

History 233 History of Science in the Modern Era

TTh 1:00-2:20

Room: Sewall 307

Prof. Cyrus Mody

Humanities 309

x2553

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Office hours: by appointment

Book available at the bookstore:

Peter J. Bowler and Iwan Rhys Morus, *Making Modern Science: A Historical Survey* (University of Chicago Press), ISBN: 978-0226068619

Grading:	Participation:	20%
	Quizzes	20%
	Mid-term 1:	20%
	Mid-term 2:	20%
	Final:	20%

Participation: Since this will be a small class and we will cover a lot of ground strewn with complex issues, it will be important for me to see that you are keeping up. Thus, your active participation in the discussions will be crucial. I will keep a tally for participation. If you attend class, contribute to discussion, and demonstrate a working knowledge of the readings you will get full participation credit.

Quizzes: There will be an unannounced quiz every few lectures, primarily covering the readings. Your average grade over all the quizzes will count for 20% of the course grade.

Midterms: There will be two midterm exams in class, on October 15th and November 19th. They will count for 20% of your grade each. Questions on the midterms will be a mix of identification, short answer, and essay.

Final: There will be a take-home final exam. This will be administered through Owl-Space, due by the end of the exam period. Since it is a take-home, you will be allowed to use the course readings and any notes you have taken.

Note: any student with a documented disability needing academic adjustment or accommodations is requested to speak with me during the first two weeks of class. All discussions will remain confidential. Students with disabilities should also contact Disabled Student Services in the Ley Student Center.

Schedule:

Readings are to be read for the lecture under which they are listed. Be prepared to discuss them on that day.

Tuesday, August 25: Introduction to class – ancient Greek science

Thursday, August 27: Hellenistic science and the medieval Muslim empires
Bowler and Morus 1-20

Tuesday, September 1: From the Thomistic synthesis to the Scientific Renaissance
Bowler and Morus 341-366

Thursday, September 3: Kepler and Galileo
Bowler and Morus 23-33

Tuesday, September 8: Voyages of collection and discovery (guest lecture by Alida Metcalf)

Thursday, September 10: Newton (guest lecture by John Zammito)
Bowler and Morus 33-53

Tuesday, September 15: Alchemy
Bowler and Morus 55-61

Thursday, September 17: The Royal Society
Bowler and Morus 319-329

Tuesday, September 22: Salons and academies
Bowler and Morus 487-509

Thursday, September 24: Provincial Britain and the Industrial Revolution
Bowler and Morus 103-127

Tuesday, September 29: The French Revolution
Bowler and Morus 61-78

Thursday, October 1: Romanticism
Bowler and Morus 79-102

Tuesday, October 6: Natural theology and Darwin
Bowler and Morus 129-164

Thursday, October 8: The human sciences
Bowler and Morus 299-316

Tuesday, October 15: Midterm 1

Tuesday, October 20: Statistics, steam engines, and telegraph cables
Bowler and Morus 391-414

Thursday, October 22: Nationalism and early eugenics
Bowler and Morus 189-212

Tuesday, October 27: Pasteur
Bowler and Morus 165-188

Thursday, October 29: Education and professionalization
Bowler and Morus 329-340

Tuesday, November 3: Corporate research
Bowler and Morus 367-390

Thursday, November 5: World War One, relativity, and relativism
Bowler and Morus 253-276

Tuesday, November 10: Late-colonial science
Bowler and Morus 439-461

Thursday, November 12: Fascist science
Bowler and Morus 415-438

Tuesday, November 17: World War Two
Bowler and Morus 463-486

Thursday, November 19: Midterm 2

Tuesday, November 24: The Cold War and Big Science
Bowler and Morus 237-252

Tuesday, December 1: Science in the '70s
Bowler and Morus 213-235

Thursday, December 3 The end of the Cold War social contract with science
Bowler and Morus 277-297