

Calendar 2005-06



UNIVERSITY
of
GLASGOW

FACULTIES OF SCIENCE

DEANS:

Faculty of Biomedical & Life Sciences

Professor J Coggins MA PhD FRSE

Faculty of Information and Mathematical Sciences

Professor Professor D R Fearn BSc PhD FRSE CMath FIMA

Faculty of Physical Sciences

Professor D Saxon MA DPhil DSc FRSE FRSA CPhys FInstP

Principal Adviser of Studies: I Allison BSc MSc DIC PhD

DATES OF SEMESTERS

Semester 1: 27th September 2005 - 20th January 2006

Christmas Vacation: 19th December 2005 - 6th January 2006

Semester 2: 23rd January 2006 - 2nd June 2006

Spring Vacation: 20th March 2006 - 7th April 2006

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NOTICE

Science comprises three Faculties: Biomedical and Life Sciences, Information and Mathematical Sciences and Physical Sciences.

For further information on any matter concerning degree regulations or appeals procedures, contact the Science Faculties Support Unit, level 3, Boyd Orr Building.

I UNDERGRADUATE ENTRY TO FACULTIES

Before applying for admission to the Faculties of Science, all applicants should consult the most recent edition of the University's *Undergraduate Prospectus*, which sets out the normal qualifications required for admission, describes the application procedure, summarises the degree regulations and courses offered, and gives general information about the University. The *Prospectus* is available in most U.K. schools, or it may be obtained from The Student Recruitment and Admissions Service, University of Glasgow, Glasgow G12 8QQ, Scotland.

II APPEALS BY STUDENTS

The Senate is charged by the *Universities (Scotland) Acts* with a duty to superintend the teaching of the University. This is understood to include examining. The Senate has authorised the establishment of Faculty Appeals Committees to hear appeals in the first instance, as specified in the Code of Procedure for Appeals to a Faculty Appeals Committee.

A student may further appeal from the decision of the relevant Faculty Appeals Committee to the Senate.

Any appeal giving all the grounds of that appeal must be despatched in writing to the Clerk to the Science Faculties, or to the Head of the Senate Office, as appropriate, within 10 working days of the intimation to the student of the decision against which he or she is appealing.

Students are advised to consult the Science Faculties' Clerk, Boyd Orr Building, before lodging an appeal to the Faculty Appeals Committee and the Head of the Senate Office, before lodging an appeal to the Senate Appeals Committee.

The Code of Procedure for Appeals to a Faculty Appeals Committee and the Code of Procedure for Appeals to the Senate are set out in that section of the University *Calendar* entitled 'University Fees and General Information for Students', which is available online at <http://senate.gla.ac.uk/calendar/>. Copies are also available for students to consult in the Science Faculties Support Unit, Boyd Orr Building.

III DEGREE OF BACHELOR OF SCIENCE AND DEGREE OF MASTER IN SCIENCE

The Degrees of Bachelor of Science (BSc) and Master in Science (MSci) are governed by Resolution of the University Court with provision that:

1. The Degrees of Bachelor of Science (BSc) and Master in Science (MSci) may be conferred by the University of Glasgow in the Faculties of Biomedical and Life Sciences, Information and Mathematical Sciences and Physical Sciences as a degree in such designations as may be prescribed by Regulations.
2. The Senate will make Regulations governing the award of the degrees which are subject to the approval of the University Court. These shall be stated under 'Regulations' below.
3. The degree of BSc may be offered as a Degree of BSc in a Designated Subject, or as a Degree of BSc with Honours in a Principal Subject. The Degree of Master in Science (MSci) may be offered as a degree in a Principal Subject. The University may also award a Certificate of Higher Education (General Science) and a Diploma of Higher Education (General Science).

REGULATIONS

1. Duration of Degree Study

1.1 Study in the University of Glasgow

The curriculum for the Degree of BSc in a Designated Subject shall extend over not fewer than three sessions of full-time study or five sessions of part-time study. The curriculum for the Degree of BSc with Honours or the Degree of MSci shall extend over not fewer than four sessions of full-time study or, exceptionally, not fewer than two sessions of full-time study preceded by at least three sessions of part-time study. The curriculum for the Certificate of Higher Education (General Science) shall extend over not less than one session of full-time study or two sessions of part-time study, and the curriculum for the Diploma of Higher Education (General Science) shall extend over not less than two sessions of full-time study or three sessions of part-time study. Exceptionally, other combinations of full-time and part-time study may be approved by the Senate in individual cases.

The Principal Subject in the curriculum for the Degree of BSc with Honours or the Degree of MSci shall be the candidate's sole subject of study during the session immediately preceding his or her final examination. The study of the Principal Subject shall extend over not less than two sessions of full-time study; and where the Principal Subject itself is not studied over at least three sessions, the study of the Principal Subject shall be preceded by the study of appropriate cognate subjects.

Any candidate who is exempted from courses on the basis of studies undertaken elsewhere (see 1 b below) shall attend courses in the University of Glasgow for at least one session for the Degree of BSc in a Designated Subject, or for at least two sessions for the Degree of BSc with Honours or the Degree of MSci. Candidates for the Degree of BSc with Honours or the Degree of MSci must attend the University of Glasgow during the final year of their curriculum, except where that final year is an approved work placement year, and may be required by the Head of Department concerned to attend the University of Glasgow during the final two years of their curriculum.

1.2 Recognition of Study in other Faculties, Universities and Institutions of Tertiary Education and secondary level qualifications

- a) A candidate who has attended courses of instruction and passed the appropriate assessments at any University approved by the University Court on the recommendation of the Senate (including study as part of a student exchange programme approved by the Senate), or at any other institution of education likewise approved, may be permitted to count such courses towards qualification for the Degree of BSc or MSci at the University of Glasgow, provided that the Senate is satisfied that the standard of such courses is equivalent to the standard of BSc or MSci courses taught in the University of Glasgow.
- b) The subjects recognised in 1b).1 above shall be the subjects of study in the Faculties of Science at the University of Glasgow, or other subjects that shall be (i) approved by the Senate as of equivalent standard, and (ii) recognised under such conditions as the Senate may prescribe in each case.
- c) A candidate who has presented himself or herself for the BSc Honours or MSci final examination in any group of subjects for a degree in another Faculty may not choose a subject of that group as his or her Principal Subject for the Degree of BSc with Honours or MSci.
- d) A candidate in the Faculty of Medicine or Veterinary Medicine in the University of Glasgow may be selected for admission to the Faculties of Science after satisfactory completion of all the courses of the first two sessions of the MB ChB, BDS, or BVMS curriculum, as set out in the regulations for the degree concerned. The candidate may qualify for the Degree of BSc after one session of full-time study or for the Degree of BSc with Honours after two sessions of full-time study. In recognition of completing these courses, the candidate shall be awarded 240 credits (but no grade points) by the Principal Adviser of Studies in the Faculties of Science. Recognition of these courses will be subject to review in the event of substantial changes in the MB ChB, BDS, or BVMS curriculum.
- e) A candidate who has satisfactorily completed courses in another University or institution of education may be allowed to count such courses as qualifying courses in Science, provided that the Senate is satisfied that the standard of such courses is equivalent to that of courses in Science. The candidate shall be awarded a maximum of 240 credits (but no grade points) by the Principal Adviser of Studies. The candidate exempted under this provision shall attend the University of Glasgow for at least one session of full-time study before qualifying for the Degree of BSc, and for at least two sessions of full-time study before qualifying for the Degree of BSc with Honours or MSci.
- f) A candidate may qualify for exemption from level-1 courses totalling at most 120 credits by obtaining passes in appropriate subjects at specified grades in approved Certificate of Education examinations, under such conditions as the Senate may prescribe in each case. The candidate shall be awarded a maximum of 120 credits (but no grade points) by the Principal Adviser of Studies. The candidate exempted under this provision shall attend the University of Glasgow for at least two sessions of full-time study before qualifying for the Degree of BSc, and for at least three sessions of full-time study before qualifying for the Degree of BSc with Honours or MSci.

2. General Structure and Assessment of Degree

2.1 Subjects of Study

a) Science Subjects

Science subjects, and courses in these subjects, shall be as defined in the Undergraduate Course Catalogue.

b) Non-Science Subjects

A candidate for the Degree of BSc with Honours or MSci, where the Principal Subject is a combination of a Science subject and a non-Science subject, must include in his or her curriculum all required courses in the non-Science subject.

A candidate may include in his or her curriculum any other non-Science courses, subject in each case to the approval of the Faculties of Science and the other Faculty and Department concerned, and under such conditions regarding admission, attendance, and progress as are prescribed by that Faculty and Department.

Note: Regulations 2.3(c), (d) and (e) 4.1, 4.2, 4.3, 4.4, 4.5 restrict the proportion of non-Science courses in a candidate's curriculum.

2.2 Courses

The Faculties and Senate shall approve undergraduate courses at levels 1, 2, 3, 3H/M, 4H/M and 5M. The names and levels of these courses, and their worth in credits, shall be specified in the *Undergraduate Course Catalogue*. Admission requirements, and their assessment methods shall also be specified in their respective course entries in the *Undergraduate Course Catalogue*.

a) Credits

Each course shall be worth the number of credits specified in its course entry in the *Undergraduate Course Catalogue*. The number of credits shall normally be a multiple of 10, and shall be calculated on the principle that 10 credits is equivalent to approximately 100 hours of learning time, the standard full-time workload being 120 credits per session.

Each candidate shall be awarded the specified number of credits on completion of the course.

b) Qualifying Courses

A course at level 1, 2, or 3 shall be termed a qualifying course.

c) BSc Honours Courses

A course at level 3H or 4H in one of the subjects named in List 1 shall be termed a BSc Honours course.

For each of the subjects shown as a Principal Subject for BSc with Honours in List 1(a), there shall be a level-3H (single) course and a level-4H (single) course in that subject. Each such course shall normally be worth 120 credits.

For each of the combinations of subjects given in List 1(b), there shall be a level-3H (combined) course and a level-4H (combined) course in each subject of the combination. Each such course shall normally be worth 60 credits.

d) MSci Courses

A course at level 3M, 4M or 5M in one of the subjects shown in List 1 shall be termed an MSci course.

For each of the subjects identified in List 1(a) as available in an MSci, there shall be a level-3H/M (single) course and a level-4H/M (single) course in that subject. There may also be a level 5M (single) course. Each such course shall normally be worth at least 120 and at most 160 credits.

For each of the combinations of subjects identified in List 1(b) as available in an MSci, there shall be a level-3H/M (combined) course and a level-4H/M (combined) course in each subject of the combination. There may also be a level 5M (combined) course. Each such course shall normally be worth at least 60 credits and at most 80 credits.

A summer project, worth a maximum of 40 additional credits at level M, may be undertaken during years 3 and 4 and the intervening long vacation.

e) Qualifying Courses for Intercalated Degrees

For the purposes of the Intercalated Degree of BSc combined with the Degree of MB ChB, BDS, or BVMS under the provisions of Regulation 1(b)4, the courses constituting the first two or three sessions, depending on the curriculum of the MB ChB, BDS, or BVMS are recognised as Science qualifying courses. Recognition of these courses will be subject to review in the event of substantial changes in the MB ChB, BDS, or BVMS curriculum.

2.3 Admission Requirements

a) Prerequisites and Corequisites

Each course may have admission requirements, which shall be specified in its course entry in the *Undergraduate Course Catalogue*. Other courses may be specified as prerequisites or corequisites. To be admitted to the course:

- i) The candidate must have completed each prerequisite course at grade D or better (unless a different grade is specified). If the course follows a prerequisite course in the same session, however, it shall be sufficient for the candidate to have completed the prerequisite course.
- ii) The candidate must either have completed, or be concurrently attending, each corequisite course.

b) Admission Requirements for Qualifying Courses

The specified prerequisites or corequisites for a qualifying course may be other qualifying courses in the same or cognate subjects, at the same or lower levels.

c) Admission Requirements for BSc in a Designated Subject

The specified prerequisites for a level-3 course shall include qualifying courses in the same or cognate subjects at specified minimum grades. In addition, the following general requirements shall apply for admission to all level-3 courses:

- i) The candidate must have completed qualifying courses totalling at least 240 credits, with a grade point average of 10, unless admitted directly to level-3.
- ii) The candidate must have completed qualifying courses totalling at least 120 credits in Science subjects.

d) *Admission Requirements for BSc Honours Courses*

The specified prerequisites for a level-3H course shall include qualifying courses in the same or cognate subjects, at specified minimum grades. In addition, the following general requirements shall apply for admission to all level-3H courses:

- i) The candidate must have completed qualifying courses totalling at least 240 credits, with a grade point average of at least 11, unless admitted directly to 3H;
- ii) The candidate must have completed qualifying courses totalling at least 140 credits in Science.
- iii) The candidate must have completed 180 credits at grade D or above including 60 credits, of which 40 should be in Science, above level 1.

The particular prerequisites for a level-4H course shall include the corresponding level-3H course, at a specified satisfactory minimum grade. In addition, the following general requirement shall apply for admission to all level-4H courses:

- iv) The candidate must already meet requirement 2.3(d)(i) above and all the qualification requirements for the Degree of BSc in a Designated Subject.

A candidate who has completed a level-3M course may, at the discretion of the Head of Department concerned, be admitted to the level-4H course (if any) in the same subject. Other transfers between MSci and BSc Honours courses may be permitted exceptionally by the Head of Department, who shall report each such case to the Faculty.

e) *Admission Requirements for MSci Courses*

The specified prerequisites for all MSci courses shall include qualifying courses in the same or cognate subjects, at specified minimum grades. The following general requirements shall apply for admission to all level-3M courses:

- i) The candidate must have completed qualifying courses totalling at least 240 credits, with a grade point average of at least 12.
- ii) The candidate must have completed qualifying courses totalling at least 140 credits in Science with a grade point average of at least 12.
- iii) The candidate must have completed qualifying courses totalling at least 60 credits above level 1 in Science with a grade point average of at least 12.
- iv) The candidate must have completed qualifying courses totalling at least 100 credits above level 1, with a grade point average of at least 12.

The prerequisites for a level-4M course shall include the corresponding level-3M course or work placement year, at a specified satisfactory minimum grade. In addition, the following general requirement shall apply for admission to all level-4M courses:

- v) The candidate must already meet the qualification requirements for the Degree of BSc in a Designated Subject.
- vi) The pre-requisites for a level-5M course, where appropriate, shall include the level-4M course at a specified minimum grade.

f) *Admission to Courses*

Subject to the approval of the Senate, admission to any course may be restricted if the number of candidates wishing to enrol exceeds the number of places available. The published admission requirements shall indicate, where appropriate, the normal level of attainment necessary to obtain admission to the course concerned.

Admission to a course is normally open only to candidates who satisfy all its admission requirements. However, the Head of Department concerned may accept other evidence of suitability for admission to the course, and shall report each such case to the Faculty at its first meeting in the session concerned.

Admission to a BSc Honours or MSci course is at the discretion of the Head of Department concerned. Admission to certain level-2 and level-3 courses, where specified in their course entries in the *Undergraduate Course Catalogue*, is also at the discretion of the Head of Department. Candidates who desire admission to such a course must make application to the Head of Department during the semester before the course starts.

Each Department shall ensure that candidates are informed of the standard of performance that guarantees an offer of admission to a BSc Honours or MSci course in a particular subject. Any other candidate shall be offered admission to the BSc Honours course if the Head of Department judges that the candidate's previous performance offers a reasonable prospect of the candidate reaching the standard required in the BSc Honours course. However, depending on demand, class size may have to be limited and admission of students not achieving the guaranteed requirements is subject to the availability of places in the class. A candidate who has previously registered for a qualifying course may be re-admitted to the course for one further attempt, subject to the availability of places. Any subsequent attempts thereafter are at the discretion of the Head of Department concerned. A candidate may be re-admitted to a BSc Honours or MSci course only in exceptional circumstances.

g) *Appeals against non-admission to courses*

Any candidate who has been refused admission or re-admission to a course under the provisions of Regulation 2.3(f) may appeal in writing to the Faculty, citing any special circumstances bearing on his or her case.

2.4 *Curricula*

a) *Qualifying Curricula*

A curriculum for the Certificate or Diploma of Higher Education (General Science) normally consists entirely of qualifying courses.

A curriculum for the Degree of BSc normally consists entirely of qualifying courses, but may also include level-3H course(s).

A curriculum for the Degree of BSc with Honours must consist of qualifying courses totalling at least 240 credits, level-3H course(s) totalling at least 120 credits, and level-4H course(s) totalling at least 120 credits.

A curriculum for the Degree of MSci must consist of qualifying courses totalling at least 240 credits; followed by a minimum of 360 credits at level-3H/M, level-4H/M, possibly 5M, and any required MSci work placement, of which 120 must be at level M.

b) *Overlapping Courses*

A qualifying curriculum must not include courses with substantially overlapping contents. Such combinations of overlapping courses shall be identified along with the course entries in the *Undergraduate Course Catalogue*.

c) *Approval of Curricula*

Every candidate must have his or her curriculum approved at the start of each session by his or her Adviser of Studies. Once approved, the curriculum may be altered only with the approval of the Adviser.

Each full-time candidate shall enrol for courses totalling not less than 100 credits and normally not more than 160 credits in each session. Each part-time candidate shall enrol for courses totalling a maximum of 100 credits in each session.

2.5 *Minimum Requirement for the Award of Credits*

The minimum requirement for the award of credits for a course shall be specified by the Department concerned, and given to candidates in writing at the beginning of the course. This requirement shall normally include a specified minimum level of compliance with departmental instructions in terms of attendance and completion of work, and a specified minimum level of performance in assessed work. Normally no grade or credits shall be awarded to a candidate who has not met this minimum requirement.

2.6 *Assessment*

Regulations for assessment are governed by the Code of Assessment which is contained in the University Fees and General Information for Students section of the Calendar

Candidates shall normally be required to sit any end-of-course examination at the first diet at the end of the course concerned. A candidate who does not attend that examination at the first diet, without good cause, shall for the purposes of these regulations have the same entitlement as a candidate who attends and is awarded a zero mark.

2.7 *Re-assessment*

A candidate who is awarded a grade A, B, C, or D after the first examination diet shall not normally be allowed to resit the examination. Any other candidate entitled to sit the end-of-course examination shall be entitled to resit the examination, but normally only once and at the next available diet. The grade awarded as a result of the resit examination shall be no higher than D. Where a lower grade is achieved at the resit, the original grade will be used for the purposes of these regulations.

Notwithstanding the above, any candidate who is entitled to sit the end-of-course examination and who requires an improved grade after the first examination diet in order to meet the requirements for a degree in the same session, may resit the examination irrespective of his or her original grade, but normally only once and at the next available diet. He or she may be awarded any grade, A to G, or no grade, as a result of the resit examination, but the result shall be no lower than his or her original grade. This provision shall extend to courses totalling no more than 60 credits.

If a course has no examination, or is at level H or M, no candidate shall be entitled to resit.

Note: This regulation does not preclude the candidate from retaking an entire qualifying course under the provisions of Regulation 2.3(f).

3. *Progress of Students*

The progress of all candidates is subject to annual review.

3.1 *Full-time Candidates*

Each full-time candidate's required progress shall be defined as follows:

After one session: he or she must have completed courses totalling at least 80 credits, with a grade point average of at least 9

After two sessions: he or she must have completed courses totalling at least 200 credits, with a grade point average of at least 9

After three sessions: he or she must have completed courses totalling at least 240 credits, with a grade point average of at least 10

After four sessions: he or she must have qualified for the Degree of BSc

Individual arrangements shall apply to candidates who have been granted exemption from courses under the provisions of Regulation 1.2, or who have transferred from part-time to full-time study. Each such candidate's required progress shall be set by the Principal Adviser of Studies.

Any full-time candidate who fails to achieve the required progress shall normally be reduced to part-time study. However, no candidate who has completed 80 credits at a grade point average of at least 10 in the current session shall be suspended from full-time study.

Where a candidate has failed to achieve minimum progress requirements on more than one occasion, the Progress Committee may exclude that candidate from further study in the Faculties of Science

3.2 Part-time Candidates

Each part-time candidate's required progress shall be set by the Principal Adviser of Studies in consultation with the candidate at the start of each session.

Any part-time candidate who fails to achieve the required progress must apply to the Principal Adviser for re-admission.

3.3 Certificate of IT Competence

To be eligible for any award covered by these regulations, a candidate must have acquired the University's Certificate of Basic IT Competence by completing the course of study offered by the IT Education Unit (ITEU) or by gaining exemption from the ITEU course through one of the routes indicated in Section XXV of the Fees and General Information section of the *University Calendar*.

3.4 Administration of Progress

Any candidate who fails to meet the minimum requirements for progression will be referred to the Science Faculties Progress Committee. Mitigating circumstances should be notified in writing to the Principal Adviser for consideration by the Progress Committee during the summer vacation before the resit examination diet. Failure to offer any explanation for poor academic performance may result in a candidate being reduced to part-time study or being permanently excluded from study.

3.5 Appeals

Any candidate who has been suspended under the provisions of Regulation 3.1, 3.2 or 3.3 may appeal in writing to the Faculty, citing any special circumstances bearing on his or her case. Advice on appeals is available from the Science Faculties Clerk.

3.6 Transfers from Part-time to Full-time Study

Any part-time candidate may apply to the Principal Adviser for transfer to full-time study. In considering such an application, the Principal Adviser shall take into account the candidate's progress so far.

4. Specific Structure of Degrees and Sub-Degree Awards

4.1 Certificate of Higher Education (General Science)

To qualify for the Certificate of Higher Education (General Science), the candidate must satisfy the following requirements:

- a) He or she must have completed courses totalling at least 120 credits, with a grade point average of at least 8.5.
- b) He or she must have completed courses totalling at least 80 credits in Science, with a grade point average of at least 8.5.

4.2 Diploma of Higher Education (General Science)

To qualify for the Diploma of Higher Education (General Science), the candidate must satisfy the following requirements:

- a) He or she must have completed courses totalling at least 240 credits, with a grade point average of at least 8.5.
- b) He or she must have completed courses totalling at least 140 credits in Science, with a grade point average of at least 8.5.
- c) He or she must have completed courses totalling at least 90 credits above level 1, with a grade point average of at least 8.5 and with at least 60 of these credits in Science.

4.3 *Degree of Bachelor of Science in a Designated Subject*

The Designated Subject for the Degree of BSc shall be either one of the single subjects indicated as such in List 1(a), or one of the combinations of two subjects shown as such in List 1(b), as approved by the Faculties and Senate.

To qualify for the Degree of BSc in a Designated Subject, the candidate must satisfy the following requirements:

- a) He or she must have completed courses totalling at least 360 credits, with a grade point average of at least 10, and with at least 180 of these credits at grade D or better.
- b) The credits in (i) above must include at least 200 credits in Science.
- c) The credits in (i) above must also include at least 120 credits above level 1 in Science, with a grade point average of at least 9, and with at least 60 of these credits at grade D or better.
- d) Where the Designated Subject is a single subject, the credits in (i) above must include courses in that subject at level 3 or 3H or 3M, either totalling at least 80 credits with a grade point average of at least 10, or totalling at least 120 credits with a grade point average of at least 8.
- e) Where the Designated Subject is a combination of two subjects, the credits in (i) above must include courses at level 3 or 3H or 3M totalling at least 60 credits with a grade point average of at least 8 in each of these subjects separately.
- f) He or she must satisfy any special requirements of the Designated Subject specified by the Department and approved by the Faculties of Science.

The Degree of BSc in a Designated Subject shall be awarded with merit if the candidate has a grade point average of at least 12, or with distinction if the candidate has a grade point average of at least 14, both overall and in the Designated Subject (or Subjects in a combined degree) at level 3 or 3H or 3M. To meet this requirement, the best 80 credits may be used in the case of a Designated Degree in a single subject and the best 40 credits from each contributing subject in the case of a combined Designated Degree.

On the recommendation of the Head of Department, the degree of BSc in a Designated Subject may be awarded 'with Work Placement' to a candidate who has successfully completed the work placement year of an MSci degree. The candidate will have qualified for the award of a BSc designated degree prior to admission to the work placement year as noted in regulation 2.3(e) Admission Requirements for MSci courses, paragraph (v).

4.4 *Degree of Bachelor of Science (BSc) with Honours*

a) *Principal Subjects for BSc with Honours*

The Principal Subject for the Degree of BSc with Honours shall be either one of the single subjects shown as such in List 1(a) ('Single Honours') or one of the combinations of subjects shown as such in List 1(b) ('Combined Honours') as approved by the Faculties and the Senate.

b) *Honours Curriculum*

A curriculum for the Degree of BSc with Honours shall consist of qualifying courses together with level-3H and level-4H course(s) in the Principal Subject. The level-3H course(s) must be completed in a single session of full-time study, and the level-4H course(s) must be completed in a final session of full-time study.

c) *Honours Assessment*

The assessment of a level-4H course shall include a final examination. The final examination may cover the work of the corresponding level-3H course as well as the work of the level-4H course itself.

The assessment of a level-4H course may include a carry forward of marks from the assessment of the corresponding level-3H course, with a weight not exceeding 50%. Where a candidate has sat the examination of the level-3H course twice under the provisions of Regulation 2.7, the marks carried forward shall be those gained at the first sitting.

A candidate shall normally present himself or herself for the final examination immediately upon completion of the level-4H course. However, the Head of Department concerned may, at his or her discretion and on grounds of illness or other good cause shown, permit a candidate to delay taking his or her final examination for not more than one year.

A candidate may not, except by special permission of the Senate, present himself or herself more than once for examination in any Principal Subject, but he or she may present himself or herself, on completing the prescribed curriculum, for examination in a completely distinct Principal Subject.

d) *Single Honours*

Where the Principal Subject is a single subject, the curriculum shall include a level-3H (single) course and a level-4H (single) course in that subject.

To qualify for the Degree of BSc with Honours, the candidate must pass the assessment of the level-4H (single) course.

e) *Combined Honours*

Where the Principal Subject is a combination of subjects, the curriculum shall include a level-3H (combined) course and a level-4H (combined) course in each of the combined subjects.

To qualify for the Degree of BSc with Honours, the candidate must pass the combined assessments of the level-4H (combined) courses. The assessment of these courses shall carry equal weight, unless otherwise specified in the course entries in the *Undergraduate Course Catalogue*.

The Board of Examiners shall be entitled to set a minimum standard in either of the combined subjects to qualify the candidate for a particular class of Honours.

4.5 *Degree of Master in Science (MSci)*

a) *Principal Subjects for MSci*

The Principal Subject for the Degree of MSci shall be either one of the single subjects shown as such in List 1(a) or one of the combinations of subjects shown as such in List 1(b), as approved by the Faculties and the Senate.

b) *MSci Curriculum*

A curriculum for the Degree of MSci shall include qualifying courses together with courses at level-3H/M, level-4H/M and possibly 5M in the Principal Subject and any required MSci work placement. The courses at level-3H/M, 4H/M, 5M (where appropriate), and work placement must each be completed in a single session of full-time study.

c) *MSci Assessment*

The assessment of the MSci shall include a final examination. The final examination may cover the work of the complete MSci course or the final year alone.

The final assessment may include a carry forward from the preceding H/M courses, with a weight not exceeding the proportional credit rating of each course to the degree programme. Where a candidate has sat the examination of the level-3M course twice under the provisions of Regulation 2.7, the marks carried forward shall be those gained at the first sitting.

The assessment of an MSci shall include a project, with a weight normally not less than 10%. This requirement may be satisfied by an MSci work placement, where applicable.

A candidate shall normally present himself or herself for the final examination immediately upon completion of the final year. However, the Head of Department concerned may, at his or her discretion and on grounds of illness or other good cause shown, permit a candidate to delay taking his or her final examination for not more than one year.

d) *MSci in a Single Subject*

Where the Principal Subject is a single subject, the curriculum shall include a level-3H/M (single) course, a level-4H/M (single) and a level-5M course or work placement, as appropriate, in that subject.

e) *MSci in a Combination of Subjects*

Where the Principal Subject is a combination of subjects, the curriculum shall include a level-3H/M (combined) course and a level-4H/M (combined) course and a level-5M, as appropriate, in each of the combined subjects.

The final assessments of the combined courses shall carry equal weight, unless otherwise specified in the course entries in the *Undergraduate Course Catalogue*.

The Board of Examiners shall be entitled to set a minimum standard in either of the combined subjects to qualify the candidate for a particular class of MSci.

f) *MSci Exit Point*

For any candidate who fails to complete the final year of a 5-year MSci programme (excluding MSci degrees with work or European placement), the Board of Examiners may award a BSc honours degree, subject to the candidate's satisfying published departmental conditions for such an award, consistent with regulation 4.4 above.

4.6 *Vacation Study Programmes*

A candidate may be awarded up to 20 credits for an approved programme of vacation study undertaken in the University of Glasgow or elsewhere, provided that the vacation study is associated with a course taken by the candidate in the current or following session. The work shall be supervised by a responsible person approved by the Head of Department concerned. On completion of the work the candidate must submit a report to the Head of Department, who shall arrange for the assessment of the work and recommend to the Faculty the level, number of credits, and grade to be awarded. The period of vacation study shall normally be at least four weeks for each award of 10 credits.

NB Separate regulations apply to MSci summer projects referred to under 2.2(d).

4.7 *BSc Honours and MSci Work Placements*

The Faculties and Senate may approve a work placement scheme associated with a BSc Honours or MSci course. A work placement shall normally be worth 10 credits for each four weeks worked, excluding any holidays, but shall not in any case exceed 120 credits.

A work placement shall be undertaken in an industrial, research, or similar establishment. The Head of Department concerned shall approve a proposed work placement only if he or she is satisfied that the work to be undertaken will make

a substantial contribution to the objectives of the candidate's degree programme. The work shall be supervised by a responsible person approved by the Head of Department, and shall be monitored by a member of academic staff of the University of Glasgow nominated by the Head of Department.

4.8 Award of Certificate for Graduates studying at Undergraduate level

Any Bachelor of Science or Master in Science of the University of Glasgow or of another University approved by the University Court on the recommendation of the Senate, who has completed a course in one of the Faculties of Science and been awarded a grade, may receive a certificate to that effect, unless he or she is engaged in study for a postgraduate degree or diploma.

Any Bachelor of Science or Master in Science of the University of Glasgow may, under conditions prescribed by the Senate, be assessed for Honours in any Principal Subject and, if he or she is awarded Honours by the examiners, shall receive a certificate to that effect.

List 1(a) Single Degree Subjects

<i>Subject</i>	<i>BSc Designated Subject</i>	<i>BSc (Hons) Principal Subject</i>	<i>Msci Principal Subject</i>
Anatomy	✓	✓	✓
Animal Biology	✓		
Applied Mathematics	✓	✓	✓
Aquatic Bioscience	✓	✓	✓
Archaeological Studies	✓		
Archaeology		✓	
Biochemistry	✓	✓	✓
Biomedical Sciences	✓	✓	✓
Biomolecular Sciences	✓		
Biotechnology	✓	✓	✓
Chemical Physics	✓	✓	✓
Chemistry	✓	✓	✓
Chemistry with Forensics Studies	✓	✓	✓
Chemistry with Medicinal Chemistry	✓	✓	✓
Computing Science	✓	✓	✓
Earth Science	✓	✓	
Electronic and Software Engineering	✓	✓	
Environmental Biogeochemistry	✓	✓	
Environmental Chemistry	✓	✓	✓
Environmental Chemistry and Geography	✓	✓	
Genetics	✓	✓	✓
Geographic Information and Mapping Sciences	✓	✓	
Geography	✓	✓	
Geography, Chemistry and the Environment	✓		
Human Biology	✓		
Immunology	✓	✓	✓
Infection Biology	✓		
Mathematical Sciences	✓	✓	
Mathematical and Statistical Studies	✓		
Mathematics	✓	✓	✓
Medical Biochemistry	✓	✓	✓
Microbiology	✓	✓	✓
Molecular and Cellular Biology	✓	✓	✓
Neuroscience	✓	✓	✓
Parasitology	✓	✓	✓
Pharmacology	✓	✓	✓
Physics	✓	✓	✓
Physics with Astrophysics	✓	✓	✓
Physiology	✓	✓	✓
Physiology and Sports Science	✓	✓	✓
Physiology, Sports Science and Nutrition	✓	✓	✓
Plant Science	✓	✓	✓
Psychological Studies	✓		
Psychology		✓	
Software Engineering	✓	✓	

<i>Subject</i>	<i>BSc Designated Subject</i>	<i>BSc (Hons) Principal Subject</i>	<i>Msci Principal Subject</i>
Sports Medicine		✓	
Sports Science	✓		
Statistics	✓	✓	✓
Topographic Science	✓	✓	
Virology	✓	✓	✓
Zoology	✓	✓	✓

List 1(b) Combined Degree Subjects

<i>Subject Combination</i>	<i>BSc Designated Subject</i>	<i>BSc (Hons) Principal Subject</i>	<i>MSci Principal Subject</i>
Applied Mathematics <i>and</i> Astronomy	✓	✓	✓
Applied Mathematics <i>and</i> Business and Management		✓	
Applied Mathematics <i>and</i> Computing Science	✓	✓	✓
Applied Mathematics <i>and</i> Economics		✓	
Applied Mathematics <i>and</i> Philosophy		✓	
Applied Mathematics <i>and</i> Physics	✓	✓	✓
Applied Mathematics <i>and</i> Statistics	✓	✓	✓
Applied Mathematics <i>and</i> Zoology	✓	✓	
Archaeology <i>and</i> Earth Science	✓	✓	
Archaeology <i>and</i> Geography	✓	✓	
Astronomy <i>and</i> Mathematics	✓	✓	✓
Astronomy <i>and</i> Physics	✓	✓	✓
Biology <i>and</i> Chemistry	✓		
Chemistry <i>and</i> Mathematics	✓	✓	
Computing Science <i>and</i> Business and Management		✓	
Computing Science <i>and</i> Business Economics		✓	
Computing Science <i>and</i> Economics		✓	
Computing Science <i>and</i> Geography	✓	✓	
Computing Science <i>and</i> Mathematics	✓	✓	✓
Computing Science <i>and</i> Physics	✓	✓	
Computing Science <i>and</i> Physiology	✓	✓	
Computing Science <i>and</i> Psychology		✓	
Computing Science <i>and</i> Statistics	✓	✓	
Geography <i>and</i> Mathematics	✓	✓	
Mathematics <i>and</i> Business and Management		✓	
Mathematics <i>and</i> Economics		✓	
Mathematics <i>and</i> Philosophy		✓	
Mathematics <i>and</i> Physics	✓	✓	✓
Mathematics <i>and</i> Statistics	✓	✓	✓
Physics <i>and</i> Electronic Engineering			□
Physics <i>and</i> Music			◆
Physics <i>and</i> Philosophy			◆
Physiology <i>and</i> Psychology		✓	
Psychological and Statistical Studies	✓		
Psychology and Statistics		✓	
Statistics <i>and</i> Business and Management		✓	

◆ denotes MSci degrees available only to students admitted in session 2002-2003 or earlier

□ Available as an MSci only to students admitted in session 2002-2003 or earlier. From session 2003-2004, this degree will be available as a BSc honours.