Dr. Frank Deis, deis@rci.rutgers.edu, 445-2814, Nelson A-311 office hours Tue 12-2

BOOKS:  
Deep-Ocean Journeys, by Cindy Lee Van Dover  
Snowball Earth, by Gabrielle Walker  
Ishmael, by Daniel Quinn  
Wonderful Life, by Stephen Jay Gould  
Time, Love, Memory, by Jonathan Weiner

Partial syllabus subject to change – also handouts will be assigned as reading.  
Class meets Tue-Thu 5th period, 2:50 to 4:10 PM, ARC 105.

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van Dover paper, NJ Geology map |
| 20 | **Origin of Life** video – Wächterhäuser cartoon, Scalding Steps |
| 25 | *Deep-Ocean, 89-172. Discuss reading.  
Intro paper due. |
| Feb 1 | Discuss **Deep-Ocean**, films, etc.  
*Snowball Earth* 1-128  
Second paper, "Advocacy" assigned, due Feb. 22  
**Cambrian Fossils** |
| 3 | **Evolution, part I – Darwin's Dangerous Idea**  
**Quiz**, geology periods, map.  
*Ordovician/Silurian fossils* |
| 8 | *Snowball Earth* 129-248  
**Matt(1), Kasey(2)** |
| 10 | **Dr. Bonner and Slime Molds** – Video, Discussion |
| 15 | Individual Conferences.  
*Gould* 1-78, Careful reading assignment |
| 17 | **Planet of Life – Ancient Oceans**  
Assign "Spandrels" and responses  
Advocacy Paper due.  
*Devonian Fossils* |
| 22 | Careful Reading due – discuss Gould and Snowball.  
*Gould* II 79-164  
**Dave(1), Stephen(2)** |
| 24 | **What Darwin Never Saw** – Galapagos Finches |
| Mar 1 | Discuss **Spandrels** --*Gould* III 164-208, 227-239, 292-323  
**Kasey(1), Jerry(2)**  
*Carboniferous fossils* |
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<td>Mar  3</td>
<td><strong>The First Hunters</strong></td>
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| 8    | Discuss Gould II and III. Contingency. Stephen(1), Dale(2) *Permian Fossils*  
  *Ishmael I*, 1-91.  
  Assign *Spandrel* paper (3 pages). |
| Mar  10 | **Incredible Suckers – Arthropods** |
| Mar  15 | *Spring Break, no class* |
| 22   | Discuss *Ishmael* (I). Assign *Ishmael* (II) 95-184  
  Jerry(1), Kate(2) *Cretaceous Fossils* |
| 24   | **Hopeful Monsters** – handout and video |
| 29   | *Spandrel* papers due. Discuss *Ishmael* (II), assign *Ishmael* (III) to end  
  Dale(1), Prashant(2) *Clovis points* |
| 31   | **The Missing Link** |
| Apr  5 | Discuss *Ishmael*. Assign *Weiner* I, 1-70.  
  Kate(1), Marc(2)  
  Assign another paper, (Ishmael and Human Nature?) |
| 7    | **Making of Walking with Dinosaurs** (DVD) |
| 12   | Discuss *Weiner* I, assign *Weiner* II, 75-166  
  Prashant(1), Matt(2) |
| 14   | **Evolution, part 3**  
  Extinction! ; (Walking with Dinosaurs) |
| 19   | Discuss *Weiner* II, assign *Weiner* III, 167-257 (end)  
  Marc(1), Dave(2) |
| 21   | **Evolution, part 5**  
  Why Sex? |
| 26   | Discuss *Weiner* III |
| 28   | Final Discussion. Last paper due. |