

Liverpool John Moores University

Title: Learning and Teaching Science in the 21st Century
Status: Definitive
Code: **7028AEPMA** (119526)
Version Start Date: 01-08-2019
Owning School/Faculty: Education
Teaching School/Faculty: Education

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Academic Level: FHEQ7 **Credit Value:** 20 **Total Delivered Hours:** 22
Total Learning Hours: 200 **Private Study:** 178

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	22

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	essay		70	
Presentation	presentati		30	

Aims

To enable you to develop critical awareness and understanding of effective approaches to learning and teaching in science

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically reflect on how developments in learning and teaching have influenced your practice as a science teacher
- 2 Display knowledge and critical understanding of key theoretical frameworks and concepts in science learning and teaching
- 3 Critically analyse and synthesise research findings and other evidence to inform your practice in science education
- 4 Reflect on and evaluate the impact of your learning on professional practice, sharing knowledge in an appropriate way

Learning Outcomes of Assessments

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

essay	1	2	3
presentation	4		

Outline Syllabus

Reflection on the key experiences in your development as a teacher and how these have informed your personal philosophy of effective science teaching

What contributes to effective learning and teaching of science

Research on effective learning and teaching in science

Exploration of current issues in science teaching and learning and implications for pedagogy such as:

enquiry science

use of language in science learning

use of ICT

the STEM agenda

personalised learning and inclusion

vocational education

Learning Activities

Sessions will be participatory, including seminars, workshops, Blackboard -based resources and practical activities

Assessment will support students to examine critically issues in teaching and learning and the effect on their professional practice

Notes

Lectures

Blackboard

Practical Activities

Seminars and tutorials

