

**THE UNIVERSITY OF WESTERN ONTARIO
DEPARTMENT OF PHILOSOPHY
Undergraduate Course Outline 2011-2012**

**Philosophy 2300F: Philosophy of Science
Previously Philosophy 226**

**Fall Term 2011
MWF 2:30–3:30
Talbot College 205**

**Instructor: Wayne C. Myrvold
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Office: Stevenson Hall 4143
Office Hours: MW 3:30–4:30, or by appointment**

DESCRIPTION

Philosophy of science addresses questions such as: What is the difference between science and non-science? What sort of knowledge can we expect from science? Does it give us objective knowledge of the world? If so, can this knowledge extend beyond knowledge of what is directly observable? What is the proper role of science in society, and what are the ethical obligations of scientists?

We will address these questions in connection with two case studies of scientific revolution: and the Darwinian revolution in the 19th and 20th centuries, and the Copernican revolution at the birth of modern science. Both of these have implications for the relation between science and the wider culture. We will look at writings of the scientists involved, as well as major works by philosophers of science. The aim is for students to form their own thoughts on the questions to be addressed.

No prior background in science or philosophy is assumed.

Antirequisite: Philosophy 2030F/G (126F/G).

TEXTS

Selected readings, available on WebCT.

OBJECTIVES

The chief objective of this course is to introduce the students to key issues in philosophy of science. Students will be able to distinguish between scientific realism and various forms of anti-realism, to identify the strengths and weaknesses of the major approaches to scientific inference, and to apply these concepts to our two case studies, the Copernican revolution and the Darwinian revolution.

REQUIREMENTS

Attendance and active participation in class discussions; 3 short writing assignments; two tests; term paper.

Writing assignment 1 (3–5 pp), due Oct. 7	15%
Writing assignment 2 (3–5 pp), due Nov. 11	15%
Test 1 in class, Oct. 21	20%
Test 2 date TBA, during exam period	20%
Term paper (7–10 pp), due Dec. 7	<u>30%</u>
	100%

For written assignments, both hard copy and turnitin submission is required. Hard copy is to be handed in by 4:00 PM on the due date, and turnitin submission, by 11:59 PM. If you are unable to hand your assignment directly to the instructor, place it in the Philosophy Department drop-off box, which is on the first floor of Stevenson Hall. *Make sure that your name and the instructor's name are on your assignment.* Late assignments will be penalized 5% per day late.

In conformity with departmental policy all written assignments must be submitted to turnitin.com for plagiarism checking by the due date. Assignments not submitted to turnitin by the due date will be counted as late, and students will not receive credit for written assignments not submitted to turnitin.com.

No papers will be accepted after the last day of classes, Dec. 7, 2011.

AUDIT

Students wishing to audit the course should consult with the instructor prior to or during the first week of classes.

The **Department of Philosophy Policies** which govern the conduct, standards, and expectations for student participation in Philosophy courses is available in the Undergraduate section of the Department of Philosophy website at <http://uwo.ca/philosophy/undergraduate/proceduresappeals.html>. It is your responsibility to understand the policies set out by the Senate and the Department of Philosophy, and thus ignorance of these policies cannot be used as grounds of appeal.