

## Liverpool John Moores University

Title: Pure Maths 2  
Status: Definitive  
Code: **3511IFESG** (124182)  
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering  
Teaching School/Faculty: Study Group

Team	Leader
Jack Mullett	Y

**Academic Level:** FHEQ3      **Credit Value:** 10      **Total Delivered Hours:** 39  
**Total Learning Hours:** 100      **Private Study:** 61

### Delivery Options

Course typically offered: Semester 2 and Summer

Component	Contact Hours
Lecture	21
Seminar	12
Workshop	6

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Test	AS1	A series of online VLE tests	100	

### Aims

*To provide students with an understanding of mathematics in preparation for progression to first degree programmes in Science and Engineering. To develop skill in mathematical applications, methods and techniques.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Use mathematical notation, terminology, conventions and units correctly.
- 2 Interpret in mathematical terms verbal, graphical and tabular information.
- 3 Recognise and select mathematical methods suitable for the solution of problems.

### **Learning Outcomes of Assessments**

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

online VLE tests	1	2	3
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### **Outline Syllabus**

- *Differential Calculus*
- *Integral Calculus*
- *Sequences and series*
- *Complex Numbers*
- *Numerical Methods*
- *Matrices*

### **Learning Activities**

A mix of lectures, seminars and workshops with in-class testing and homework to support independent learning. In each session the theory session is followed by a number of worked examples which are typical of, and lead to individual exercises for each unit. By listening to the theory and reading through the worked examples, the student should be able to make considerable progress with the exercise that follows.

### **Notes**

None