

## Liverpool John Moores University

Title: SUBJECT PEDAGOGY IN APPLIED SCIENCE  
Status: Definitive  
Code: **7015PGASC** (104319)  
Version Start Date: 01-08-2016  
  
Owning School/Faculty: Education  
Teaching School/Faculty: Education

Team	Leader
Kenneth Clays	Y

**Academic Level:** FHEQ7  
**Credit Value:** 20  
**Total Delivered Hours:** 62  
**Total Learning Hours:** 200  
**Private Study:** 138

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	40
Off Site	6
Online	10
Seminar	4
Tutorial	2

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	AS1	(1,500 words equivalent)	30	
Essay	AS2	(3,500 words equivalent)	70	

### Aims

*To enable students to have a critical understanding of the nature of science and how it is interpreted through the 11-16 and/or 14-19 curriculum*

*To enable students to analyse how science is taught in the 11-16 and/or 14-19 sectors*

*To enable students to investigate the development of learners' understanding and barriers to learning in science*

*To enable students to critically evaluate strategies which promote learning in science*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Demonstrate systematic knowledge and understanding of fundamental concepts in Science as they relate to the 11-16 and 14-19 sectors
- 2 Critically analyse learners' conceptual understanding of science
- 3 interrogate research literature to provide a critique of pedagogy in science
- 4 articulate complex ideas using appropriate language and style

## **Learning Outcomes of Assessments**

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

CW	1		
CW	2	3	4

## **Outline Syllabus**

*Effective learning in science within the 14-19 sector*

*Issues in development of student learning in science*

*Approaches to pedagogy in science*

*Research on learning and teaching in science in the 14-19 sector*

*Strategies for investigating research literature*

*Carrying out small-scale investigations into learning*

## **Learning Activities**

Lectures, seminars, workshops and practical activities will cover the key knowledge and concepts in Science and its vocational derivatives. Group and individual tutorial will enable students to negotiate small-scale research activities or a review of subject-focused literature

## **Notes**

This module will allow students to engage in a critical evaluation of the nature of science and school science, and the research, which has been carried out relating to how children learn science. Students will then engage in a small-scale research project which will be informed by their evaluation and provide them with a valuable insight into teaching and learning. They will also explore the value of research, which involves a partnership between teachers and academics.

