H90: Idiom and Practice of Modern Science - Biology

Professor: Michael R. Rose
Contact Information etc

• M. Rose: 497 Steinhaus Hall, 824-8121, mrrrose@uci.edu; Office hours: 320-4 PM Tuesdays and Thursdays in office
Class Theme

First: how biologists have
   – Realized that there is a particular problem
   – Found their way to a candidate solution
   – Presented their solution, and campaigned for it

Then: the impact of such solutions on the part of biology involved, and beyond

Done with a view to: realism about what actually goes on, and some scientific content
Format and Testing

• Most days start with a quiz on the previous day: five content questions
• Top 14 results yield a total of 70% of your grade, class 3 has a practice quiz. Total of 17 quizzes that can count.
Exit Questions

- Written on a 3 x 5 Index Card
- Include your full name and student ID Number
- This needs to be a thoughtful and substantive question on the material of that day’s class
- Graded out of two
- Top 15 grades count
- Total of 30% of the total grade
Syllabus

1. One Strange Passion
2. Aristotle Versus the Centaurs
3. God’s Other Work
4. The First Great Evolutionist
5. Captain’s Gentleman
6. A Great Also-Ran
7. The Cost of Humility
8. Biology’s Newton
• 9. Mad Bomber
• 10. Two Chatterboxes
• 11. Fatal Equation
• 12. The Sewall Wright Effect
• 13. Jumping Genes
• 14. Long Winters
• 15. Does Death Become Evolution?
• 16. Genomic Explosion
• 17. After Biology’s Big Bang
• 18. Is Biology Science?
• 19. Life Sciencing