

# H90: Idiom and Practice of Modern Science - Biology

Professor: Michael R. Rose

# Contact Information etc

- M. Rose: 497 Steinhaus Hall, 824-8121, [mrrose@uci.edu](mailto:mrrose@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