Course Specification

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Produced By:	Laura Clode
Status:	Validated

Core Information

Awarding Body / Institution:	University of Wolverhampton		
School / Institute:	School of Mathematics and Computer Science		
Course Code(s):	MM004P01UV MM004P31UV	Full-time Part-time	12 Months 2 Years
Course Title:	MSc Mathematics		
Hierarchy of Awards:	Master of Science Mathematics Postgraduate Diploma Mathematics Postgraduate Certificate Mathematics Postgraduate Certificate Mathematics University Statement of Credit University Statement of Credit		
Language of Study:	English		
Date of DAG approval:	01/Jun/2017		
Last Review:	2015/6		
Course Specification valid from:	2010/1		
Course Specification valid to:	2021/2		

Academic Staff

Course Leader:	Dr Nabeil Maflahi
Head of Department:	Mrs Ruth Fairclough

Course Information

Location of Delivery:	University of Wolverhampton
Category of Partnership:	Not delivered in partnership
Teaching Institution:	University of Wolverhampton
Open / Closed Course:	This course is open to all suitably qualified candidates.

Entry Requirements:

Entry requirements are subject to regular review. The entry requirements applicable to a particular academic year will be published on the University website (and externally as appropriate e.g. UCAS

For direct entry onto the Master's programme:

A lower second honours degree in mathematics, or equivalent, is required for direct entry onto the Master's programme.

or A Postgraduate Certificate in Mathematics or a related subject with a minimum of grade C in all modules.

For entry onto the Postgraduate Certificate programme
(Completion of which, with a minimum of grade C in all modules, will allow a student to progress to the Master's programme)

A pass at degree level.

Students are selected using application form and references in the first instance and may be invited for interview.

Students applying for individual modules will be required to demonstrate the ability to absorb technical concepts and detail, possibly by way of their previous industrial or commercial experience.

Minimum English competency is the standard MSc entry: IELTS 6.0 or equivalent

Distinctive Features of the Course:

The Mathematics department includes a team of researchers in the field of Statistical Cybermetrics, led by a professor who has been recognised as a leading international authority on the subject and who achieved a very high rating in the latest Research Assessment Exercise.

We pride ourselves on the academic support and guidance given by our friendly and approachable staff. Students have shown their appreciation for this by the exceptionally high ratings they have given us recently in the National Student Survey.

Educational Aims of the Course:

The course aims to develop a depth of knowledge across several specialised/applicable areas of Mathematics. You will deal with complexity, gaps and contradictions in the knowledge base of Mathematics. The course will enable you to independently synthesise information/ideas in chosen areas of Mathematics. You will develop the ability to autonomously evaluate/argue alternative approaches in several specialised/applied areas of Mathematics. If you wish to enter employment within the field of Mathematics then this course will help you by promoting a professional attitude to Mathematics. Even if your chosen career does not involve Mathematics, then this course will still enhance your career prospects and chances of success as Mathematicians are warmly welcomed in industry, business and commerce for their analytical ability and logical approach to unravelling complex issues.

Intakes:

September

Major Source of Funding:

Office for Students (OFS)

Tuition Fees:

Tuition fees are reviewed on an annual basis. The fees applicable to a particular academic year will be published on the University website.

Year	Status	Mode	Amount
2020/1	H	Full Time	£6400.00
2020/1	Overseas	Full Time	£13350.00
2020/1	H	Part Time	£3200.00

PSRB:

None

Course Structure:

January (Full-time)

Part time students study alongside full time students. However, they do not study more than 80 credits in each academic calendar year.

Year 1

Module	Title	Credits	Period	Type
7MM005	Advanced Topics in Mathematics	20	INYR	Core
7MM009	Statistics	20	INYR	Core
7MM010	Research Methods in Mathematics	20	INYR	Core
7MM011	Mathematics Dissertation	60	CRYRA	Core

7MM006	Financial Mathematics	20	INYR	Core
7MM007	Mathematical Modelling	20	INYR	Core
7MM008	Statistical Cybermetrics	20	INYR	Core

September (Full-time)

Part time students study alongside full time students. However, they do not study more than 80 credits in each academic calendar year.

Year 1

Module	Title	Credits	Period	Type
7MM006	Financial Mathematics	20	INYR	Core
7MM007	Mathematical Modelling	20	INYR	Core
7MM008	Statistical Cybermetrics	20	INYR	Core
7MM005	Advanced Topics in Mathematics	20	INYR	Core
7MM009	Statistics	20	INYR	Core
7MM010	Research Methods in Mathematics	20	INYR	Core
7MM011	Mathematics Dissertation	60	CRYRA	Core

Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, to create the best learning experience.

Learning, Teaching and Assessment

Academic Regulations Exemption:

None

Reference Points:

QAA descriptor for a Higher Education qualification at level 7: Master's Degree

QAA Subject Benchmark Statement for Maths

School of Technology E&D policy, 2010

Equality Act 2010

IMA Approval Guidelines.

Learning Outcomes:

Masters Course Learning Outcome 1 (MACLO1)

Demonstrate a full understanding, knowledge and experience of complex and specialised areas of mathematics; Select and apply appropriate techniques to the analysis, design and synthesis of solutions to problems which require mathematics for their resolution.

Masters Course Learning Outcome 2 (MACLO2)

Apply knowledge of mathematics with particular reference to its applications in other subject areas (e.g. mathematical education, analysis and modelling of business and finance, computing and scientific systems).

Masters Course Learning Outcome 3 (MACLO3)

Demonstrate originality in the application of knowledge, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in mathematics.

Masters Course Learning Outcome 4 (MACLO4)

Conduct research into current mathematical literature; review, analyse and evaluate findings in a professional manner.

Masters Course Learning Outcome 5 (MACLO5)

Deal with complex issues both systematically and creatively, making sound judgements in the absence of complete data, and communicating conclusions clearly to specialist and non-specialist audiences.

Overview of Assessment:

Module	Title	Course Learning Outcomes
7MM005	Advanced Topics in Mathematics	MACLO1, MACLO5
7MM006	Financial Mathematics	MACLO2, MACLO5
7MM007	Mathematical Modelling	MACLO2, MACLO3
7MM008	Statistical Cybermetrics	MACLO2, MACLO4, MACLO5
7MM009	Statistics	MACLO1, MACLO3
7MM010	Research Methods in Mathematics	MACLO3, MACLO4
7MM011	Mathematics Dissertation	MACLO1, MACLO3, MACLO4, MACLO5

Teaching, Learning and Assessment:

Work through technique-centred problems both with a pencil and paper and by computer software; presenting results orally.

Solve ill-defined or open-ended problems during workshop/tutorial sessions and in assessments.

Working through ill-defined or open-ended problems during workshop/tutorial sessions and in assessments.

Summarising ideas, methods and results from selected journal papers.

Deal with complex issues both systematically and creatively, making sound judgements in the absence of complete data, and communicate your conclusions clearly to specialist and non-specialist audiences.

Reflecting critically on the attempts at problem solving.

Applying a variety of techniques in a structured way to open-ended problems and to well-defined and ill-defined situations. Reflecting on the results of problem solving.

Assessment Methods:

At the University of Wolverhampton, a variety of modes of assessment will be used to support and test your learning and progress and to help you develop capabilities that are valued beyond your University studies and into your working life. Your course may include a variety of assessment activities:

Written examinations (including online examinations, open and closed book examinations and quizzes)
Coursework (for example, essays, reports, portfolios, project proposals and briefs, CVs, poster presentation)
Practical (for example, oral and video presentations, laboratory work, performances, practical skills assessment)

In the final year of your undergraduate degree, and at the end of your postgraduate degree, you are likely to be expected to write an extended piece of work or research, such as a dissertation or a practice-based piece of research.

Student Support:

University provided support:

As well as providing general counselling support the University Counselling Service provides short courses on topics such as "Self Confidence", "Stress Management and Relaxation" and "Life Skills".

They also provide study skills and academic support, providing short courses such as provide help in areas such as "Writing and Assignment Skills", "Exam Techniques", "Enhancing Professional Skills", "Personal Development Planning" and "Making Choices for the Future.

University Learning Centres provide general academic skills support to all students. You can make an appointment with a study skills advisor for advice on areas such as academic writing, assignment planning, exam preparation, and time management.

In addition, there is a regular timetable of drop-in and bookable workshops covering information and digital literacy skills, including academic referencing. School of Technology students are supported by a designated subject librarian who is available to support research and project work.

Course support:

At the start of your course you will be assigned a Personal Tutor who will guide you through the induction process and provide support and academic counselling throughout your course on an appointment basis. They should be able to offer you advice and guidance to help you liaise with other staff and support facilities in the School and University.

The Student Support Advisers (SSA) provides academic counselling and will be accessible throughout the week on a drop-in or appointment basis to discuss timetables, requests for extensions, requests for extenuating circumstances, general concerns about study and student life and general programme planning.

The SSA will act as a first point of contact in relation to leave of absence (including returning after leave), withdrawal, transferring to another course (internal and external) and changes to mode of attendance. Your Course Leader will be available thereafter for meetings by appointment to discuss leave of absence, withdrawal, transferring to another course (internal and external), changes to mode of attendance, returning after leave of absence and direct entrants.

Subject support:

Tutorials, workshops, seminars and meetings - provide the primary opportunities for students to interact with staff on topics relating to modules. All modules provide at least one of these forms of face-to-face support.

Formative feedback - tutors provide personalised written feedback on most summative assessments. The mechanism for feedback from purely formative tasks varies between assessments, but will always be provided in some form. Online formative tasks often provide feedback straight away. On occasions tutors may provide generalised verbal feedback to the whole class on points relating to an assessment

Assessment and subject-based surgeries provide additional student support for subjects that students often need extra help with. They are often concentrated around the times when assessments take place. Revision sessions are provided for many modules that have exam-like tests and enable you to interact with tutors to review parts of the course. Mock exams and tests may provide opportunities to experience an examination environment before the final summative test and give you feedback on your understanding.

International Students:

The International Centre will provide pre and post entry visa and immigration support and advice on and arrange for the necessary paperwork to be submitted to UKBA. They will also provide appropriate University Induction support on arrival and be a point of contact for international students throughout their stay here. A range of social and cultural activities arranged by the International Centre will also promote the integration of international students into the whole of the University's learning community. English language support is also available through the international language centre in the University.

Employability in the Curriculum:

Students will have developed advanced technical skills within the field of Mathematics together with an ability to critically analyse and evaluate complex problems. These skills should equip students to enter careers in Mathematics in a variety of roles.

There is a shortage of Mathematics-related skills both nationally and regionally, and in particular there is a recognised severe shortage of qualified Mathematics teachers. Hence the Mathematics qualification that this programme offers will make its graduates highly employable. Excellent career opportunities will also be open in operational research, statistics, information analysis, financial advising, actuarial work and accountancy.