. MON Mar 7 **Radiometric Dating and The Age of the Earth**
 Kenneth Miller pp. 63-80

website 23.9a: "Radiometric Dating: A Christian Perspective", by Roger C. Wiens

WED Mar 9

The Fossil Record & Punctuated Equilibrium

Futuyma Chapter 4 & pp. 258-263;

Kenneth Miller pp. 31-40; 57-63; 81-100; 111-128; Sarfati2, Chapter 8

website 10.1d: Don Lindsay's illustrations of smooth speciation processes

http://www.cs.colorado.edu/~lindsay/creation/fossil_series.html

website 10.1dc: "Microfossil Stratigraphy Presents Problems for the Flood" by Glenn Morton

<http://www.glenn.morton.btinternet.co.uk/micro.htm>

[We'll watch an excerpt from the September 2001 PBS broadcast: "Great Transformations"]

7. MON Mar 14

Keith Miller & the Fossil Record

For general information on Keith Miller, see **Website 27.2e**:

<http://www-personal.ksu.edu/~kbmill/index.html>

Keith Miller, "Common Descent, Transitional Forms, and the Fossil Record", Chapter 8, pages 152-181, from *Perspectives on an Evolving Creation*, edited by Keith Miller (Eerdmans, 2003) [xerox HANDOUT]

For further discussion of *Archaeopteryx* and the origin of birds, see:

Sarfati2, pp. 129-132; Futuyma, pp. 76-77

website 10.3b: "All About Archaeopteryx" <http://www.talkorigins.org/faqs/archaeopteryx/info.html>

For further discussion of whale fossils, see **website 10.7**, especially **10.7a** and **10.7d**.

For further discussion of amphibian fossils, see **website 10.4**.

WED Mar 16 Natural Selection, Adaptation and the Origin of Species

Futuyma, Chapters 6 & 8 & pp. 267-271; Sarfati2, Chapter 4

Natural Selection and the Peppered Moth

website 8.3c: a critique of textbook presentations of peppered moths by Jonathan Wells

http://www.arn.org/docs/wells/jw_pepmothshort.htm

website 8.3e: Kenneth Miller's comments on how he presents peppered moths in his textbooks

<http://www.millerandlevine.com/km/evol/Moths/moths.html>

8. MON Mar 21

**[Essay #2 on the fossil record due]
Mutation**

Futuyma, Chapter 7; Miller, pp. 103-111; Sarfati2, Chapter 5

WED Mar 23 The Molecular Evidence for Common Descent

Futuyma, pp. 103-105, 206, & 252-258; Sarfati2, Chapter 6

website 13.1b: Wesley R. Elsberry: "Sequences and Common Descent"

<http://www.rtis.com/nat/user/elsberry/evobio/evc/argresp/sequence.html>

website 13.1k: discussion of Sarfati's claim that "Human lysozyme is closer to chicken lysozyme than to that of any other mammal", *Refuting Evolution*, p. 83.

March 28 to April 3 Spring Break

9. MON Apr 4

Continued discussion of molecular evidence

WED Apr 6

Michael Behe and Darwin's Black Box and Review

Miller, Chapter 5; Sarfati2, Chapter 10, video excerpts from Miller vs. Behe debate

website 15.5a: Behe's "Molecular Machines: Experimental Support for the Design Inference"

website 15.5v: "A Classification of Possible Routes of Darwinian Evolution", by Thornhill and Ussery

10. MON Apr 11

Second Midterm Exam

WED Apr 13 The Argument from Imperfection and the Argument from Design

Futuyma, pp. 197-201; Kenneth Miller, pp. 134-137; Sarfati2, Chapter 7.

website 12.1a: "The Panda's Thumb", by Paul & Susan Morris

<http://www.athro.com/evo/pthumb.html>

website 20.3c: "The Amazing Bombardier Beetle!" posted by Answers in Genesis

http://www.answersingenesis.org/home/area/magazines/docs/v12n1_beetle.asp

website 20.3a: "Bombardier Beetles and the Argument of Design" by Mark Isaak

11. MON Apr 18

Keith Miller: Theological Implications of an Evolving Creation

Video excerpt: "What About God?"

website 27.2e Keith Miller, "Theological Implications of an Evolving Creation", a condensation from *Perspectives on Science and Christian Faith* 45: 150-160 (1993).

Sarfati2, Chapter 2, especially pp. 42-49. [Sarfati means Keith Miller on page 46, not Kenneth Miller.]

Keith Miller: "An Evolving Creation: Oxymoron or Fruitful Insight?" (xerox of Chapter One from *Perspectives on an Evolving Creation*)

WED Apr 20

Howard Van Till & Terry Gray

Howard van Till: **Website 27.2ac:** a critique of Van Till by [John Mark Reynolds](#).

Website 27.2ad Van Till's response to Wells and Reynolds: "Basil and Augustine Revisited: the Survival of Functional Integrity".

Terry Gray: **website 27.2b** [Evolution Controversy in the OPC](#) : click on "appeal" or go directly to:

http://www.asa3.org/gray/evolution_trial/evolution_appeal.html

12. MON Apr 25

The Arkansas and Louisiana Balanced Treatment Bills

Futuyma, pp. 249-252

website 19.2ab: Arkansas Bill 590 and Judge William R. Overton's 1982 ruling on the Arkansas "Balanced Treatment" Bill.

WED Apr 27 Guest Discussion with Curtis Holtzen from Hope International University

website 2.11d: "Can Creation and Evolution Both be Right?" by Deborah and Loren Haarsma

website 2.11e: "If Evolution is Messy, Can Creation be Good?" by Deborah and Loren Haarsma
13. MON May 2 Guest Presentation by Keith Wanser of the CSUF Physics Department and the Creation Research Society
websites 23.2a & 23.2b

WED May 4

[Author Choice for Final Essay Due]

Continued Discussion of Young Earth Creationism

Website 25.3b John Woodmorappe: "Resource for Answering the Critics of Noah's Ark".

Website 25.3c Woodmorappe's 1993 book, *Studies in Flood Geology*, initiated a lengthy debate with Steven Schimrich .

Website 25.3d Woodmorappe's 1996 book is *Noah's Ark: A Feasibility Study* with a review by a former young-earth creationist, Glenn Morton , and a response from Woodmorappe.

Website 25.6b "Problems with a Global Flood" by Mark Isaak.

14. MON May 9

Third Short Essay Due

The Intelligent Design Movement

Miller, pp. 134-139

website 20.1bb: "Frequently Asked Questions about Intelligent Design" by Mark Hartwig.

website 20.1k: "Getting God a Pass Science, Theology and the Consideration of Intelligent Design" by John Mark Reynolds.

website 20.2h: "The Wedge at Work: How Intelligent Design Creationism Is Wedging Its Way into the Cultural and Academic Mainstream", by Barbara Forrest.

website 20.2ga: "THE DESIGN REVOLUTION? How William Dembski Is Dodging Questions About Intelligent Design", by Mark Perakh.

website 20.2gb: "THE DESIGNER-OF-THE-GAPS REVISITED A critique of William Dembski's article "Irreducible Complexity Revisited", by Richard Wein.

WED May 11

Draft of final long essay due

Human Evolution and the Human Genome Project

Futuyma, Chapter 5 & 263-267; Sarfati2, Chapter 12

Excerpt from the NOVA video "The Story of Lucy"

website 30.2a: "Comparison of the Human and Great Ape Chromosomes as Evidence for Common Ancestry", by Robert Williams.

website 30.2b: "An Inversion Between Man and Chimpanzee Chromosomes", by Don Lindsay .

website 30.9: information on Lucy and other hominid fossils by the Institute of Human Origins

website 30.10: "Was Lucy An Ape-man?" by John Morris of The Institute for Creation Research

website 30.11: "Lucy's Knee Joint" by Jim Lippard on the Talk.Origins Archive

website 30.19: a discussion of how young-earth creationists classify "humans" and "apes"

15. MON May 16

Catholic Theistic Evolution

Kenneth Miller, Chapter 8; Sarfati2, Chapter 2

website 27.1f: Pope John Paul II's 1996 "Truth Cannot Contradict Truth"

Cal Thomas's "Monkey Business" (Class Handout)

WED May 18 Concluding Discussion of Kenneth Miller
Kenneth Miller, Chapter 9: "Finding Darwin's God"

Monday May 23

2:30-4:20 OM

FINAL EXAM
LAST ESSAY DUE