UNDERGRADUATE HANDBOOK SUPPLEMENT

For Students entering Year 4 of courses in

2015/2016

Department of Mathematics and Statistics
This document is for 3rd year students registered for BSc/MMath degrees in Mathematics and Statistics or BA joint degrees with Mathematics/Statistics as the second principal subject.

You should have received (or will receive soon in Week 12) from Student Experience and Enhancement Services (SEES) an announcement via Pegasus asking you to pre-register for Honours classes on-line via Pegasus. You will be informed by SEES that you must complete the pre-registration process by Friday 1st May 2015.

Attached is a list of final honours (fourth) year classes and details of how many credits you must choose. You should arrange a meeting with your Personal Development Adviser (PDA) to discuss your choice of classes for next year.

Please note that pre-registering for Honours classes is distinct from, and unrelated to, being allowed to progress to Honours. Decisions about the latter process are taken by the Board of Examiners after the third year exam results are known. See Progress section on page 5.

Pre-registering does not commit you to a set of classes, changes can be made up to the end of the second week of the relevant semester.

To pre-register for Year 4 of a joint degree via Pegasus you MUST select a project code BEFORE you have selected or been allocated a project. Please select from the appropriate lists below the project code that reflects your personal preference and then select your other class codes and enter all these codes into Pegasus for processing.

Projects

All students in 4th year of the BSc or MMath Mathematics-based degrees must undertake an element of project work. In the Department of Mathematics and Statistics, this is carried out in the 20-credit class MM401 Communicating Mathematics and Statistics.

- This class is compulsory for all students registered on 4th year of the BSc/MMath courses in Mathematics and Statistics.
- Students registered on 4th year of the joint BSc degrees (i.e. Mathematics and Physics, Mathematics and Computer Science or Mathematics, Statistics and a Business Subject) can either take MM401 or elect to do project work in the external department (see individual degree regulations for details).
• MM401 will run in both semesters: students should attend the class in the semester which balances their overall credit loading.

• Information about how project topics will be allocated will be provided in due course. Please note that the assessment of this class includes a presentation element which will be examined in Week 12 of the semester. A provisional assessment mark will be provided when available but will not be released on Pegasus until May/June.

• Other details of the class can be found in the University Class Catalogue: http://but.mis.strath.ac.uk/classcatalogue/

Dr D Greenhalgh  
4th Year Co-ordinator  
Mathematics & Statistics  
University of Strathclyde  
Office LT810  
Tel: 0141 548 3653  
email: david.greenhalgh@strath.ac.uk
The contents of this booklet are, as far as possible, up to date and accurate at the date of publication.

Changes and restrictions are, however, made from time to time and the University reserves the right to add to, amend, or withdraw classes, courses and facilities, to restrict student numbers and to make any other alterations as it may deem desirable and necessary. Changes are published by incorporation in the next edition of the University Calendar.

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First Day Meeting: Friday, 18 September 2015

9.00 – 11.30 Address by the Head of the Department of Mathematics and Statistics and the Year 4 Co-ordinator will take place in LT908.

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CALENDAR OF DATES 2015/2016

Semester 1 Teaching  Monday 21 September — Friday 11 December 2015

(PLEASE NOTE THAT MONDAY 28 SEPTEMBER IS A LOCAL HOLIDAY AND THE UNIVERSITY IS CLOSED)

Semester 1 Revision Week  Monday 14 December – Friday 18 December 2015

Examinations  Tuesday 5 January – Friday 15 January 2016

Semester 2 Teaching  Monday 18 January – Friday 22 April 2016

(Spring vacation)  Monday 4 April – Friday 15 April 2016

Semester 2 Revision Week  Monday 25 April – Friday 29 April 2016

Examinations  Monday 2 May – Friday 27 May 2016

Honours Examination Board  Tuesday 14 June 2016 (TO BE CONFIRMED)
This Undergraduate Handbook Supplement for Year 4 has two aims:

(1) to give you the information you need about our degree courses;

(2) to offer advice on who to contact in the Department of Mathematics and Statistics and in associated departments.

It covers the structure of Year 4 of the degree courses. For general information about how we teach and how you should learn, examinations and assessment, how to express your views to us and to ask us for help see the Undergraduate Handbook.

THE DEPARTMENT’S WEB SITE

For the Department of Mathematics and Statistics the home page is at:

http://www.strath.ac.uk/mathstat/

This site also contains links to pages for individual classes and other useful information. Of particular relevance is a link to undergraduate regulations that can be found at

http://www.strath.ac.uk/mathstat/currentstudents/mathematicsstatisticsdegreestudents/

The Fourth Year Adviser of Studies for the BSc and MMath degrees in Mathematics, Mathematics and Statistics, Mathematics and Computer Science, Mathematics and Physics, Mathematics with Teaching, Mathematics Statistics and Accounting, Mathematics Statistics and Economics, Mathematics Statistics and Finance, and Mathematics Statistics and Management Science, is

Dr. D. Greenhalgh [LT810, extension 3653, email david.greenhalgh@strath.ac.uk];

For BA Joint degrees the Fourth Year Adviser is

Dr. A.J. Gray [LT830, extension 4335, email a.j.gray@strath.ac.uk].

Final Year Arrangements

The co-ordination of the final year of the various degrees is in two parts:

Dr Greenhalgh oversees Group A degrees and Dr Gray oversees Group B degrees, as listed below:
Group A:  BSc in

Mathematics
Mathematics and Statistics
Mathematics and Computer Science
Mathematics and Physics
Mathematics with Teaching
Mathematics/Statistics/Accounting
Mathematics/Statistics/Economics
Mathematics/Statistics/Finance
Mathematics/Statistics/Management Science
MMath in Mathematics
MMath in Mathematics and Statistics

Group B:  BA joint degrees in

Accounting/Mathematics/Statistics
Economics/Mathematics/Statistics
Finance/Mathematics/Statistics
Management Science/Mathematics/Statistics
Psychology/Mathematics/Statistics

Progress to Fourth Year BSc/MMath degrees and BA joint degrees with Mathematics/Statistics

In order to proceed to the fourth year of a degree course involving Mathematics or Statistics a student must normally have accumulated no fewer than 360 credits from the course curriculum and must have achieved a level of performance gained at the first attempt that is acceptable to the Head of Department. Joint BA students, in addition, must have permission to proceed from both their department and Dr Gray.

The level of performance required for progressing into Year 4 is for a Honours student:  a credit weighted average of at least 40% in Level 3 classes obtained at the first attempt;  for a MMath student:  a credit weighted average of at least 60% in Level 3 classes obtained at the first attempt.

A student who fails to achieve the standard indicated above shall be transferred by the examination Board to a lower degree course and either awarded a degree or placed in Academic Suspension.

Fourth Year Curriculum:  Classes selected from approved lists, together with a project.  Generally, the classes will amount to 100 credits and the project will have a value of 20 credits.  (There are exceptions as some projects are 40 credits – see note on selection of classes).

Please note that students wanting to follow a Mathematics and Statistics degree need to formally request a transfer via the Fourth Year Adviser and this should be
done as soon as possible after the end of Third Year. Students who do not transfer or who request transfer late, may have difficulty being accepted onto the degree because of staffing and timetabling constraints.

Assessment for BSc with Honours will be based on performance in level 3 and level 4 classes at their first attempt (including any final year project or dissertation). The Final Honours Classification mark is \( \frac{m \times L3 + 3n \times L4}{m+3n} \) where \( m \) and \( n \) are the number of Level 3 and Level 4 credits, respectively, \( L3 \) is your Level 3 credit weighted average mark and \( L4 \) is your overall Level 4 average (including your project mark). For many BSc degrees this simplifies to \( \frac{L3 + 3 \times L4}{4} \).

BA joint degree students should consult their Business/HaSS Adviser.

The Departmental Examination Co-ordinator is:

Ms. S. Miller (LT914, extension 3598)

Students with approved Special Examination Needs should speak to the Departmental Disability Contact: Ms. S. Miller.

Personal Mitigating Circumstances Affecting Performance

Students whose performance has been, or will be, affected by circumstances that are acute, severe and outside their control should inform the University as soon as they are aware of these circumstances, by recording them on PEGASUS under ‘Personal Circumstances’ and submitting supporting evidence as soon as such evidence is available. Where it is felt that further detail is required or clarity can be added, students may also complete and submit a Personal Circumstances Form http://www.strath.ac.uk/staff/policies/academic/

When a student’s performance in examination(s) or other assessment(s) is affected, Personal Circumstances should be notified to Student Business within five working days of the latest affected examination/assessment or date of submission of affected assessment.

Information that you submit is kept confidential to the examiners; in most cases the details are made available only to the External Examiners and the Chair of the Examination Board. If you have any concerns about the confidentiality of the information that you wish to submit, please come and discuss this with the Head of Department or your Year Co-ordinator.

Where an entire semester or examination diet is affected a Personal Circumstances Form should be submitted as soon as possible and at least one working day before the relevant meeting of the Personal Circumstances Board. In NO case will a notification of Personal Circumstances be accepted after the Personal Circumstances Board has met.
Further information can be found on the Academic Policies & Procedures web page and at the following link:
http://www.strath.ac.uk/media/ps/cs/gmap/academicaffairs/policies/PersCircs_AcademicAppeals_Aug2013_v1_1.pdf
Final Honours – Selection of Classes: BSc involving Mathematics

Group A degrees

Codes for projects and credits

To pre-register for Year 4 of a joint degree on Pegasus you MUST select a project code BEFORE you have been allocated a project. Please select the project code that reflects your personal preference and then select your other class codes.

Any subsequent change in code for your project will be made in October.

BSc Mathematics and MMath in Mathematics

Curriculum consists of 120 credits including 20 credits from the compulsory class

MM401 Project (Communicating Mathematics and Statistics)

and classes amounting to at least 100 credits from the list of Mathematics and Statistics classes.

BSc Mathematics and Statistics and MMath in Mathematics and Statistics

Curriculum consists of 120 credits including 20 credits from the compulsory class

MM401 Project (Communicating Mathematics and Statistics)

and at least 100 credits from the list of Mathematics and Statistics classes. Students must include at least 120 credits of Statistics classes from third and fourth years and at least 40 credits from Level 4 Mathematics classes.

BSc Mathematics and Computer Science

Curriculum consists of 120 credits including one of the following projects/dissertations

MM401 Project (Communicating Mathematics and Statistics) 20

Or

CS408 Project (Computer Science) 40

and no fewer than 40 credits in each subject chosen from the approved class lists.

Computer and Information Sciences Department contact: Dr S. Terzis
BSc in Mathematics and Physics

Curriculum consists of 120 credits including one of the following projects/dissertations

MM401 Project (Communicating Mathematics and Statistics) 20

Or

PH450 Project (Physics) 40

and no fewer than 40 credits in each subject chosen from the approved class lists.

Physics Department contact: Dr N. Langford

BSc Mathematics with Teaching

80 credits of compulsory education classes together with classes amounting to 40 credits from an approved list.

The selection of first semester Mathematics lecture classes is restricted to the following (some other classes may be available, but this will not be known until the First Day meeting before the new Session starts, when students will be informed of any other available classes):

<table>
<thead>
<tr>
<th>Class Code</th>
<th>Class Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>X9458</td>
<td>Educational Studies 1</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>X9462</td>
<td>Educational Studies 2</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>X9463</td>
<td>Pedagogy and Placement Learning 2</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>X9464</td>
<td>Pedagogy and Curriculum Mathematics 2</td>
<td>2</td>
<td>20</td>
</tr>
</tbody>
</table>

Optional Classes

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM403</td>
<td>Applicable Analysis 3</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>MM404</td>
<td>Statistical Modelling and Analysis</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>MM406</td>
<td>Finite Element Methods for Boundary Value Problems and Approximation</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>MM409</td>
<td>Mathematical Introduction to Networks</td>
<td>1</td>
<td>20</td>
</tr>
</tbody>
</table>

School of Education contact: Mr J. Winter
BSc in Mathematics, Statistics and 
Accounting/Economics/Finance/Management Science

Curriculum consists of 120 credits including one of the following projects/dissertations

- MM401 (Mathematics and Statistics) (20 credits)
- 40480 (Accounting) (20 credits)
- EC419 (Economics) (20 credits)
- 40490 (Finance) (20 credits)
- 48490 (Management Science) (20 credits)

In addition at least 100 credits from the Maths/Stats/Business classes which must include at least 40 credits in the appropriate Business subject, and 20 credits in each of Mathematics and Statistics classes.

Departmental contact: 
- Mrs M. Stewart (Accounting)
- Dr Giuseppe de Feo (Economics)
- Dr C Thapa (Finance)
- Dr Farhad Shafti (Management Science)

Group B degrees

BA Joint Honours degrees involving Mathematics/Statistics

The curriculum consists of 120 credits including a project/dissertation in either Mathematics/Statistics or the appropriate Business/HaSS subject, together with at least 40 (60 for HaSS joint degrees) credits in Mathematics/Statistics classes (see list on following page) and the credit requirements as specified for the appropriate Business/HaSS subject.
### Department of Mathematics and Statistics

**Final honours degrees involving Mathematics and Statistics**

**PLEASE NOTE THAT PEGASUS MAY HAVE THE WRONG SEMESTER INFORMATION - ONLY USE THIS DOCUMENT WHEN SELECTING YOUR CLASSES.**

#### Final Year Classes in Mathematics and Statistics

**Semester 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM401</td>
<td>Communicating Mathematics and Statistics (project)</td>
</tr>
<tr>
<td>MM403</td>
<td>Applicable Analysis 3</td>
</tr>
<tr>
<td>MM404</td>
<td>Statistical Modelling and Analysis</td>
</tr>
<tr>
<td>MM406</td>
<td>Finite Element Methods for Boundary Value Problems and Approximation</td>
</tr>
<tr>
<td>MM409</td>
<td>Mathematical Introduction to Networks</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM401</td>
<td>Communicating Mathematics and Statistics (project)</td>
</tr>
<tr>
<td>MM402</td>
<td>Modelling and Simulation with Applications to Financial Derivatives</td>
</tr>
<tr>
<td>MM405</td>
<td>Fluids and Waves</td>
</tr>
<tr>
<td>MM407</td>
<td>Applied Statistics in Society</td>
</tr>
<tr>
<td>MM408</td>
<td>Mathematical Biology and Marine Population Modelling</td>
</tr>
</tbody>
</table>
Outlines of Fourth Year Classes in Mathematics and Statistics

For further information on the content of the classes listed below, please refer to the document Third and Fourth Year Mathematics and Statistics Classes – Additional Information on Class Content. (http://www.strath.ac.uk/media/departments/mathematics/handbooks/ClassesY3Y4.pdf).

MM401 Communicating Mathematics and Statistics

Summary: To provide students with experience of the skills required to undertake project work, and to communicate the findings in written and oral form using a variety of sources, such as books, journals and the internet.

Prerequisites: None.

Timetable: 8 lectures, 192 hours of self study in the relevant semester.

Assessment: Project plan (10%), report (70%), presentation (20%).

Reading List:


MM402 Modelling and Simulation with Applications to Financial Derivatives

Summary: An introduction to ideas in mathematics and statistics that can be used to model real systems, with an emphasis on the valuation of financial derivatives. The class places equal emphasis on deterministic analysis (calculus, differential equations) and stochastic analysis (Brownian motion, birth and death processes). In both cases, in addition to theoretical analysis, appropriate computational algorithms are introduced. The first half of the class introduces general modelling and simulation tools, and the second half focuses on the specific application of valuing financial derivatives, including the celebrated Black-Scholes theory.

Prerequisites: None.

Timetable: 48 lectures, 12 tutorials and 6 laboratories in Semester 2.

Assessment: 3 hour examination (100%).
**Reading List:**


**MM403 Applicable Analysis 3**

**Summary:** To present the main results in Functional Analysis, give an introduction to linear operators on Banach and Hilbert spaces and study applications to integral and differential equations.

**Prerequisites:** MM303.

**Timetable:** 48 lectures and 12 tutorials in Semester 1.

**Assessment:** 3 hour examination (100%).

**Reading List:**


**MM404 Statistical Modelling and Analysis**

**Summary:** To provide students with a range of applied statistical general linear modelling techniques that can be used in professional life for the analysis of univariate and multivariate data.

**Prerequisites:** Essential: MM204. Desirable: MM304.

**Timetable:** 36 lectures and 24 computer laboratory sessions in Semester 1.

**Assessment:** Assessments will consist of written exams, projects or computer lab exams with a minimum of 50% of the course assessed under exam conditions.

**Reading List:**


**MM405 Fluids and Waves**

**Summary:** To introduce the theory of Newtonian fluids and its application to flow problems. To introduce the dynamics of waves on water and in other contexts.

**Prerequisites:** Essential: MM302; MM305.

**Timetable:** 48 lectures and 12 tutorials in Semester 2.

**Assessment:** 3 hour examination (100%).

**Reading List:**


**MM406 Finite Element Methods for Boundary Value Problems and Approximation**

**Summary:** This class aims to present the student with the basic theory and practice (as in computational implementation) of finite element methods and polynomial and piecewise polynomial approximation theory.

**Prerequisites:** MM201; MM202; MM302.

**Timetable:** 48 lectures, 12 tutorials in Semester 1.

**Assessment:** 3 hour examination (100%).

**Reading List:**


**MM407 Applied Statistics in Society**

**Summary:** To introduce students to a range of modern statistical methods and practices used in industry, commerce and research, and to develop skills in their application and presentation.

**Prerequisites:** MM204.

**Timetable:** 36 lectures and 24 computer laboratories in Semester 2.

**Assessment:** Assessments will consist of written exams, projects or computer lab exams with a minimum of 50% of the course assessed under exam conditions.

**Reading List:**


**MM408 Mathematical Biology and Marine Population Modelling**

**Summary:** This course will teach the application of mathematical models to a variety of problems in biology, medicine, and ecology. It will show the application of ordinary differential equations to simple biological and medical
problems, the use of mathematical modelling in biochemical reactions, the application of partial differential equations in describing spatial processes such as cancer growth and pattern formation in embryonic development, and the use of delay-differential equations in physiological processes. The marine population modelling element will introduce the use of difference models to represent population processes through applications to fisheries, and the use of coupled ODE system to represent ecosystems. Practical work will include example class case studies that will explore a real-world application of an ecosystem model.

**Prerequisites:** MM302.

**Timetable:** 48 lectures and 12 tutorials in Semester 2.

**Assessment:** 3 hour examination (100%).

**Reading List:**


**MM409 Mathematical Introduction to Networks**

**Summary:** To demonstrate the central role network theory plays in mathematical modelling. To show the intimate connection between linear algebra and graph theory and to use this connection to develop a sound theoretical understanding of network theory. To apply the theory as a tool for revealing structure in networks.

**Prerequisites:** MM201.

**Timetable:** 48 lectures, 8 tutorials and 16 computer laboratory sessions in Semester 1.

**Assessment:** 2 hour examination (75%) and continuous assessment (25%).
Reading List:

Department of Computer and Information Sciences

Final Year Options: 2015-2016

<table>
<thead>
<tr>
<th>Class Code</th>
<th>Class Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS409</td>
<td>Software Architecture and Design</td>
<td>1 &amp; 2</td>
<td>20</td>
</tr>
<tr>
<td>CS410</td>
<td>Advanced Functional Programming</td>
<td>1 &amp; 2</td>
<td>20</td>
</tr>
<tr>
<td>CS411</td>
<td>Theory of Computation</td>
<td>1 &amp; 2</td>
<td>20</td>
</tr>
<tr>
<td>CS412</td>
<td>Information Access and Mining</td>
<td>1 &amp; 2</td>
<td>20</td>
</tr>
</tbody>
</table>

Most of the teaching for above classes occurs in Semester 1 and they are examined in Semester 2.

**Up to date details can be found at:**

http://www.strath.ac.uk/cis/localteaching/localug/
Department of Physics

Final Year Options: 2015–2016

<table>
<thead>
<tr>
<th>Class Code</th>
<th>Class Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH451</td>
<td>Physics Skills</td>
<td>1 &amp; 2</td>
<td>20</td>
</tr>
<tr>
<td>PH452</td>
<td>Topics in Physics</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>PH453</td>
<td>Topics in Solid State Physics</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>PH454</td>
<td>Topics in Nanoscience</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>PH455</td>
<td>Topics in Photonics</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>PH456</td>
<td>Topics in Computational and Complex Systems in Physics</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH457</td>
<td>Topics in Theoretical Physics</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>PH458</td>
<td>Topics in Quantum Physics</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>PH459</td>
<td>Topics in Atomic, Molecular and Nuclear Physics</td>
<td>2</td>
<td>20</td>
</tr>
</tbody>
</table>

Up to date details can be found at:

http://www.strath.ac.uk/physics/currentstudents/curriculum/
Department of Accounting and Finance

Final Year Classes in Accounting: 2015-2016

<table>
<thead>
<tr>
<th>Class Code</th>
<th>Class Title</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG408</td>
<td>Integrative Studies in Management and Accounting</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG409</td>
<td>Sustainability Accounting: Theory and Practice</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG413</td>
<td>Taxation</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG415</td>
<td>Contemporary Issues in International Financial Reporting</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG416</td>
<td>Management Accounting Theory and Practice</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG417</td>
<td>Research Methodologies and Accounting</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG418</td>
<td>Public Sector Accounting</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG419</td>
<td>Accounting and Risk</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG420</td>
<td>Auditing Theory and Practice</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG422</td>
<td>Accounting Ethics</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG424</td>
<td>Accounting Theories</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG425</td>
<td>Corporate Governance</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG437</td>
<td>Strategic Accounting and Financial Management in Entrepreneurial Firms</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG438</td>
<td>Understanding Accounting Technologies and Institutional Structures</td>
<td>1</td>
<td>20</td>
</tr>
</tbody>
</table>

Please note that all classes may not operate every year and semesters may vary.

Up to date details can be found at:

http://www.strath.ac.uk/accfin/currentundergraduatestudents/
Department of Accounting and Finance

Final Year Classes in Finance: 2015-2016

<table>
<thead>
<tr>
<th>Class Code</th>
<th>Class Title</th>
<th>Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AG426</td>
<td>Advanced Derivatives</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG427</td>
<td>Advanced Portfolio Analysis</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG428</td>
<td>Asset Pricing</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG429</td>
<td>Behavioural Finance</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG430</td>
<td>Corporate Financing</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG431</td>
<td>Corporate Investment</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG432</td>
<td>Financial Quantitative Methods</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>AG433</td>
<td>International Corporate Governance</td>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>AG434</td>
<td>International Financial Management</td>
<td>2</td>
<td>20</td>
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</table>

Please note that all classes may not operate every year and semesters may vary.

Up to date details can be found at:

http://www.strath.ac.uk/accfin/currentundergraduatetestudents/
Department of Economics

Final Year Classes in Economics: 2015-2016

<table>
<thead>
<tr>
<th>Class Code</th>
<th>Class Title</th>
<th>Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EC403</td>
<td>Microeconomics 4</td>
<td>1</td>
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<tr>
<td>EC404</td>
<td>Macroeconomics 4</td>
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<tr>
<td>EC412</td>
<td>Industrial Economics</td>
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<tr>
<td>EC413</td>
<td>Applied Econometrics</td>
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<td>20</td>
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<tr>
<td>EC414</td>
<td>Financial Development and Economic Growth</td>
<td>2</td>
<td>20</td>
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<tr>
<td>EC415</td>
<td>Behavioural Economics</td>
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<tr>
<td>EC416</td>
<td>Natural Resource, Environmental and Energy Economics</td>
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</table>

Up to date details can be obtained from the Department of Economics.
Department of Management Science

Final Year Classes in Management Science: 2015-2016

<table>
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<th>Class Code</th>
<th>Class Title</th>
<th>Semester</th>
<th>Credits</th>
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<tr>
<td>MS415</td>
<td>Business Process Integration with ERP</td>
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<td>MS416</td>
<td>Business Analytics Using Data Mining</td>
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<td>MS422</td>
<td>Risk Analysis and Management</td>
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Please note that all classes may not operate every year and semesters may vary.

Up to date details can be found at:

http://www.strath.ac.uk/mansci/managementscienceclasses/
External Examiners

The External Examiners for the MMath Mathematics, MMath Mathematics and Statistics, BSc Hons Mathematics and BSc Hons Mathematics and Statistics courses are as follows:

Dr Jozsef Farkas (Analysis), Computing Science and Mathematics, School of Natural Sciences, University of Stirling.

Dr Richard Scott (Applied), School of Mathematics and Statistics, University of St Andrews.

Dr Vanessa Styles (Numerical), Department of Mathematics, School of Mathematical and Physical Sciences, University of Sussex.

Professor Charles Taylor, Professor of Statistics, School of Mathematics, University of Leeds.
Prizes

Astronomical Society of Glasgow Prize

Awarded to the most distinguished student in the final year of a BSc Honours course in Mathematics. Alternates with Physics. Awarded by the Department of Mathematics and Statistics in even years (and the Department of Physics in odd numbered years).

Sir Hermann Bondi Prize

Awarded to a student of Mathematics who displays originality or excellence and skill in presentation of a sufficiently high order in the Final Honours project.

Walter Brown Prize

Founded in 1957 by the Trustees of the late Professor Walter Brown. Awarded annually to a meritorious student in the final year of a BSc Honours course in Mathematics.

Kelvin Prize

Awarded to a meritorious student in the final year of a BSc Honours course in Mathematics.

Frank Leslie Prize

Founded in 2000 in memory of the late Professor Frank Leslie, FRS. Awarded annually to a meritorious student in the final year of the BSc Honours course in Mathematics and Physics.

Two IMA Prizes (Note that these are not official University Prizes listed in the University Calendar)

Membership of the IMA for one year for two distinguished students in the final year in the Department of Mathematics and Statistics. Note that the prize is restricted to students on IMA accredited degrees, i.e. BSc/MMath Mathematics, BSc Mathematics and Statistics, BSc Mathematics with Teaching.

Gary Roach Prize

Founded in 2012 in memory of the late Professor Gary Roach. Awarded annually to a meritorious student in the final year of a BSc Honours course who has demonstrated excellence in Mathematical Analysis.