MSc in Investment Management (IM)
For students entering in 2006

Awarding Institution: The University of Reading
Teaching Institution: The University of Reading
Faculty of Economic and Social Sciences
Programme length: 10 months (41 weeks - full-time)
Date of specification: 3/4/07
Programme Director: Professor Charles Sutcliffe
Board of Studies: ICMA Centre
Accreditation: N/A

Summary of programme aims

The aim of the programme is to prepare graduates for a career in the investment management industry. The programme will provide participants with the opportunity to develop and demonstrate their understanding of both the theory and practical applications of modern finance in the related fields of securities markets and investment.

Students will be encouraged to take the Chartered Financial Analysts (CFA) Level 1 examination immediately after the completion of their studies. The CFA Institute is an international, nonprofit organization of more than 70,000 investment practitioners and educators in over 100 countries. The CFA designation is one of the fastest growing professional credentials in the world, and is a globally recognized standard for measuring the competence and integrity of investment professionals. In 2002, CFA examinations were administered in more than 70 nations around the world to more than 76,000 candidates from 151 countries.

The MSc programme is offered on a full-time residential basis.

Transferable skills

Students will have the opportunity to enhance their skills relating to numeracy, problem-solving, communication, information handling and the use of information technology, time management, team working and career planning.

The quantitative skills developed, including the use of statistical and econometrics software, are much in demand in the financial sector, but are readily transferable to other business and organizational contexts. All other skills are transferable and therefore not specific to particular firms or industries. Students will have the opportunity to improve their communication skills both in the preparation of written assignments and during the interaction with their classmates in the online discussions that support their learning. Both the Quantitative Methods and Valuation of Securities modules will require them to organize and interpret data.

Programme content

Mod Code	Module Title	Credits	Level
Part 1			
ICM101	*Valuation of Securities – Part 1 (Compulsory)*	20	M
ICM102	*Valuation of Securities – Part 2 (Compulsory)*	20	M
ICM103	*Quantitative Methods for Finance (Compulsory)*	20	M
ICM232	*Financial Analysis (Compulsory)*	20	M

Part 2

ICM201	*Portfolio Management (Compulsory)*	20	M
ICM202	*Trading and Exchanges (Optional)*	20	M
ICM203	*Empirical Market Microstructure (Optional)*	10	M
ICM206	*Interest Sensitive Securities: Pricing and Hedging (Optional)*	20	M
ICM207	*Market Risk (Optional)*	20	M
ICM208	*Volatility Analysis (Optional)*	20	M
ICM209	*Capital Raising (Optional)*	10	M
ICM210	*Corporate Valuation (Compulsory)*	10	M
ICM211	*Derivative Securities: Pricing, Hedging & Trading (Optional)*	20	M
ICM213	*Financial Engineering (Optional)*	20	M
ICM214	*Financial Regulation and Regulatory Policy (Optional)*	10	M
ICM215	*Foreign Exchange and Money Markets (Optional)*	20	M
ICM217	*Risk Management and Control (Optional)*	10	M
ICM218	*Research Project (Compulsory)*	20	M
ICM219	*Ethics in Finance (Optional)*	10	M
ICM221	*Hedging (Optional)*	20	M
ICM222	*Derivatives Methodology I (Optional)*	10	M
ICM223	*Derivatives Methodology II (Optional)*	10	M
ICM224	*Numerical Methods I (Optional)*	10	M
ICM225	*Numerical Methods II (Optional)*	10	M
ICM226	*Stochastic Calculus (Optional)*	20	M
ICM227	*Mergers and Corporate Governance Systems*	10	M
ICM228	*Topics in the History of Finance*	10	M
ICM229	*Interest Rate Fundamentals and Hedge Fund Strategies*	20	M
ICM230	*Great Investors and Speculators: their methods and evaluation*	10	M
ICM233	*Current Topics in Investment Management (Compulsory)*	10	M
ICM236	*Real Estate Finance*	10	M
ICM239	*Credit Risk (Optional)*	20	M

The MSc programme comprises 180 credits. All Part 1 modules are compulsory. In Part 2, the portfolio management, company valuation, financial analysis, current topics in investment management and research project modules are compulsory. In addition, students are allowed a free choice of modules totaling 20 credits from the list of optional modules above.

The new courses in Financial Analysis and Current Topics in Investment Management will only be available to students taking the IM degree. In addition, the IM students will be expected to take additional, specially-provided, non-examined courses in accounting, introductory economics and maths/stats if their previous knowledge is judged insufficient for the CFA level 1 examination. They will also be expected to attend a few specially-provided non-examined lectures in ethics which meets the CFA level 1 requirements, and to attend some additional lectures to help them move from the academic approach to the material they have learned in the ICMA Centre courses, to the professional approach required by the CFA. Some practice CFA level 1 exams will also be offered.

To help the IM students prepare for the CFA level 1 examination, they will be provided with a set of four self-contained books which cover the entire CFA level 1 examination syllabus. This will give them the material to self-study ethics and alternative investments. It will also allow them to self-study any other aspect of the CFA Level 1 syllabus. A special version of the Risk Manager software will be purchased so that when IM students use the ICMA Centre Trading Room, they will act as buy-side traders (e.g. investment managers), not sell-side traders.

Progression requirements

N/A

Summary of teaching and assessment

Teaching is organized in modules. The method of delivery varies among modules, especially in terms of the proportions of time allocated to lectures, seminars and dealing-room sessions. All modules are part-assessed via a multiple-choice test or course work that can take a variety of forms. Final assessment normally involves a written examination, and also incorporates course work marks. The full-time programme is taught over two 11-week terms. Part 1 begins at the beginning of Freshers Week in September of each year. Examinations for Part 1 modules are held in Week 1 of the following spring term. Part 2 occupies 9 weeks of the spring term and 2 weeks at the beginning of the summer term. Examinations for Part 2 are normally held in late May / early June.

The University's taught postgraduate marks classification is as follows:

Mark	Interpretation
70 – 100%	Distinction
60 – 69%	Merit
50 – 59%	Good standard (Pass)
Failing categories:	
40 – 49%	Work below threshold standard
0 – 39%	Unsatisfactory Work

For Masters Degrees
To pass the MSc students must gain an average mark of 50 or more overall. In addition the total credit value of all modules marked below 40 must not exceed 30 credits and for all modules marked below 50 must be less than 60 credits.*

Students who gain an average mark of 70 or more overall and have no mark below 40 will be eligible for a Distinction. Those gaining an average mark of 60 or more overall and have no mark below 40 will be eligible for a Merit.

For PG Diplomas
To pass the Postgraduate Diploma students must gain an average mark of 50 or more. In addition the total credit value of all modules marked below 40 must not exceed 30 credits and for all modules marked below 50 must be less than 60 credits[1].

Students who gain an average mark of 70 or more and have no mark below 40 will be eligible for the award of a Distinction. Those gaining an average mark of 60 or more and have no mark below 40 will be awarded eligible for a Merit.

For PG Certificate
To pass the Postgraduate Certificate students must gain an average mark of 50 or more. In addition the total credit value of all modules marked below 40 must not exceed 10 credits.*

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1 The provision to permit a candidate to be passed overall with a profile containing marks below 40 is made subject to the condition that there is evidence that the candidate applied his or herself to the work of those modules with reasonable diligence and has not been absent from the examination without reasonable cause.

Admission requirements

The entry requirements are as follows:

Undergraduate Degree
Minimum 2:1 or the equivalent from an overseas institution.

Degree Discipline
Any, but applicants must have a satisfactory level of numeracy.

English
If the applicant's native language is not English, then proof of proficiency is required. The two approved tests are:

TOEFL (Test of English as a Foreign Language) - score of 600 or above.
IELTS (British Council International English Language Test) - score of 7 or above.
Note. Students will not be accepted with English scores below these levels.

Ancillary Subjects
A basic knowledge of at least one of Mathematics & Statistics, Economics and Accounting.

GMAT (Graduate Management Admissions Test)
We strongly recommend that applicants submit a GMAT score, particularly if they have been out of education for more than a few years. We may ask an applicant to submit a GMAT score if we think it appropriate in their individual case.

Admissions Tutor: Dr. Simone Varotto

Support for students and their learning

University-wide support for students and their learning falls into two categories. Learning support includes IT Services, which has several hundred computers, and the University Library, which holds over a million volumes across its three sites, subscribes to around 4,000 current periodicals, has a range of electronic sources of information and houses the Student Access to Independent Learning (S@IL) computer-based teaching and learning facilities. There are also language laboratory facilities both for those students studying a language degree and for those taking modules offered by the Institution-wide Language Programme. Student guidance and welfare support is provided by Personal Tutors, the Careers Advisory Service, the University's Special Needs Advisor, Study Advisors, Hall Wardens and the Students' Union.

In addition, the ICMA Centre provides three purpose-built dealing rooms that include Reuters, Bridge and Bloomberg terminals and high-specification PCs that students routinely use for *INVEST* trading simulations and course work. Furthermore, the ICMA Centre has its own library that holds journals specializing in finance that are not available in the main university library. Each student is given a hand-held calculator for use throughout their studies. The ICMA Centre's Continuing Professional Development Unit provides specialized careers advice targeted at the investment banking industry as part of a non-credit Continuing Professional Development (CPD) module (which will also be available by distance learning). Learning support also includes a student handbook containing full details of the programme structure and administration. A Learning Management System, *MyICMACentre*, will be used in conjunction with *Blackboard*, to manage teaching and learning and to monitor student progress. *MyICMACentre* provides students and staff with on-line access to student records including photographs, e-mail and postal contact addresses, personal timetables, seminar

group allocations, examinations marks and careers advice. Student learning is fully supported by moderated web-based discussion boards.

Career prospects

Graduates of the ICMA Centre have an enviable record of attainment when it comes to gaining employment in the financial services industry. The global investment banking and securities markets attract the very best applicants and competition for entry-level positions remains intense. Despite the volatile nature of the financial markets, demand for well-qualified recruits remains high. We expect many of our graduates to enter the industry at either the 'Analyst' level, i.e. as graduate trainees, or as 'Associates', who tend to have several years of relevant professional experience. Our graduates leave us equipped with knowledge and transferable skills that are also prized by employers outside of the traditional banking and finance sectors. Many of our graduates are currently enjoying successful careers with government agencies and regulatory organizations throughout the world. Others are working with specialist IT firms, multinational companies and global consulting organizations. Increasingly, students join us to obtain specific technical and financial skills to enable them to join small financial boutiques, including venture capitalists, proprietary trading firms and hedge funds. Others are working in the area of e-commerce, especially small, entrepreneurial firms that seek to exploit the opportunities for internet-based securities sales and trading. Since our inception in 1994, at least 75% of our graduates each year have secured employment within three months of graduation.

Opportunities for study abroad or for placements

There are currently no opportunities to study abroad.

Educational aims of the programme

Each module sets explicit objectives and learning outcomes in a limited and well-defined area of the course syllabus. Some of these learning outcomes relate to key theoretical concepts, and are achieved through directed study supported by lectures, seminars and trading simulations in which students uncover theoretical concepts (e.g. price convergence in efficient markets) through their own actions. Achievement of these outcomes is assessed through written examinations and graded trading sessions.

Other objectives require students to demonstrate that they can apply specific techniques introduced in the module to new problems. These learning outcomes are achieved in part through seminar work based on exercises and problems set by lecturers and led by course tutors. They are also achieved through group and individual project work. Achievement of these outcomes is assessed through written examinations, and in some modules, graded project work.

On completion of the Masters degree students should be able to demonstrate extensive knowledge of strategies for the valuation, trading and risk management of financial securities and should understand how the markets for different types of securities interact. They should be able to apply these strategies to practical problems at a level of sophistication approaching that encountered in actual financial markets. They should also have acquired transferable core skills in computing and quantitative analysis.

Programme Outcomes

The programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills, qualities and other attributes in the following areas:

Knowledge and Understanding

A. Knowledge and understanding of:	**Teaching/learning methods and strategies**
1 fundamental techniques for portfolio selection, valuation of risky assets and financial decision-making. 2 practical techniques for developing strategies for the analysis of debt, equity and derivative securities. 3 analytical techniques used routinely in the finance research literature. 4 techniques in econometrics comprising model estimation and interpretation, hypothesis testing, and analysis of non-stationary data. 5 the structures and functions within the global financial securities industry.	Formal lectures, practical (including dealing-room) sessions and conventional classes, supervisions supported by directed and assessed self-study. Feedback and guidance are an important part of the process. This body of knowledge is communicated by detailed, paper-based lecture notes. These are supported by lectures or e-lectures and a Learning Management System (LMS). The LMS provides the students with the ability to participate in online discussion. *Assessment* Knowledge is tested via multiple-choice tests, tutor-marked assignments, tutor-moderated online discussion boards and unseen written examinations. Courses are assessed through a combination of coursework and unseen examinations. Practical project work is also assessed and provides a source of feedback on performance to students.

Skills and other attributes

B. Intellectual skills – able to:	**Teaching/learning methods and strategies**
1 gather, analyse and interpret data. 2 read, understand and discuss the relevant literature in refereed academic journals. 3 think logically and apply analytical principles to a range of problems in finance. 4 interpret news events and assess their potential effects upon the global financial markets.	Substantive problems are illustrated in lectures and smaller group seminars. Essays, project work and problem sets provide related opportunities for problem solving. Lectures supported by essays and seminar discussions provide the basis of ensuring the growing knowledge base becomes comprehensible. These skills are developed by each of the core modules, which are supported by key milestones and submission of tutor-marked assignments. Students will be presented with financial datasets and required to analyse them and to draw appropriate inferences. *Assessment* Through tutor-marked assignments, project work, problem sets, moderated online discussions and unseen written examinations.

C. Practical skills – able to:	Teaching/learning methods and strategies
1 use Information Technology effectively. 2 utilise econometrics software to critically analyse financial data. 3 communicate ideas online. 4 utilise Reuters, Bridge and Bloomberg business information and analytical tools. 5 use spreadsheet software to analyse complex practical problems in finance. 6 operate effectively in a simulated dealing-room environment, including the ability to manage bid/ask spreads.	Practical skills are introduced in lectures, developed in supporting tutorials, computer-based sessions and dealing-room sessions, and reinforced by problem sets and supervised project work. Teaching is supported by a Learning Management System that requires students to participate in asynchronous online discussions. Spreadsheet tasks and software modelling are included in the teaching of modules such as Valuation of Securities and Quantitative Methods. *Assessment* These are assessed through *INVEST* dealing-room sessions, computer-based sessions and tutorials. For flexible learners, tutor-marked assignments using Excel spreadsheets and other software packages will be submitted electronically as part of the milestones built into the programme calendar.

D. Transferable skills – able to:	Teaching/learning methods and strategies
1 contribute to online group discussions. 2 gather and interpret data, and present results. 3 work in teams. 4 demonstrate familiarity with the workings of the international financial markets. 5 use IT, including word processing, data exchange, graphics, spreadsheet and econometrics software and directed website searches. 6 communicate orally and in writing. 7 use library and web-based resources. 8 manage time to achieve goals.	The use of IT is an integral part of the practical side of the course. It is encouraged through applications that require economic and financial analysis. These involve spreadsheet-modelling exercises, Monte-Carlo simulations, website searches, use of library resources, the presentation of word-processed documents including graphics displays. Communication skills are assessed at several points throughout the programme. Communication, presentation and team-working skills are specifically emphasised in CPD. Good time management is essential for organising a timetable to complete project work. Tutor-moderated online discussion groups (1) and (3). Assignments. Interviews with prominent guest speakers from the City of London (4). *Assessment* Assessment of transferable skills is incorporated at several points in the programme. (1) and (3) contribute towards assessed work in projects, problem sets and dealing-room sessions. These are also assessed by means of unseen written examinations, tutor-marked assignments and moderated online discussion.

Please note - This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in the module description and in the programme handbook. The University reserves the right to modify this specification in unforeseen circumstances, or where the process of academic development and feedback from students, quality assurance processes or external sources, such as professional bodies, requires a change to be made. In such circumstances, a revised specification will be issued.