

Liverpool John Moores University

Title: SCIENCE IN SOCIETY
Status: Definitive faculty appr change
Code: **6006PSSC** (104418)
Version Start Date: 01-08-2016

Owning School/Faculty: Education
Teaching School/Faculty: Education

Team	Leader
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Academic Level: FHEQ6 **Credit Value:** 24 **Total Delivered Hours:** 51

Total Learning Hours: 240 **Private Study:** 189

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	4
Seminar	24
Workshop	20

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1		50	
Exam	AS2		50	3

Aims

To develop an awareness of some of the current issues in science which are likely to have a major impact on society in the next twenty years and impact on the need to

improve public understanding of science issues. To consider approaches to teaching about 'how science works'

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate knowledge and understanding of a range of concepts relevant to selected current developments in science.
- 2 Apply this understanding in evaluating issues surrounding current developments in the sciences and assess future implications.
- 3 Critically assess and discuss the impact of political and socioeconomic factors together with the role of education and the media in shaping public attitudes towards science.
- 4 Demonstrate some independence in the ability to widen their understanding of the issues concerned for their own learning at degree level and in preparing learning experiences for children based on these issues.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

CW	3	4
EXAM	1	2

Outline Syllabus

Properties and effects of environmentally sensitive gases on global and local environments.

Identification and estimation of selected chemicals in freshwater and their effects.

Recycling processes in terms of social, environmental and economic impact.

Impact of education, organisations such as Greenpeace and the media on public understanding of science.

Energy resources - nuclear energy, non renewable energy and the environmental consequences - renewable sources and their viability.

Genetic engineering - environmental, economic and ethical issues.

Current issues in the public arena - e.g foot and mouth epidemic 2001

Learning Activities

Laboratory based workshops, lectures, seminars and internet based research

Notes

This module is designed to develop the participants' understanding and confidence

in some of the crucial issues in science, which are having a major impact on public understanding on a local and global scale.