THE UNIVERSITY OF MANCHESTER
Programme Unit Specification

1. GENERAL INFORMATION

Title	Mathematical Techniques for Managers
Unit code	MATS-10372
Credit rating	10
Level	1 (Year-1)
Semester(s)	2
Pre-requisite units	None
Co-requisite units	None
School responsible	School of Materials (Textiles and Paper)
Member of staff responsible	Dr Huw Owens
Other staff involved	None

2. AIMS

- To introduce applied mathematical techniques to students without A-level mathematics.
- To give students the ability to implement basic quantitative approaches used in the management and marketing of textiles.

3. BRIEF DESCRIPTION OF THE UNIT

On completion of this module, students should:

- be able to demonstrate familiarity with the basic rules of algebraic manipulations, matrix methods and applications for differentiation and integration;
- have the ability to deal with unknown quantities;
- have the ability to estimate order quantities, production planning skills and market forecasting etc;
- have numerical skills transferable to any discipline.

4. INTENDED LEARNING OUTCOMES *(include module-specific and contribution to programme)*

Category of outcome	*Students should be able to:*
Knowledge and understanding	TA10
Intellectual skills	TB1, TB2
Practical skills	
Transferable skills and personal qualities	TD3, TD4

5. LEARNING AND TEACHING PROCESSES (*methods of delivery*)

Lectures:

- Graph theory
- Linear and quadratic equations
- Changes, Rates, Finance and Series
- Differentiation
- Optimisation in management
- Matrix methods in management

6. ASSESSMENT

Assessment task	Length	Weighting within unit (if relevant)
Unseen Examination Paper (3 Questions from 5)	2 hours	100%

Date of current version	3/2/2009