This course will investigate various treatments of science by literature according to both traditional and contemporary (postmodern) theories within the philosophy of science. According to Jean Francois Lyotard, scientific knowledge has traditionally been legitimated for being either emancipatory, or according to how it assists in the realization of a unified scientific whole. Texts by Ibsen and Glaspell provide an opportunity for investigating the poignancy of the first of these legitimation narratives, while texts by Ursula LeGuin and John Banville will help us evaluate the second legitimation narrative. Finally, we will conclude the semester by questioning whether scientific knowledge is, as Foucault suggests, "linked in a circular relation with systems of power which produce and sustain it, and to effects of power which it induces and which extend it. A regime of truth;" relevant texts to this discussion are Thomas Pynchon's *The Crying of Lot 49* and Darren Aronofsky's *Pi*.

1. Core Texts:

- o John Banville, Kepler
- Friedrich Durrenmatt, The Physicists
- o Frayn, Michael. Copenhagen
- o Susan Glaspell, *The Verge* (available on edveNTUre)
- o Henrik Ibsen, *An Enemy of the People* (available on edveNTUre)
- o Lawerence, Jerome and Robert E. Lee. Inherit the Wind
- o LeGuin, Ursula. The Dispossessed.
- o Pynchon, Thomas. The Crying of Lot 49
- o Sobel, Dava. Longitude. The True Story of the Lone Genius Who Solved the Greatest Scientific Problem of his Time
- o Shelagh Stephenson, An Experiment with an Air Pump
- o All other secondary readings are available on edveNTUre

2. Films:

(held in the library and to be screened in class)

Pi, Darren Aronofsky

Method of Instruction

Lectures : 2 hours per week
Tutorials : 1 hour per week

Course Assessment

Continuous Assessment : 50 % Final Examination : 50 %

100%

Proposal for the short Essay: This 400 word proposal will make the case that the subject you are interested in is worthy of an essay. Those failing to turn this assignment in on time will lose a letter grade off their final essay.

Final Essay: This 2000 word essay (lower limit) must defend an original thesis about one of the works read in class – and do so by reflecting on secondary material about the play and/or the author of the play. You must use at least 3 secondary sources.

B. The Final Examination will consist of two essays worth equal points.

Warning Plagiarism will not be tolerated and will result in automatic failure of the course.

Lecturer	Office Room No.	DID	E-mail Address
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^{*} Course Co-ordinator

Proposed Lecture Schedule

Week No.	Topics	Readings
Week 1	Course Introduction	
Week 2	Science as Progress	Henrik Ibsen, <i>An Enemy of</i>
	Second us 110gress	the People; Leo Marx,
		"Does Improved
		Technology Mean
		Progress"
Week 3	Science and the Humanities	Susan Glaspell, <i>The Verge</i> ;
		C. P. Snow, "The Two
		Cultures"
Week 4	Science and Religion	Lawerence, Jerome and
		Robert E. Lee. Inherit the
		Wind
Week 5	Scientific Method	LeGuin, Ursula. <i>The</i>
l		Dispossessed; Popper,
		"Conjectural Knowledge"
Week 6	The Scientist as Heroic Figure	John Banville, Kepler;
		Thomas Kuhn, "The
		Function of Dogma"
Week7	Science and Historiography	John Banville, Kepler
		continued;
Week 8	Reces	ss

Week No.	Topics	Readings
Week 9	Research Paper interviews – no class	
Week 10	Science and Madness	Friedrich Durrenmatt, The
		Physicists Excerpt from
		The Postmodern
		Condition (Part 2)
Week 11	Science and Postmodern Literature	Pynchon, Thomas. <i>The</i>
VV CCR 11		Crying of Lot 49 Lyotard,
Week 12	Science and Power	Pi, Darren Aronofsky
		Foucault, From "Truth
		and Power"
Week 13	Postmodern Science and Literature	Frayn, Michael,
		Copenhagen; Gross and
		Levitt, "The Academic
		Left and Science"
Week 14	Science and Ethics	Shelagh Stephenson, An
		Experiment with an Air
		Pump