

Course Regulations for Degrees of Bachelor and Integrated Master

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Course Regulations for Degrees of Bachelor and Integrated Master 2013-14.

(Covering the course regulations for undergraduate and integrated master's degrees of the four Faculties and elective classes for students admitted to first year with effect from session 2009/10)

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Undergraduate Study

General Regulations for degrees of Bachelor with Honours and Bachelor and Diplomas and Certificates of Higher Education

The following awards are conferred by the University by the authority of the Senate under Ordinances 3 and 5 in accordance with the General Regulations:

Bachelor of Arts (BA)
Bachelor of Education (BEd)
Bachelor of Engineering (BEng)
Bachelor of Laws (LLB)
Bachelor of Science (BSc)
Diploma of Higher Education
Certificate of Higher Education

Notes:

- 1 *Decisions on admission are taken by Course Directors, Vice-Deans or Heads of Department (or their nominee(s)).*
- 2 *All decisions taken by Boards of Study, acting on behalf of the Senate, shall subsequently be reported to the Senate.*
- 3 *All decisions taken by Boards of Examiners shall subsequently be reported to the relevant Board of Study which shall receive them on behalf of the Senate.*
- 4 *Decisions on awards are taken by Boards of Study on behalf of the Senate. The Board of Study may delegate this power by formal resolution following specific recommendation to the Senate.*
- 5 *Where reference is made in Regulations to information in Course Handbooks, that information shall have been approved by the relevant Board of Study.*
- 6 *The curriculum of every course shall comprise compulsory, optional and elective classes. These are defined as follows:
'Compulsory' refers to classes which must be taken as part of the course curriculum.
'Optional' refers to classes chosen by a student from a list defined in a course curriculum.
'Elective' refers to classes freely chosen by a student from classes offered by the University.
Optional and Elective classes may be restricted by requirements for defined prerequisites, availability and timetabling constraints (see the Class Catalogue for the detailed list of classes).
Where a class has a pre-requisite, this should be clearly stated in the Class Catalogue and in the Course Handbook.*
- 7 *The course regulations that follow quote SHE Levels. The equivalence of SHE and SCQF Levels is as follows:*

<i>SHE Level 1: SCQF Level 7</i>	<i>SHE Level 2: SCQF Level 8</i>
<i>SHE Level 3: SCQF Level 9</i>	<i>SHE Level 4: SCQF Level 10</i>
<i>SHE Level 5: SCQF Level 11</i>	

In interpreting these regulations, reference should be made, where appropriate, to Course Handbooks. Regard should also be taken of the Regulations in Part 1 of the University Calendar.

- 8 *In the unlikely event of any conflict between the Regulations and other University publications including Course Handbooks, Regulations take precedence.*

11.1 General Regulations for the Degree of Bachelor with Honours, Degree of Bachelor, Diploma of Higher Education and Certificate of Higher Education

Admission

11.1.1 Every applicant for admission to a course of study must satisfy the General Entrance Requirements as specified in Regulation 2 and any additional Course Entrance Requirements specified by the Department(s) and approved by the relevant Board of Study.

Credit Transfer and Recognition of Prior Learning (RPL)

11.1.2 The relevant Board of Study (or nominee(s)) may admit an applicant and/or approve exemption from part of a course by credit transfer and/or RPL provided this is done in accordance with University procedures and against criteria defined on a course by course basis.

Credit granted for credit transfer and/or RPL may only be used once and, when used to gain exemption, will normally relate to achievements within 5 years of registration on a University of Strathclyde course.

Exemption granted on the basis of credit transfer and/or RPL will be allowed primarily where an applicant can demonstrate that the relevant specific learning outcomes have been achieved (i.e. primarily for specific rather than general credit). The extent of any allowed exemption shall preferably not exceed 25% and shall normally not exceed 50% of the credits appropriate to the course. Exceptionally, by formal resolution, the Senate may approve up to 75% exemption in special circumstances.

Where any such exemption is granted, the Board of Study will award the appropriate number of credits and may reduce the minimum and maximum periods of study appropriately.

Modes of Study

11.1.3 Courses are offered on a full-time and/or part-time basis except where indicated to the contrary in the course regulations.

At the discretion of the relevant Board of Study on the recommendation of the relevant Course Director (or nominee), a student may transfer from full-time to part-time study and vice-versa where an appropriate course is available, at which time the relevant minimum and maximum periods of study will be reviewed.

Levels of Study

11.1.4 Unless otherwise specified in course regulations, each undergraduate course offers the following qualifications:

- Honours degree
- Ordinary degree
- Diploma of Higher Education
- Certificate of Higher Education

Minimum Periods of Study

11.1.5 The minimum period of study shall normally be as follows:

For full-time study (assuming entry at Level 1)

Award	Minimum Period of Study
Bachelor of Arts	3 years
Bachelor of Arts with Honours	4 years
Bachelor of Arts with Honours in a Modern Language	5 years
Bachelor of Arts with Honours in International Business and Modern Languages	5 years
Bachelor of Education with Honours	4 years
Bachelor of Engineering	3 years
Bachelor of Engineering with Honours	4 years
Bachelor of Laws	3 years
Bachelor of Laws in Law and a Modern Language	5 years
Bachelor of Laws with Honours	4 years
Bachelor of Science	3 years
Bachelor of Science with Honours	4 years
Diploma of Higher Education	2 years
Certificate of Higher Education	1 year

For part-time study, the minimum period of study shall be the learning equivalent of the full-time study period required, taking account of the conditions under which the student will work. The overall duration of study will normally be greater than for full-time study.

Maximum Periods of Study

11.1.6 Unless otherwise specified, the maximum periods of study shall be as follows:

For full-time study (assuming entry at Level 1)

Award	Maximum Period of Study
Extended Honours degrees	7 years
Honours degrees	6 years
Ordinary degrees	5 years
Diplomas of Higher Education	3 years
Certificates of Higher Education	2 years

For part-time study (assuming entry at Level 1)

Award	Maximum Period of Study
Extended Honours degrees	12 years
Honours degrees	10 years
Ordinary degrees	8 years
Diplomas of Higher Education	5 years
Certificates of Higher Education	3 years

Exceptionally, the maximum period of study may be extended by the Senate on the recommendation of the relevant Board of Study.

Place of Study

11.1.7 Except where the Senate has approved distance learning arrangements for off-campus delivery, instructional classes shall normally be undertaken within the University.

A student may undertake part of their study in an approved institution abroad, according to an approved curriculum. Normally only one such study period, to be taken prior to the final year of their course, is permitted.

Course Structure and Curriculum

- 11.1.8 Each candidate for an award must follow the curriculum as prescribed in the relevant course regulations. These may be amended from time to time by the Senate on the recommendation of the relevant Board of Study.
- 11.1.9 In accordance with the University Awards Framework, individual classes shall be assigned a level based on expected learning outcomes and a credit rating based on the volume of learning required.
- 11.1.10 The award structure of undergraduate courses shall normally accord with the following:

Award	Credit Requirement	Minimum Level Requirement
Certificate of Higher Education	120 credits	100 credits at Level 1
Diploma of Higher Education	240 credits	100 credits at Level 2
Ordinary Degrees	360 credits	60 credits at Level 3
Honours Degrees	480 credits	100 credits at Level 4 180 credits at Levels 3 + 4

For the avoidance of doubt, credits at a higher level shall, where necessary, be deemed to satisfy the requirements at a lower level.

(Notes:

- 1 *For a typical student, 1 credit equates to approximately 10 hours of total student effort.*
- 2 *In certain circumstances, for example to meet professional accreditation requirements, the credit requirement may exceed the above framework)*

- 11.1.11 The curriculum of every student must be approved at the start of each academic year or level of study (as appropriate) by the relevant Course Director, or equivalent, acting on behalf of the Board of Study.
- 11.1.12 Each degree course curriculum shall include elective classes amounting to no fewer than 20 credits normally taken prior to the fourth year of full-time study.
- 11.1.13 A full-time student shall in each year of study follow a curriculum containing 120 credits including any elective credits.
- 11.1.14 Notwithstanding the provisions of Regulation 11.1.13, exceptionally, additional optional classes at an appropriate level may be chosen as part of the curriculum subject to the approval of the Head of Department (or nominee) responsible for offering each class. The curriculum (of the student) shall be reported to the Board of Study.
- 11.1.15 Notwithstanding the provisions of Regulation 11.1.13, by formal resolution of the Senate, a course curriculum may exceed 120 credits in any one year.
- 11.1.16 Where a full-time student is admitted with advanced standing and is exempted from part of an academic year's curriculum, additional classes may require to be taken to bring the total credits studied to at least 120 credits.
- 11.1.17 In the first and second years of full-time study, the curriculum will normally comprise six 20 credit classes. By formal resolution of the Senate, a 20

credit class may be replaced by two 10 credit classes in the first and/or second years of any course.

In the third and fourth years of full-time study, classes in integer multiples of 20 credits may be permitted, subject to approval by the Senate.

11.1.18 A student studying on a part-time or distance learning basis shall undertake a curriculum typically of 40 – 80 credits in any year of study.

11.1.19 The curriculum for a course shall be set out in the course regulations and shall indicate which classes are compulsory or optional. Where a pass in a particular class is a necessary condition for progress or for an award, this shall be clearly stated in the relevant course regulations.

11.1.20 Notwithstanding the provisions of Regulation 11.1.11, where unlisted optional classes may be chosen as part of the curriculum, the approval of the Head of Department (or nominee) responsible for offering each class is also required.

11.1.21 The University cannot guarantee that all optional and/or elective classes will be available in any given academic year. The choice of classes may be subject to constraints of timetabling and may also be influenced by professional requirements as well as by a student's entrance qualifications or pre-requisite classes passed.

Attendance and Performance

11.1.22 Every applicant admitted to a course of study shall be required to attend regularly and to perform satisfactorily the work of each class in their curriculum.

11.1.23 A student has an obligation to inform the University Student Experience – Student Business at the first reasonable opportunity of any medical or other circumstances which might adversely affect their attendance, performance and/or ability to study.

11.1.24 A student who, in the opinion of the Head(s) of the Department(s) offering a class and the relevant Vice Dean Academic, does not satisfy the requirements as to attendance and to performance and having been informed in writing, shall not be entitled to take the examination or outstanding assessments in the subject of that class.

11.1.25 Notwithstanding Regulation 11.1.24, a registered student may subsequently be permitted by the Head of Department to take the examination or outstanding assessments in the subject of the class at the next available opportunity subject to satisfactory completion of appropriate course work.

Examinations and Assessment

All Awards

11.1.26 A student shall complete the assessments during the academic year in which the classes were undertaken unless permitted by the relevant Board of Study to postpone the assessment.

11.1.27 Taught classes shall be assessed by

- (i) coursework assignments; or
- (ii) written examinations; or
- (iii) oral examinations; or
- (iv) any combination of the above

unless specified otherwise in the relevant Course Handbook.

Except where a course includes an integrative/reflective class that will draw on work in other classes, each item of work may only be assessed in one class.

- 11.1.28 There shall normally be two diets of formal assessment (in January or in May and in August approximately) for each class at Levels 1, 2 and 3 in each academic year. However, the assessment for a class at Level 4 and above will normally be held only once in each academic year unless the relevant Board of Study decides otherwise. See Regulation 4.1.10.
- 11.1.29 Where a pass in the project or dissertation taken in the final year is required for the award of the degree, a candidate who fails to submit the project or dissertation by the due date may not be eligible to complete the remainder of the Final Year assessment.
- 11.1.30 The progress of every student shall be determined by the relevant Board of Examiners although the Board shall defer consideration of progress or award for any student currently involved in disciplinary proceedings.
- 11.1.31 A student who is deemed to have failed in a taught class at Level 1, 2 or 3 or who has been debarred in terms of Regulation 11.1.24 shall normally have one further opportunity to be re-assessed on a similar basis or by such other means as the Department(s) offering the class may decide. The nature of re-assessment to be applied to all students shall be identified in Course Handbooks.
Unless prior authority of the relevant Board of Study has been given, a student who fails to satisfy the Board of Examiners at the first assessment for a class shall undertake re-assessment at the first available opportunity.
- 11.1.32 At the discretion of the relevant Board of Examiners or appropriate Course Director, students may be required to participate in an oral examination. Exceptionally, this may be in place of the normal assessment for the relevant class(es). Not that regulations 11.1.31 and 11.1.32 do not permit a borderline candidate to be given an oral examination by an External Examiner.
- 11.1.33 Notwithstanding the provisions of Regulation 11.1.31, the Board of Examiners may exceptionally permit alternative forms of re-assessment for a class where they consider it to be in a student's interest.
- 11.1.34 Notwithstanding the provisions of Regulation 11.1.31, the Board of Examiners may permit a student who satisfies the attendance and performance requirements of a class a maximum of two further attempts at passing the class. The Board of Examiners may additionally require a student to re-attend a class.
- 11.1.35 Notwithstanding the provisions of Regulation 11.1.31, the relevant Board of Study acting on the recommendation of the Board of Examiners may discount an attempt for a class where appropriate medical or other evidence has been provided.
- Bachelor with Honours*
- 11.1.36 Notwithstanding the provisions of Regulations 11.1.28 and 11.1.31, a candidate for the degree of Bachelor with Honours who has taken the Final Year assessment will be permitted to re-take specific classes of the Final Year assessment to satisfy professional accreditation requirements. In these circumstances the Honours classification will be based solely on the student's first attempt at the assessment.
- 11.1.37 Notwithstanding the provisions of Regulations 11.1.28 and 11.1.31, a candidate for the degree of Bachelor with Honours who has taken either the whole or part of the Final Year assessment will be permitted to be re-assessed, in whole or in part, where there are medical, personal or other circumstances which have adversely affected the student's performance. In

these circumstances, permission may be granted by the Honours Board of Examiners concerned, subject to a report of any such cases to the relevant Board of Study.

Award of Credits

11.1.38 When considering the awarding of credits, the relevant Board of Examiners will have regard to the requirements of Regulation 1.10.35 concerning examination marks and compensation.

11.1.39 The relevant Board of Examiners shall award credits as follows:

(i) in years 1 – 3, the number of credits for classes passed at Levels 1, 2 and 3;

(ii) in subsequent years, credits corresponding to the classes completed.

The relevant Board of Examiners shall award Merit or Distinction to a full-time student as follows:

(i) Merit will be applied where a student has achieved a credit-weighted average of 60-69% in their first attempt having passed all examinations.

(ii) Distinction will be applied in Years 1-3 where a student has achieved a credit weighted average of 70% or more at the first attempt having passed all exams.

For the avoidance of doubt a pass by compensation shall be regarded as a pass but with no to the credit weighted average.

Progress of Students

11.1.40 To proceed to the next year of a course, a full-time student must normally accumulate the minimum number of credits in accordance with the following general framework:

Progression	Minimum Number of Credits Required
First – Second Year	100
Second – Third Year	220
Third – Fourth Year	360

In order to progress to the fourth year of a course, a student, in addition, must achieve an approved standard of performance with regard to level of study and academic attainment as specified in the Course Handbook.

Individual courses may specify minimum credit numbers greater than those given above in which case these shall be given in the relevant course regulations.

11.1.41 Exceptionally, the relevant Board of Study acting on the recommendation of the Board of Examiners may allow a student to proceed to the next year of their course with fewer credits than specified in Regulation 11.1.40 or in the higher progress requirements stated in that student's course regulations, although only for good cause shown.

11.1.42 A student studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits. More detailed progress regulations may be specified in individual course regulations.

A student studying on a part-time basis shall not normally proceed to the next year of study with more than 20 credits outstanding.

11.1.43 A student who meets the criteria for progress from one academic year to another may not necessarily be eligible for an award.

Transfer of Registration, Suspension and Withdrawal

- 11.1.44 Where a candidate registered for the degree of Bachelor with Honours or degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education has failed to satisfy the relevant Board of Examiners, the Board of Study, in accordance with the recommendation of the Board of Examiners, may
- (i) require that registration be transferred to a degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education (as appropriate) subject to a related course being available; or
 - (ii) recommend the award of a degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education (as appropriate); or
 - (iii) suspend a student from attendance at classes but require them to undertake assessments until the required number of credits and necessary passes have been obtained to allow the student to proceed to the next year of the course; or
 - (iv) terminate the student's registration and require the student to withdraw.
- 11.1.45 Where a candidate registered for the degree of Bachelor with Honours, degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education has satisfied the relevant Board of Examiners but requests transfer to a degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education, the Board of Study, in accordance with the recommendation of the relevant Head of Department or Course Director or Board of Examiners, may
- (i) permit registration to be transferred to a degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education (as appropriate) subject to a related course being available; or
 - (ii) recommend the award of a degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education (as appropriate).
- 11.1.46 On the recommendation of the relevant Course Director (or nominee), the Board of Study may approve transfer of a student's registration between
- (i) Certificate of Higher Education;
 - (ii) Diploma of Higher Education;
 - (iii) the degree of Bachelor;
 - (iv) the degree of Bachelor with Honours
- as appropriate, subject to a related course being available.
The Board of Study may also approve transfer of a student's registration to an Integrated Masters degree, subject to a related course being available.
- 11.1.47 On the recommendation of the relevant Course Director (or nominee), the relevant Vice Dean Academic may permit a student to either undertake voluntary suspension for the whole or part of an academic year or transfer between full-time and part-time study where available.
- 11.1.48 Notwithstanding the provisions of Regulation 11.1.31, a student who is reported to the relevant Board of Study under Regulation 11.1.24 or Regulation 5.4.2(iv) for persistent non-attendance at classes, in accordance with published Faculty procedures, may have their registration terminated and be required to withdraw from the course.
- 11.1.49 A student may also be required to withdraw from a course as a consequence of academic dishonesty or unprofessional conduct. Such a decision would be taken in consequence of a disciplinary hearing as provided for in Regulation 5.

Classification of Honours Degree

11.1.50 A student entitled to the degree of Bachelor with Honours will be placed in one of the following classes:

First Class

Second Class (Upper Division)

Second Class (Lower Division)

Third Class

In reaching their decision, the relevant Board of Examiners shall have regard to a student's performance against approved criteria and consider the composite mark against the following general framework:

Classification	Composite Mark
First Class	70 -100
Second Class (Upper Division)	60 - 69
Second Class (Lower Division)	50 - 59
Third Class	40 - 49

11.1.51 A candidate for the degree of Bachelor with Honours who has failed to be placed in one of the classes specified in Regulation 11.1.50 may be transferred to the degree of Bachelor in accordance with Regulation 11.1.44 and may be granted exemption either in whole or in part from the assessments required for that degree. The exemption will only be granted when, in the opinion of the Board of Examiners, evidence of sufficient attainment has been provided.

Appeals Against Transfer of Registration, Suspension, Withdrawal and Degree Classification

11.1.52 A student who has been

- (i) required to transfer registration; or
- (ii) suspended from attendance at classes; or
- (iii) required to withdraw

under the provisions of Regulations 11.1.24, 11.1.44 and 11.1.48 may appeal to the relevant Board of Study for reconsideration of the case.

11.1.53 A student may appeal to the relevant Board of Study for reconsideration of the class of Honours awarded. Such an appeal must be submitted and the outcome of any such appeal must be decided upon before the student graduates.

11.1.54 The grounds for appeals under Regulations 11.1.52 and 11.1.53 may be any of the following:

- (i) that there were procedural irregularities in the conduct of the examination or of the assessment (including alleged administrative error of such a nature as to cause reasonable doubt as to whether the Board of Examiners would have reached the same conclusion if the alleged error had not been made); or
- (ii) that there were medical, personal or other circumstances affecting the student's performance of which the Board of Examiners were not aware when their decision was taken (an Appeals Board will take into account whether a student has met the obligations of Regulation 11.1.23); or

- (iii) that there was inadequate assessment, prejudice or bias on the part of one or more of the examiners.

Such an appeal shall be lodged in writing with the relevant Faculty Officer no later than a date specified by the Board of Study and notified in the letter informing the student of the transfer of registration or suspension or the requirement to withdraw or the degree classification. The appeal shall be supported by appropriate documentary evidence not previously available.

- 11.1.55 A student has an ultimate right of appeal to the Senate normally following an unsuccessful appeal to the relevant Board of Study. Such an appeal shall be lodged in writing with the Head of Governance, Management and Policy Team within three weeks of the date on the Faculty Appeal outcome letter and shall be supported by all the appropriate documentary evidence. The student will have a right of appearance, either alone or accompanied by one person, at the hearing of the appeal to the Senate.

Award

- 11.1.56 In order to qualify for a University of Strathclyde award, a candidate who has been granted exemption from earlier years of a University of Strathclyde course through credit transfer or RPL (in accord with Regulation 11.1.2) must gain from the University of Strathclyde course curriculum a minimum of 120 credits or, where less, a minimum of one-third of the overall credit requirement for that award. In addition, a candidate must comply with the requirements of Ordinance 3.4.3.

- 11.1.57 A candidate who satisfies the conditions of the Ordinances governing the award of degrees and of the general and course regulations shall, on payment of the required fees, be entitled to receive the degree of Bachelor with Honours or degree of Bachelor. To qualify for the award of the degree a candidate must have obtained passes in classes at all levels of the curriculum as specified in the course regulations. The graduate shall receive a degree parchment setting forth the course of study in which the degree has been granted and, if appropriate, the class and division of Honours in which the graduate has been placed. A Diploma Supplement will also be provided.

- 11.1.58 A candidate who satisfies the conditions of the general and course regulations shall be entitled to receive a Diploma of Higher Education or the Certificate of Higher Education.

- 11.1.59 A candidate who satisfies the requirements of the general and course regulations governing the award of the degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education and who has, in the opinion of the relevant Board of Examiners and according to prescribed criteria, attained a high level of overall performance may be granted the appropriate award 'with Merit' or 'with Distinction'. In reaching their decision, Boards of Examiners shall have regard to a student's performance based on the credit-weighted average over the full course. For students registered from session 2010/11 the credit-weighted average for Merit is 60-69% and for 'with Distinction' is 70 – 100%.

- 11.1.60 A student on a course that has multiple exit points (e.g. Certificate of Higher Education, Diploma of Higher Education, degree of Bachelor, degree of Bachelor with Honours) may only retain one of the possible awards.

11.2
to 11.9

(Numbers not used)

For Information:

The following Course Regulations should be read in conjunction with the above General Regulations, and other University publications.

Faculty of Science

11.10 Faculty Courses

Natural Sciences

BSc with Honours in Natural Sciences

BSc with Honours in Natural Sciences (named subjects)

BSc in Natural Sciences

BSc in Natural Sciences (named subjects)

Diploma of Higher Education in Natural Sciences

Certificate of Higher Education in Natural Sciences

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.10.1 All students are normally admitted as potential Honours students. Transfer to another degree course in the Faculty of Science may be possible subject to satisfying the appropriate course requirements.

Mode of Study

- 11.10.2 The courses are available by full-time or part-time study.

Transfer

- 11.10.3 Students registered on a course administered by a department in the Faculty of Science may be considered at any stage for transfer to the Natural Sciences courses subject to satisfying the appropriate course regulations.

Curriculum

- 11.10.4 The curriculum comprises classes selected from the following categories:

Science classes:

(i) those classes taught by a department in the Faculty of Science;

and

(ii) other classes taken as compulsory or optional classes by students registered for a degree administered by a department in the Faculty of Science.

Non-Science classes

All other classes in the University.

Elective classes

Curriculum (Full-time study)

First Year

- 11.10.5 All full-time students shall undertake classes amounting to at least 120 credits at Level 1 including no fewer than 80 credits of Science classes and no fewer than 20 credits of elective classes.

Second Year

- 11.10.6 All full-time students shall normally undertake classes amounting to at least 120 credits, of which at least 100 are Science classes at Level 2 or above.

Third Year

11.10.7 *For students intending to obtain an Ordinary Degree:* All full-time students will normally take classes amounting to at least 120 credits, of which at least 60 are Science classes at Level 3 or above.

For students intending to obtain an honours degree: All full-time students will normally take classes amounting to at least 120 credits, of which at least 80 are Science classes at Level 3 or above.

Fourth Year

11.10.8 All full-time students will normally take classes amounting to at least 120 credits, of which at least 100 are Science classes at Level 4.

Curriculum (Part-time study)

11.10.9 Students studying on a part-time basis will normally take classes amounting to at least 60 credits in each year, subject to the approval of the Course Director.

Progress (Full-time study)

11.10.10 In order to progress to the second year, a student must have accumulated 100 credits from the course curriculum.

11.10.11 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum, of which at least 80 credits must be at Level 2 or above.

11.10.12 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum, of which at least 80 credits must be at Level 3 or above.

11.10.13 A student who has not obtained the credits in a class shall not normally be permitted to attend a sequential class in the same subject.

Progress (Part-time study)

11.10.14 Students studying on a part-time basis must normally satisfy the appropriate progress requirements for full-time study on completion of each equivalent year of full-time study.

11.10.15 Within each year of study, a student must normally have gained all but a maximum of 20 credits from the curriculum for which they were registered.

Final Honours Classification

11.10.16 The final Honours classification for the degree of BSc in the chosen course will normally be based on:

- (i) the first assessed attempt at the approved classes that are taken in the third and fourth years;
- (ii) if appropriate, an oral examination.

Award

11.10.17 The degree may be awarded either as the BSc in Natural Sciences or as the BSc in Natural Sciences (named subjects).

11.10.18 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Natural Sciences, a candidate must have accumulated no fewer than 480 credits from the course curriculum of which at least 270 credits shall come from Science classes. The Science classes must include a minimum of 80 credits at Level 3 and a minimum of 100 credits at Level 4.

- 11.10.19 In order to qualify for the award of the degree of BSc with Honours in Natural Sciences (named subjects), a candidate must have accumulated no fewer than 480 credits from the course curriculum of which at least 340 credits shall come from Science classes. The Science classes must include a minimum of 80 credits at Level 3 and a minimum of 100 credits at Level 4 in the subjects of the named degree.
- 11.10.20 **BSc:** In order to qualify for the award of the degree of BSc in Natural Sciences, a candidate must have accumulated no fewer than 360 credits from the course curriculum of which at least 180 credits shall come from Science classes. The Science classes must include a minimum of 100 credits at Level 2 and a minimum of 60 credits at Level 3.
- 11.10.21 In order to qualify for the award of the degree of BSc in Natural Sciences (named subjects), a candidate must have accumulated no fewer than 360 credits from the course curriculum of which at least 250 credits shall come from Science classes. The Science classes must include a minimum of 100 credits at Level 2 and a minimum of 60 credits at Level 3 in the subjects of the named degree.
- 11.10.22 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Natural Sciences, a candidate must have accumulated no fewer than 240 credits from the course curriculum. These must include 160 credits from Science classes of which a minimum of 100 must be at Level 2 or above.
- 11.10.23 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Natural Sciences, a candidate must have accumulated no fewer than 120 credits.
- 11.11 (Numbers not used)

11.12 Department of Pure and Applied Chemistry

Chemistry

BSc with Honours in Chemistry

BSc with Honours in Chemistry with Analytical Chemistry

BSc with Honours in Forensic Chemistry

BSc in Chemistry

Diploma of Higher Education in Chemical Sciences

Certificate of Higher Education in Chemical Sciences

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.12.1 All students are normally admitted in the first instance to the MChem degrees (See Regulation 12.12). Transfer between the degrees is possible prior to the third year of study, subject to satisfying the appropriate progress requirements.

Mode of Study

- 11.12.2 The courses are available by both full-time and part-time study.

Place of Study

- 11.12.3 The courses may include placement normally outwith the campus.

Curriculum

First Year

- 11.12.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 106	Chemistry: Principles and Practice 1	1	20
CH 107	Chemistry: Principles and Practice 2	1	20
CH 108	Practical and Transferable Skills	1	20
MM 116	Mathematics 1C	1	20
and either			
PH 151	Mechanics, Optics and Waves	1	20
or			
BM 102	Molecular Bioscience	1	20
or for students lacking a pass in SQA Higher Physics (or an equivalent qualification)			
PH 166	Foundation Physics	1	20
Elective Class(es)			20

Second Year

- 11.12.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 202	Inorganic Chemistry	2	20
CH 205	Practical Physical and Applied Chemistry	2	20
CH 208	Fundamental Organic Chemistry	2	20

CH 212	Physical Chemistry 1	2	20
CH 213	Forensic Trace Analysis and Analytical Chemistry	2	20
CH 214	Practical Organic and Inorganic Chemistry	2	20

Third Year

11.12.6 All students shall undertake classes amounting to 120 credits as follows:

BSc with Honours Degree Courses

Compulsory Classes		Level	Credits
CH 309	Physical Chemistry 2	3	20
CH 315	Practical Organic and Inorganic Chemistry	3	20
CH 325	Intermediate Organic Chemistry and Spectroscopy	3	20
CH 326	Inorganic Chemistry, Structures and Spectroscopy	3	20

together with classes appropriate to the chosen course:

Chemistry

40 credits including one theory class and one associated practical class chosen from:

CH 314	Practical Physical, Applied and Drug Discovery Chemistry	3	20
CH 323	Chemical Biology	3	20

OR

CH 313	Practical Physical, Applied, Forensic and Analytical Chemistry	3	20
CH 316	Analytical Chemistry and Drugs of Abuse	3	20

Students can only choose CH 3ZZ if they already have BM 102 Molecular Bioscience

Chemistry with Analytical Chemistry/Forensic Chemistry

CH 313	Practical Physical, Applied, Forensic and Analytical Chemistry	3	20
CH 316	Analytical Chemistry and Drugs of Abuse	3	20

BSc Degree Course

Chemistry

120 credits chosen from:

CH 322	Techniques in Practical Chemistry	3	20
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Other Level 3 classes listed above or such other classes approved by the Course Director to bring the amount studied at Level 3 to at least 60 credits.

Fourth Year

11.12.7 All students shall undertake classes amounting to 120 credits as follows:

		Level	Credits
<i>Chemistry</i>			
CH 438	BSc with Honours in Chemistry	4	120

Forensic Chemistry

CH 439	BSc with Honours in Forensic Chemistry	4	120
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Chemistry with Analytical Chemistry

CH 448	BSc with Honours in Chemistry with Analytical Chemistry	4	120
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Each of the above classes comprises:

CH 412	Core Chemistry	4	40
CH 436	Honours Project and Dissertation	4	40
CH 437	Career Skills	4	20

together with a class in the relevant subject area:

either

CH 413	Chemistry Specialisation	4	20
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or

CH 414	Forensic Chemistry Specialisation	4	20
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or

CH 417	Analytical Chemistry Specialisation	4	20
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Curriculum (Part-time study)

11.12.8 Part-time students will normally take classes amounting to 60 credits in each year of study.

Progress

11.12.9 In order to progress to the second year of the chosen course, a student must have accumulated at least 100 credits from the course curriculum including normally those for the classes *CH 106 Chemistry: Principles and Practice 1*, *CH 107 Chemistry: Principles and Practice 2* and *CH 108 Practical and Transferable Skills*.

11.12.10 In order to progress to the third year of the chosen course, a student must have accumulated at least 220 credits from the course curriculum including normally 100 at Level 2 from Chemistry classes in the second year curriculum.

11.12.11 In order to progress to the fourth year of the chosen course, a student must have accumulated at least 360 credits from the course curriculum including at least 60 at Level 3 from the compulsory Chemistry classes in the third year curriculum.

Final Honours Classification

11.12.12 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *CH 438* or *CH 439* or *CH 448* as appropriate.

11.12.13 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes which are taken in the third and fourth year of the course;
- (ii) if appropriate, an oral examination.

Award

11.12.14 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in the chosen course, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

- 11.12.15 **BSc:** In order to qualify for the award of the degree of BSc in Chemistry, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.12.16 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Chemical Sciences, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.12.17 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Chemical Sciences, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.12.18
to 11.12.20 (Numbers not used)

Chemistry with Drug Discovery

BSc with Honours in Chemistry with Drug Discovery

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Course

- 11.12.21 All students are admitted in the first instance to the MChem in Chemistry with Drug Discovery. Transfer between the degrees offered by the Department of Pure and Applied Chemistry may be possible prior to the third year of study subject to satisfying the appropriate progress requirements.

Mode of Study

- 11.12.22 The course is available by both full-time and part-time study.

Place of Study

- 11.12.23 The course may include placement normally outwith the campus.

Curriculum

First Year

- 11.12.24 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 102	Molecular Bioscience	1	20
CH 106	Chemistry: Principles and Practice 1	1	20
CH 107	Chemistry: Principles and Practice 2	1	20
CH 109	Practical and Transferable Skills for Drug Discovery	1	10
MM 116	Mathematics 1C	1	20
MP 117	Molecular Properties	1	20
Elective Class			10

Second Year

- 11.12.25 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CH 202	Inorganic Chemistry	2	20

CH 205	Practical Physical and Applied Chemistry	2	20
CH 208	Fundamental Organic Chemistry	2	20
CH 212	Physical Chemistry 1	2	20
CH 214	Practical Organic and Inorganic Chemistry	2	20
CH 217	Physical and Quantitative Analytical Chemistry	2	20
MP 217	Pharmaceutics	2	20

Elective Class 10

Third Year

11.12.26 All students shall undertake classes amounting to no fewer than 120 credits as follows:

Compulsory Classes		Level	Credits
CH 309	Physical Chemistry 2	3	20
CH 314	Practical Physical, Applied and Drug Discovery Chemistry	3	20
CH 315	Practical Organic and Inorganic Chemistry	3	20
CH 323	Chemical Biology	3	20
CH 325	Intermediate Organic Chemistry and Spectroscopy	3	20
CH 326	Inorganic Chemistry, Structures and Spectroscopy	3	20

Fourth Year

11.12.27 All students shall undertake classes amounting to no fewer than 120 credits as follows:

		Level	Credits
CH 449	BSc with Honours in Chemistry with Drug Discovery	4	120

CH 449 comprises:

CH 412	Core Chemistry	4	40
CH 436	Honours Project and Dissertation	4	40
CH 437	Career Skills	4	20
CH 442	Drug Discovery Specialisation	4	20

Curriculum (Part-time study)

11.12.28 Part-time students will normally take classes amounting to 60 credits in each year of study.

Progress

11.12.29 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum including normally those for the classes *CH 106 Chemistry: Principles and Practice 1*, *CH 107 Chemistry: Principles and Practice 2* and *CH 108 Practical and Transferable Skills for Drug Discovery*.

11.12.30 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including normally 100 at Level 2 from Chemistry classes in the second year curriculum.

11.12.31 In order to progress to the fourth year of the course, a student must normally have accumulated at least 360 credits from the course curriculum including 60 at Level 3 from the Chemistry classes in the third year curriculum.

Final Honours Classification

11.12.32 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *CH 449*

11.12.33 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes which are taken in the third and fourth year of the course;
- (ii) if appropriate, an oral examination.

Award

11.12.34 **BSc with Honours:** Notwithstanding the requirements of Regulation 11.1.10, in order to qualify for the award of the degree of BSc with Honours in Chemistry with Drug Discovery, a candidate must have accumulated no fewer than 490 credits from the course curriculum.

Transfer

11.12.35 A candidate who fails to satisfy the progress or award requirements for the degree may be transferred to the degree of BSc in Chemistry.

11.12.36

to 11.12.40 (Numbers not used)

Applied Chemistry

BSc with Honours in Applied Chemistry

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Course

11.12.41 All students are normally admitted in the first instance to the degree of MSci in Applied Chemistry and Chemical Engineering (see Regulation 12.30). Transfer between the degrees offered by the Departments of Pure and Applied Chemistry and Chemical and Process Engineering may be possible subject to satisfying the appropriate progress requirements.

Mode of Study

11.12.42 The course is available by both full-time and part-time study.

First Year Curriculum

11.12.43 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CH 106	Chemistry: Principles and Practice 1	1	20
CH 108	Practical and Transferable Skills	1	20
CP 103	Basic Principles in Chemical Engineering, Thermodynamics and Maths Bridging	1	20
CP 102	Chemical Engineering: Fundamentals, Techniques and Tools	1	20

MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20
Elective Class			10

Second Year Curriculum

11.12.44 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CH 208	Fundamental Organic Chemistry	2	20
CH 212	Physical Chemistry 1	2	20
CH 218	Practical Organic, Inorganic and Physical Chemistry and Safety	2	20
CP 204	Fluid Flow and Heat Transfer	2	20
CP 207	Process Analysis and Statistics	2	20
MM 211	Mathematics 3B	2	20
Elective Class			10

Third Year Curriculum

11.12.45 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 306	Practical Preparative and Physical Chemistry	3	20
CH 324	Inorganic Chemistry	3	20
CH 325	Intermediate Organic Chemistry and Spectroscopy	3	20
CP 302	Mass Transfer and Separation Processes	3	20
CP 304	Reactors and Chemical Engineering Practice	3	20
CP 306	Chemical Engineering Design and Advanced Information Technology	3	20

Fourth Year Curriculum

11.12.46 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 430	BSc with Honours in Applied Chemistry	4	120
<i>CH 430</i> comprises:			
Compulsory Classes			
CH 435	Applied Chemistry Project	4	40
CP 405	Process Control and Environmental Technology	4	20
CP 408	Chemical Engineering Design (BSc)	4	40
Optional Classes			
20 credits chosen from			
CH 460	Physical Chemistry 2	4	20
CH 461	Inorganic Chemistry, Structures and Spectroscopy	4	20

Curriculum (Part-time study)

11.12.47 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

11.12.48 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.12.49 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including normally at least 100 at Level 2.

11.12.50 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including normally at least 60 at Level 3.

Final Honours Classification

11.12.51 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under class code *CH 430*.

11.12.52 The final classification for the degree of BSc with Honours in Applied Chemistry will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes taken in the third and fourth year;
- (ii) if appropriate, an oral examination.

Award

11.12.53 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Applied Chemistry, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

Transfer

11.12.54 A candidate who fails to satisfy the progress or award requirements for the degree may be transferred to the degree of BSc in Chemistry.

11.13 Department of Computer and Information Sciences

Business Information Systems

BSc with Honours in Business Information Systems

BSc in Business Information Systems

Diploma of Higher Education in Business Information Systems

Certificate of Higher Education in Business Information Systems

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.13.1 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.13.2 The courses are available by full-time study only.

Curriculum

First Year

11.13.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 103	Machines, Languages and Computation	1	20
CS 104	Information and Information Systems	1	20
CS 105	Programming Foundations	1	20
CS 106	Computer Systems and Organisation	1	20
CS 109	Topics in Computing 1	1	10
MS 151	Harnessing Technology for Business	1	20
Elective Class			10

Second Year

11.13.4 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
CS 207	Advanced Programming	2	20
CS 209	User and Data Modelling	2	20
CS 210	Computer Systems and Architecture	2	20
CS 211	Professional Issues in Computing	2	10
MS 204	Technological and Organisation Innovation	2	20
MS 206	Management of Business Processes	2	20
Elective Class			10

Third Year

11.13.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 308	Building Software Systems	3	20
CS 309	Computer Graphics	3	20

CS 312	Web Applications Development	3	20
CS 313	Computer Systems and Concurrency	3	20
MS 308	Working in Today's Virtual World	3	20

Either

MS 306	Information Systems Support for Managers	3	20
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Or

MS 307	Knowledge Management	3	20
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Fourth Year

11.13.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
CS 417	Business Information Systems*	4	80
CS 408	Individual Project	4	40

*CS 417 *Business Information Systems* comprises:

80 credits chosen from:

CS 409	Software Architecture and Design	4	20
CS 412	Information Access and Mining	4	20
CS 413	Embedded Systems	4	20
CS 414	Digital Forensics	4	20

Up to 40 credits of Level 4 Management Science (Business Technology) classes, as approved by the Course Director.

Such other Level 4 classes as may be approved by the Course Director.

Progress

11.13.7 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum which must include a non-compensated Pass for the class *CS 105 Programming Foundations*.

11.13.8 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including at least 100 credits at Level 2 which must include a non-compensated Pass for the class *CS 207 Advanced Programming*.

11.13.9 In order to progress to the fourth year of the Honours degree course, a student must normally have accumulated at least 360 credits from the course curriculum including at least 100 credits at Level 3.

Final Honours Classification

11.13.10 On successful completion of the fourth year, a candidate will be awarded 80 Level 4 credits under the class code *CS 4UU Business Information Systems*.

11.13.11 The final Honours classification will normally be based on:

- (i) the first assessed attempt at all classes taken at Levels 3 and 4;
- (ii) if appropriate, an oral examination.

- Award**
- 11.13.12 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Business Information Systems, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 200 credits at Levels 3 and 4 of which a minimum of 100 credits must be at Level 4 and must include those for the class *CS 408 Individual Project*.
- 11.13.13 **BSc:** In order to qualify for the award of the degree of BSc in Business Information Systems, a candidate must have accumulated no fewer than 360 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 100 credits at Level 3.
- 11.13.14 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Business Information Systems, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.13.15 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Business Information Systems, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.13.16
to 11.13.20 (Numbers not used)

Computer Science

BSc with Honours in Computer Science
BSc in Computer Science
Diploma of Higher Education in Computer Science
Certificate of Higher Education in Computer Science

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.13.21 All students are normally admitted in the first instance as potential Honours students. Transfer to the MEng in Computer Science is possible prior to the second year of study subject to satisfying the appropriate progress requirements.

Mode of Study

- 11.13.22 The courses are available by full-time study only.

Curriculum

First Year

- 11.13.23 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 103	Machines, Languages and Computation	1	20
CS 104	Information and Information Systems	1	20
CS 105	Programming Foundations	1	20
CS 106	Computer Systems and Organisation	1	20
CS 110	Combinatorics for Computer Science 1	1	10
CS 109	Topics in Computing 1	1	10

MS 103	Introduction to Business Technology	1	10
	Elective Class		10

Second Year

11.13.24 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
CS 207	Advanced Programming	2	20
CS 208	Logic and Algorithms	2	20
CS 209	User and Data Modelling	2	20
CS 210	Computer Systems and Architecture	2	20
CS 211	Professional Issues in Computing	2	10
CS 212	Topics in Computing 2	2	10
CS 215	Combinatorics for Computer Science 2	2	10
	Elective Class		10

Third Year

11.13.25 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 308	Building Software Systems	3	20
CS 313	Computer Systems and Concurrency	3	20
Optional Classes			
80 credits chosen from:			
CS 309	Computer Graphics	3	20
CS 310	Foundations of Artificial Intelligence	3	20
CS 311	Programming Language Definition and Implementation	3	20
CS 312	Web Applications Development	3	20
CS 316	Functional Programming	3	20

Fourth Year

11.13.26 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 418	Computer Science*	4	80
CS 408	Individual Project	4	40

*CS 18 Computer Science comprises:

80 credits chosen from:			
CS 409	Software Architecture and Design	4	20
CS 410	Advanced Functional Programming	4	20
CS 411	Theory of Computation	4	20
CS 412	Information Access and Mining	4	20
CS 413	Embedded Systems	4	20

Such other Level 4 classes as may be approved by the Course Director.

Progress

- 11.13.27 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum which must include a non-compensated Pass for the class *CS 105 Programming Foundations*.
- 11.13.28 In order to progress to the third year of the course, a student must have accumulated 220 credits from the course curriculum including at least 100 credits at Level 2 which must include a non-compensated Pass for the class *CS 207 Advanced Programming*.
- 11.13.29 In order to progress to the fourth year of the Honours degree course, a student must have accumulated at least 360 credits from the course curriculum including at least 100 credits at Level 3.

Final Honours Classification

- 11.13.30 On successful completion of the fourth year, a candidate will be awarded 80 Level 4 credits under the class code *CS 4VV Computer Science*.
- 11.13.31 The final Honours classification will normally be based on:
 (i) the first assessed attempt at all classes taken at Levels 3 and 4;
 (ii) if appropriate, an oral examination.

Award

- 11.13.32 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Computer Science, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 200 credits at Levels 3 and 4 of which a minimum of 100 must be at Level 4 and must include those for the class *CS 408 Individual Project*.
- 11.13.33 **BSc:** In order to qualify for the award of the degree of BSc in Computer Science, a candidate must have accumulated no fewer than 360 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 100 credits at Level 3.
- 11.13.34 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Computer Science, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.13.35 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Computer Science, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.13.36
 to 11.13.40 (Numbers not used)

Computer Science with Law

BSc with Honours in Computer Science with Law

BSc in Computer Science with Law

Diploma of Higher Education in Computer Science with Law

Certificate of Higher Education in Computer Science with Law

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.13.41 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.13.42 The courses are available by full-time study only.

Curriculum

First Year

11.13.43 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CS 104	Information and Information Systems	1	20
CS 105	Programming Foundations	1	20
CS 106	Computer Systems and Organisation	1	20
M9 113	Law and Society	1	20
M9 114	Legal Methods	1	20
M9 115	Legal Process	1	20
Elective Class			10

Second Year

11.13.44 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CS 207	Advanced Programming	2	20
CS 209	User and Data Modelling	2	20
CS 210	Computer Systems and Architecture	2	20
M9 112	Voluntary Obligations: Contract and Promise	1	20
M9 209	Commercial Law	2	20
M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20
Elective Class			10

Third Year

11.13.45 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 308	Building Software Systems	3	20
CS 312	Web Applications Development	3	20

M9 314	Intellectual Property	3	20
M9 352	Internet Law	3	20

Optional Classes

40 credits chosen from:

CS 309	Computer Graphics	3	20
CS 313	Computer Systems and Concurrency	3	20
M9 116	Public Law 1*	1	20

Such other classes as may be approved by the Course Director.

* Students wishing to take advantage of Credit Transfer for the degree of LLB under regulation 11.128.61 must take the class *M9 116 Public Law 1*.

Fourth Year

11.13.46

All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
CS 419	Computer Science with Law*	4	80

*CS 419 *Computer Science with Law* comprises:

CS 408	Individual Project	4	40
M9 426	Computer Law	4	20

and Optional classes amounting to 60 credits so that the curriculum contains at least 20 and no more than 40 credits of Level 4 Computer Science Classes chosen from those listed in Regulation 11.13.26, and no more than 40 credits of Level 4 Law Classes chosen from those classes listed in Regulation 11.128.7.

* Students wishing to take advantage of Credit Transfer for the degree of LLB under Regulation 11.128.61 must take the class *M9 404 Issues in Intellectual Property Law*.

Progress

11.13.47 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum which must include a non-compensated Pass for the class *CS 105 Programming Foundations*.

11.13.48 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including normally at least 100 credits of compulsory second year classes which must include a non-compensated Pass for the class *CS 207 Advanced Programming*.

11.13.49 In order to progress to the fourth year of the Honours degree course, a student must have accumulated at least 360 credits from the course curriculum including at least 100 credits at Level 3.

Final Honours Classification

11.13.50 On successful completion of the fourth year, a candidate will be awarded 80 Level 4 credits under the class code *CS 419 Computer Science with Law*.

- 11.13.51 The final Honours classification will normally be based on:
- (i) the first assessed attempt at classes taken at Levels 3 and 4;
 - (ii) if appropriate, an oral examination.

Award

- 11.13.52 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Computer Science with Law, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 200 credits at Levels 3 and 4 of which a minimum of 100 must be at Level 4 and must include those for the class *CS 408 Individual Project*.
- 11.13.53 **BSc:** In order to qualify for the award of the degree of BSc in Computer Science with Law, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.13.54 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Computer Science with Law, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.13.55 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Computer Science with Law, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.13.56
to 11.13.60 (Numbers not used)

Software Engineering

BSc with Honours in Software Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Course

- 11.13.61 This degree is available only as an Honours degree.

Mode of Study

- 11.13.62 The course is available by full-time study only.

Place of Study

- 11.13.63 The course includes placement out with the University campus.

Curriculum

First Year

- 11.13.64 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 103	Machines, Languages and Computation	1	20
CS 104	Information and Information Systems	1	20
CS 105	Programming Foundations	1	20

CS 106	Computer Systems and Organisation	1	20
CS 110	Combinatorics for Computer Science 1	1	10
CS 109	Topics in Computing 1	1	10
MS 103	Introduction to Business Technology	1	10
Elective Class			10

Second Year

11.13.65 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 207	Advanced Programming	2	20
CS 208	Logic and Algorithms	2	20
CS 209	User and Data Modelling	2	20
CS 210	Computer Systems and Architecture	2	20
CS 211	Professional Issues in Computing	2	10
CS 212	Topics in Computing 2	2	10
CS 215	Combinatorics for Computer Science 2	2	10
Elective Class			10

Third Year

11.13.66 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 308	Building Software Systems	3	20
CS 313	Computer Systems and Concurrency	3	20
Optional Classes			
80 credits chosen from:			
CS 309	Computer Graphics	3	20
CS 310	Foundations of Artificial Intelligence	3	20
CS 311	Programming Language Definition and Implementation	3	20
CS 312	Web Applications Development	3	20
CS 316	Functional Programming	3	20

Industrial Placement

11.13.67 Between the third and the fourth years of their study each student shall spend a period of approximately one year on work approved by the Course Director; this shall constitute the class *CS 415 Industrial Placement*. The major part of this period will normally be spent in industry and a report on the work performed must be submitted to the Course Director by the end of the first week of the first semester of the final year. This report shall count for 20 credits at Level 4 in the calculation of the final degree classification.

Fourth Year

11.13.68 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 420	Software Engineering*	4	80

CS 408	Individual Project	4	40
*CS 420 <i>Software Engineering</i> comprises:			
CS 409	Software Architecture and Design	4	20

together with 60 credits chosen from:

CS 410	Advanced Functional Programming	4	20
CS 411	Theory of Computation	4	20
CS 412	Information Access and Mining	4	20
CS 413	Embedded Systems	4	20
CS 414	Digital Forensics	4	20

Such other Level 4 classes as may be approved by the Course Director.

Progress

- 11.13.69 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum which must include a non-compensated Pass for the class *CS 105 Programming Foundations*.
- 11.13.70 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including at least 100 credits at Level 2 which must include a non-compensated Pass for the class *CS 207 Advanced Programming*.
- 11.13.71 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including at least 100 credits at Level 3.

Final Honours Classification

- 11.13.72 On successful completion of the fourth year, a candidate will be awarded 80 Level 4 credits under the class code *CS 420 Software Engineering*.
- 11.13.73 The final Honours classification will normally be based on:
- (i) the first assessed attempt at all classes taken at Levels 3 and 4;
 - (ii) if appropriate, an oral examination.

Award

- 11.13.74 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Software Engineering, a candidate must have accumulated no fewer than 500 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 200 credits at Levels 3 and 4 of which a minimum of 100 must be at Level 4 and must include those for *CS 408 Individual Project* and *CS 415 Industrial Placement*.

Transfer

- 11.13.75 A candidate who fails to satisfy the progress or award requirements for the degree of BSc with Honours in Software Engineering may apply for transfer to the degree of BSc with Honours in Computer Science or the degree of BSc Computer Science.

11.13.76 to
11.14.99 (Numbers not used)

11.15 Department of Mathematics and Statistics

Mathematics

BSc with Honours in Mathematics

BSc with Honours in Mathematics and Statistics

BSc in Mathematics

Diploma of Higher Education in Mathematical Studies

Certificate of Higher Education in Mathematical Studies

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.15.1 All students are normally admitted in the first instance as BSc with Honours in Mathematics students. Transfer to the BSc in Mathematics or MMath in Mathematics is possible at any time subject to satisfying the appropriate progress regulations. Transfer to the BSc with Honours in Mathematics and Statistics or MMath in Mathematics and Statistics is possible from the end of third year, subject to satisfying the appropriate progress requirements.

Mode of Study

11.15.2 The courses are available by full-time and part-time study.

Curriculum (Full-time study)

First Year

11.15.3 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
MM 105	Applications of Mathematics	1	20
Elective Class(es)			20

Second Year

11.15.4 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 203	Applicable Analysis	2	20
MM 204	Probability and Statistical Inference	2	20
MM 205	Introduction to Newtonian Mechanics	2	20
MM 206	Mathematical and Statistical Computing	2	20

Third Year

11.15.5 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 300	Complex Variables and Integral Transforms	3	20
MM 301	Linear Algebra	3	20
MM 302	Differential Equations	3	20

Optional Classes*

60 credits chosen by Honours students from List A or another class approved by the Course Director; and by other students from Lists A and B.

List A

MM 303	Applicable Analysis 2	3	20
MM 304	Inference and Regression Modelling	3	20
MM 305	Mechanics of Rigid Bodies and Fluids	3	20
MM 306	Numerical Analysis	3	20
MM 307	Stochastics and Financial Econometrics	3	20

List B

Classes in Regulation 11.15.4 not previously taken or further Elective Classes.

* Intending Honours degree in Mathematics and Statistics students must take *MM 304 Inference and Regression Modelling* and *MM 307 Stochastics and Financial Econometrics*.

Fourth Year

11.15.6 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
<i>Mathematics</i>			
MM 400	Mathematics*	4	120

** *MM 400 Mathematics* comprises:

MM 401	Communicating Mathematics and Statistics	4	20
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and classes amounting to 100 credits chosen from lists A and B below:

Mathematics and Statistics

MM 410	Mathematics and Statistics**	4	120
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** *MM 410 Mathematics and Computer Science* comprises:

MM 401	Communicating Mathematics and Statistics	4	20
MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 407	Applied Statistics in Society	4	20

and classes amounting to 40 credits chosen from List B below or another class approved by the Course Director:

Optional Classes

List A

MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 407	Applied Statistics in Society	4	20

List B***

MM 403	Applicable Analysis 3	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 408	Mathematical Biology and Marine Population Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 411	Elasticity and Complex Materials	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 413	Statistical Mechanics	4	20
MM 414	Dynamical Models in Epidemiology	4	20

***Not all of these classes will be available every year.

Curriculum (Part-time study)

11.15.7 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

11.15.8 In order to progress to the second year of the Honours course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes *MM 101 Introduction to Calculus* and *MM 102 Applications of Calculus*.

11.15.8b In order to progress to the second year of the Bachelors course, a student must have accumulated at least 100 credits from the course curriculum.

11.15.9 In order to progress to the third year of the Honours course, a student must have accumulated at least 220 credits from the course curriculum including those for the classes *MM 201 Linear Algebra and Differential Equations* and *MM 202 Advanced Calculus*.

11.15.9b In order to progress to the third year of the Bachelors course, a student must have accumulated at least 220 credits from the course curriculum.

11.15.10 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 120 credits at Level 3 or above.

Progress (Part-time study)

11.15.11 Students studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits.

Final Assessment and Classification

- 11.15.12 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *MM 400 Mathematics* or *MM410 Mathematics and Statistics*.
- 11.15.13 The final classification for the degree of BSc with Honours in Mathematics or Mathematics and Statistics will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years;
 - (ii) if appropriate, an oral examination.
- Award**
- 11.15.14 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Mathematics, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include at least 120 credits at Level 4.
- 11.15.15 In order to qualify for the award of the degree of BSc with Honours in Mathematics and Statistics, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include at least 120 credits at Level 4.
- 11.15.16 **BSc:** In order to qualify for the award of the degree of BSc in Mathematics, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.15.17 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.15.18 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.15.19
to 11.15.20 (Numbers not used)

Mathematics and Computer Science

BSc with Honours in Mathematics and Computer Science

BSc in Mathematics and Computer Science

Diploma of Higher Education in Mathematics and Computer Science

Certificate of Higher Education in Mathematics and Computer Science

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.15.21 All students are normally admitted in the first instance as Honours students. Transfer to the BSc in Mathematics and Computer Science is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

- 11.15.22 The courses are available by full-time study.

Curriculum

First Year

11.15.23 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CS 103	Machines, Languages and Computation	1	20
CS 104	Information and Information Systems	1	20
CS 105	Programming Foundations	1	20
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 103	Geometry and Algebra with Applications	1	20
Elective Class			10

Second Year

11.15.24 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CS 207	Advanced Programming	2	20
CS 208	Logic and Algorithms	2	20
CS 209	User and Data Modelling	2	20
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 203	Applicable Analysis	2	20
Elective Class			10

Third Year

11.15.25 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 308	Building Software Systems	3	20
MM 301	Linear Algebra	3	20
MM 302	Differential Equations	3	20

Optional Classes

60 credits chosen by Honours students from Lists A and B or another class approved by the Course Director including at least 20 credits from List B; and by other students from Lists A, B, and C.

List A

MM 303	Applicable Analysis 2	3	20
MM 306	Numerical Analysis	3	20

List B

CS 309	Computer Graphics	3	20
CS 310	Foundations of Artificial Intelligence	3	20
CS 311	Programming Language Definition and Implementation	3	20
CS 312	Web Applications Development	3	20
CS 316	Functional Programming	3	20

List C

Classes listed in Regulations 11.15.3 and 11.15.4 not previously taken, or further Elective Classes.

Fourth Year

11.15.26 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
MM 420 Mathematics and Computer Science*	4	120

* *MM 420 Mathematics and Computer Science* comprises :

MM 401 Communicative Mathematics and Statistics	4	20
or		
CS 408 Individual Project (Computer Science)	4	40

and Optional Classes chosen from Lists A and B so that the curriculum contains no fewer than 40 credits in each subject.

List A

MM 402 Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 403 Applicable Analysis 3	4	20
MM 404 Statistical Modelling and Analysis	4	20
MM 405 Fluids and Waves	4	20
MM 406 Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 407 Applied Statistics in Society	4	20
MM 408 Mathematical Biology and Marine Population Modelling	4	20
MM 409 Mathematical Introduction to Networks	4	20
MM 411 Elasticity and Complex Materials	4	20
MM 412 Optimization: Theory and Practice	4	20
MM 413 Statistical Mechanics	4	20
MM 414 Dynamical Models in Epidemiology	4	20

**Not all of these classes will be available every year.

List B

CS 409 Software Architecture and Design	4	20
CS 411 Theory of Computation	4	20
CS 412 Information Mining and Access	4	20

Progress

11.15.27 In order to progress to the second year of the Honours course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes *MM 101 Introduction to Calculus* and *MM 102 Applications of Calculus*.

11.15.27b In order to progress to the second year of the Bachelors course, a student must have accumulated at least 100 credits from the course curriculum.

11.15.28 In order to progress to the third year of the Honours course, a student must have accumulated at least 220 credits from the course curriculum including those for the class *MM 201 Linear Algebra and Differential Equations*.

11.15.28b In order to progress to the third year of the Bachelors course, a student must have accumulated at least 220 credits from the course curriculum.

11.15.29 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 120 credits at Level 3 or above.

Final Assessment and Classification

11.15.30 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *MM 420*.

11.15.31 The final classification for the degree of BSc with Honours in Mathematics and Computer Science will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years;
- (ii) if appropriate, an oral examination.

Award

11.15.32 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Mathematics and Computer Science, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 120 credits at Level 4 or above.

11.15.33 **BSc:** In order to qualify for the award of the degree of BSc in Mathematics and Computer Science, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.15.34 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mathematics and Computer Science, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.15.35 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mathematics and Computer Science, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.15.36
to 11.15.40 (Numbers not used)

Mathematics and Physics

BSc with Honours in Mathematics and Physics

BSc in Mathematics and Physics

Diploma of Higher Education in Mathematics and Physics

Certificate of Higher Education in Mathematics and Physics

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.15.41 All students are normally admitted in the first instance as Honours students. Transfer to the BSc in Mathematics and Physics is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

11.15.42 The courses are available by full-time and part-time study.

Curriculum (Full-time study)

First Year

11.15.43 All full-time students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 103	Geometry and Algebra with Applications	1	20
PH 150	Experimental Physics	1	20
PH 151	Mechanics, Optics and Waves	1	20
PH 152	Quantum Physics and Electromagnetism	1	20
Elective Class			10

Second Year

11.15.44 All full-time students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 206	Mathematical and Statistical Computing	2	20
PH 251	Mechanics, Optics and Waves	2	20
PH 252	Quantum Physics and Electromagnetism	2	20
PH 258	Condensed Matter Physics	2	10
PH 259	Gases and Liquids	2	10
Elective Class			10

Third Year

11.15.45 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 300	Complex Variables and Integral Transforms	3	20
MM 302	Differential Equations	3	20
PH 352	Quantum Physics and Electromagnetism	3	20
PH 358	Condensed Matter Physics	3	10
PH 359	Statistical Physics	3	10

Optional Classes

40 credits chosen by Honours students from List A; or another class approved by the Course Director, and by other students from Lists A and B.

List A

MM 305	Mechanics of Rigid Bodies and Fluids	3	20
MM 306	Numerical Analysis	3	20
PH 355	Physics Skills	3	20

List B

PH 254 Computational Physics 2 20

Classes listed in Regulations 11.15.3 and 11.15.4 not previously taken, or further Elective Classes.

Fourth Year

11.15.46 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
<i>Mathematics and Physics</i>		
MM 430 Mathematics and Physics*	4	120

* MM 430 Mathematics and Physics comprises:

MM 401 Communicative Mathematics and Statistics	4	20
or		
PH 450 Project (Physics)	4	40

and Optional Classes chosen from lists A and B so that the curriculum contains no fewer than 40 credits in each subject.

List A**

MM 402 Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 403 Applicable Analysis 3	4	20
MM 404 Statistical Modelling and Analysis	4	20
MM 405 Fluids and Waves	4	20
MM 406 Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 407 Applied Statistics in Society	4	20
MM 408 Mathematical Biology and Marine Population Modelling	4	20
MM 409 Mathematical Introduction to Networks	4	20
MM 411 Elasticity and Complex Materials	4	20
MM 412 Optimization: Theory and Practice	4	20
MM 413 Statistical Mechanics	4	20
MM 414 Dynamical Models in Epidemiology	4	20

**Not all of these classes will be available every year.

List B

PH 451 Physics Skills	4	20
PH 452 Topics in Physics	4	20
PH 453 Topics in Solid State Physics	4	20
PH 454 Topics in Nanoscience	4	20
PH 455 Topics in Photonics	4	20
PH 456 Topics in Complex Systems In Physics	4	20
PH 457 Topics in Theoretical Physics	4	20
PH 458 Topics in Quantum Physics	4	20
PH 459 Topics in Atomic, Molecular and Nuclear Physics	4	20

Curriculum (Part-time study)

11.15.47 Students studying on a part-time basis will normally take classes amounting to 60/70 credits in each year.

Progress

- 11.15.48 In order to progress to the second year of the Honours course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes *MM 101 Introduction to Calculus* and *MM 102 Applications of Calculus*.
- 11.15.48b In order to progress to the second year of the Bachelors course, a student must have accumulated at least 100 credits from the course curriculum.
- 11.15.49 In order to progress to the third year of the Honours course, a student must have accumulated at least 220 credits from the course curriculum including those for the class *MM 201 Linear Algebra and Differential Equations*.
- 11.15.49b In order to progress to the third year of the Bachelors course, a student must have accumulated at least 220 credits from the course curriculum.
- 11.15.50 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 120 credits at Level 3 or above.

Progress (Part-time study)

- 11.15.51 Students studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120/130 credits.

Final Assessment and Classification

- 11.15.52 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code MM 430 Mathematics and Physics.
- 11.15.53 The final classification for the degree of BSc with Honours in Mathematics and Physics will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years;
 - (ii) if appropriate, an oral examination.

Award

- 11.15.54 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Mathematics and Physics, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 120 credits at Level 4 or above.
- 11.15.55 **BSc:** In order to qualify for the award of the degree of BSc in Mathematics and Physics, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.15.56 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mathematics and Physics, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.15.57 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mathematics and Physics, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

- 11.15.58
to 11.15.60 (Numbers not used)

Mathematics, Statistics and Accounting

BSc with Honours in Mathematics, Statistics and Accounting

BSc in Mathematics, Statistics and Accounting

Diploma of Higher Education in Mathematical Studies
Certificate of Higher Education in Mathematical Studies

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.15.61 All students are normally admitted in the first instance as Honours students. Transfer to the BSc in Mathematics, Statistics and Accounting is possible at any time subject to satisfying the appropriate progress regulations. Students wishing to obtain professional accreditation in Accounting should consult the Adviser of Study (Accounting) regarding their choice of optional classes. To be eligible for accreditation students will require to take an additional 20 credit class.

Mode of Study

11.15.62 The courses are available by full-time study.

Curriculum

First Year

11.15.63 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AG 111	Accounting Technologies	1	20
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20

Elective Class(es) 20

Additional Optional Class

Students seeking professional accreditation in Accounting must additionally take the class

AG 105	Introduction to Finance and Financial Statistics	1	20
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Second Year

11.15.64 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AG 207	Intermediate Financial Accounting	2	20
AG 208	Intermediate Management Accounting	2	20
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 204	Probability and Statistical Inference	2	20

Optional Classes

20 credits chosen from:

AG 209	Taxation	2	20
LS 117	Business Law	1	20
MM 206	Mathematical and Statistical Computing	2	20

Third Year

11.15.65 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AG 309	Governance and Accounting Ethics	3	10
AG 308	Auditing and Assurance	3	10
AG 310	Advanced Financial Reporting	3	10
AG 311	Contemporary Management Accounting	3	10
MM 302	Differential Equations	3	20
MM 304	Inference and Regression Modelling	3	20

Optional Classes

40 credits chosen by Honours students from Lists A and B or another class approved by the Course Director; and by other students from Lists A, B and C.

List A

MM 300	Complex Variables and Integral Transforms	3	20
MM 301	Linear Algebra	3	20
MM 306	Numerical Analysis	3	20
MM 307	Stochastics and Financial Econometrics	3	20

List B

AG 210	Business Finance*	2	20
M9 117	Business Law*	1	20

* Students seeking professional accreditation in Accounting must take this class if not previously taken.

List C

Classes in Regulations 11.15.4, 11.15.5 and 11.15.64 not previously taken or further Elective Classes.

Fourth Year

11.15.66 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
MM 450	Mathematics and Accounting*	4	120

* *MM 450 Mathematics and Accounting* comprises :

MM 401	Communicating Mathematics and Statistics	4	20
or			
40 480	Project (BSc Accounting)	4	20

and Optional classes amounting to 100 credits chosen so that the curriculum contains no fewer than 20 credits from Lists A, 20 credits from List B and 40 credits from List C.

List A

MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM407	Applied Statistics in Society	4	20

List B			
MM 403	Applicable Analysis 3	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 408	Mathematical Biology and Marine Population Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 411	Elasticity and Complex Materials	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 413	Statistical Mechanics	4	20
MM 414	Dynamical Models in Epidemiology	4	20

**Not all of these classes will be available every year.

List C			
AG 408	Integrative Studies in Management Accounting	4	20
AG 409	Sustainable Accounting: Theory and Practice	4	20
AG 413	Taxation	4	20
AG 415	Contemporary Issues in International Financial Reporting	4	20
AG 416	Management Accounting Theory and Practice	4	20
AG 417	Research Methodologies and Accounting	4	20
AG 418	Public Sector Accounting	4	20
AG 419	Accounting and Risk	4	20
AG 420	Auditing Theory and Practice	4	20
AG 422	Accounting Ethics	4	20
AG 424	Accounting Theories	4	20
AG 425	Corporate Governance	4	20
AG 437	Strategic Accounting and Financial Management in Entrepreneurial Firms	4	20
AG 438	Understanding Accounting Technologies and Institutional Structures	4	20

Progress

- 11.15.67 In order to progress to the second year of the Honours course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes *MM 101 Introduction to Calculus*, *MM 102 Applications of Calculus* and *AG 111 Accounting Technologies*.
- 11.15.67b In order to progress to the second year of the Bachelors course, a student must have accumulated at least 100 credits from the course curriculum including those for the class *AG 111 Accounting Technologies*.
- 11.15.68 In order to progress to the third year of the Honours course, a student must have accumulated at least 220 credits from the course curriculum including those for the classes *MM 201 Linear Algebra and Differential Equations*, *MM 204 Probability and Statistical Inference*, *AG 207 Intermediate Financial Accounting* and *AG 208 Intermediate Management Accounting*.
- 11.15.68b In order to progress to the third year of the Bachelors course, a student must have accumulated at least 220 credits from the course curriculum including those for the classes *AG 207 Intermediate Financial Accounting* and *AG 208 Intermediate Management Accounting*.
- 11.15.69 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including those

for the classes *AG 3aa Governing and Accounting Ethics*, *AG 3bb Auditing and Assurance*, *AG 3cc Advanced Financial Reporting* and *AG 3dd Contemporary Management Accounting*.

Final Assessment and Classification

- 11.15.70 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *MM 450*.
- 11.15.71 The final classification for the degree of BSc with Honours in Mathematics, Statistics and Accounting will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years;
 - (ii) if appropriate, an oral examination.

Award

- 11.15.72 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Mathematics, Statistics and Accounting, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 120 credits at Level 4 or above.
- 11.15.73 **BSc:** In order to qualify for the award of the degree of BSc in Mathematics, Statistics and Accounting, a candidate must have accumulated no fewer than 360 credits from the course curriculum including those for the classes *AG 111 Accounting Technologies*, *AG 207 Intermediate Financial Accounting*, *AG 208 Intermediate Management Accounting*, *AG 309 Governance and Accounting Ethics*, *AG 308 Auditing and Assurance*, *AG 310 Advanced Financial Reporting* and *AG 311 Contemporary Management Accounting*.
- 11.15.74 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.15.75 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.15.76
to 11.15.80 (Numbers not used)

Mathematics, Statistics and Economics

BSc with Honours in Mathematics, Statistics and Economics

BSc in Mathematics, Statistics and Economics

Diploma of Higher Education in Mathematical Studies

Certificate of Higher Education in Mathematical Studies

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.15.81 All students are normally admitted in the first instance as Honours students. Transfer to the BSc in Mathematics, Statistics and Economics is possible at any time subject to satisfying the appropriate progress regulations.

Mode of Study

11.15.82 The courses are available by full-time and part-time study.

Curriculum (Full-time study)**First Year**

11.15.83 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
EC 111	Introduction to Economics	1	20
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
Elective Class(es)			20

Second Year

11.15.84 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
EC 207	Microeconomics 2	2	20
EC 208	Macroeconomics 2	2	20
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 204	Probability and Statistical Inference	2	20
Optional Classes			
20 credits chosen from:			
EC 209	Economics of Firm and Industries	2	20
EC 210	International Trade and Development	2	20
MM 206	Mathematical and Statistical Computing	2	20

Third Year

11.15.85 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
EC 311	Introduction to Econometrics	3	20
MM 302	Differential Equations	3	20
MM 304	Inference and Regression Modelling	3	20

Optional Classes

60 credits, including at least 20 credits from List B, chosen by Honours students from Lists A and B or another class approved by the Course Director; and by other students from Lists A, B and C

List A

MM 300	Complex Variables and Integral Transforms	3	20
MM 301	Linear Algebra	3	20
MM 306	Numerical Analysis	3	20

MM 307	Stochastics and Financial Econometrics	3	20
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List B

EC 307	Microeconomics 3	3	20
EC 308	Macroeconomics 3	3	20

List C

Classes in Regulations 11.15.4, 11.15.5 and 11.15.84 not previously taken or further Elective Classes.

Fourth Year

11.15.86 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
MM 460 Mathematics and Economics*	4	120

* *MM 460 Mathematics and Economics* comprises:

MM 401	Communicating Mathematics and Statistics	4	20
or			
31 490	Project BSc (Economics)	4	20

and Optional Classes amounting to 100 credits chosen so that the curriculum contains no fewer than 20 from List A, 20 credits from List B and 40 credits from List C.

List A

MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 407	Applied Statistics in Society	4	20

List B

MM 403	Applicable Analysis 3	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 408	Mathematical Biology and Marine Population Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 411	Elasticity and Complex Materials	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 413	Statistical Mechanics	4	20
MM 414	Dynamical Models in Epidemiology	4	20

**Not all of these classes will be available every year.

List C

EC 403	Microeconomics 4	4	20
EC 404	Macroeconomics 4	4	20
EC 412	Industrial Economics	4	20
EC 414	Financial Development and Economic Growth	4	20

EC 415	Behavioural Economics	4	20
EC 416	Natural Resource and Environmental and Energy Economics	4	20

Curriculum (Part-time study)

11.15.87 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

11.15.88 In order to progress to the second year of the Honours course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes *MM 101 Introduction to Calculus*, *MM 102 Applications of Calculus* and *EC 111 Introduction to Economics*.

11.15.88b In order to progress to the second year of the Bachelors course, a student must have accumulated at least 100 credits from the course curriculum including those for the class *EC 111 Introduction to Economics*.

11.15.89 In order to progress to the third year of the Honours course, a student must have accumulated at least 220 credits from the course curriculum including those for the classes *MM201 Linear Algebra and Differential Equations*, *MM 204 Probability and Statistical Inference*, *EC 207 Microeconomics 2* and *EC 208 Macroeconomics 2*.

11.15.89b In order to progress to the third year of the Bachelors course, a student must have accumulated at least 220 credits from the course curriculum including those for the classes *EC 207 Microeconomics 2* and *EC 208 Macroeconomics 2*.

11.15.90 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including those for the class *EC 311 Introduction to Econometrics*.

Progress (Part-time study)

11.15.91 Students studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits.

Final Assessment and Classification

11.15.92 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code MM 460 Mathematics and Economics.

11.15.93 The final classification for the degree of BSc with Honours in Mathematics, Statistics and Economics will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years;
- (ii) if appropriate, an oral examination.

Award

11.15.94 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Mathematics, Statistics and Economics, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 120 credits at Level 4 or above.

11.15.95 **BSc:** In order to qualify for the award of the degree of BSc in Mathematics, Statistics and Economics, a candidate must have accumulated no fewer than 360 credits from the course curriculum including those for the classes *EC*

111 Introduction to Economics, EC 207 Microeconomics 2, EC 208 Macroeconomics 2 and EC 311 Introduction to Econometrics.

11.15.96 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.15.97 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.15.98

to 11.15.100 (Numbers not used)

Mathematics, Statistics and Finance

BSc with Honours in Mathematics, Statistics and Finance

BSc in Mathematics, Statistics and Finance

Diploma of Higher Education in Mathematical Studies

Certificate of Higher Education in Mathematical Studies

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.15.101 All students are normally admitted in the first instance as Honours students. Transfer to the BSc in Mathematics, Statistics and Finance is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

11.15.102 The courses are available by full-time study only.

Curriculum

First Year

11.15.103 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AG 151	Introduction to Finance and Accounting	1	20
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
Elective Class(es)			20

Second Year

11.15.104 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AG 210	Business Finance	2	20
AG 211	Portfolio Analysis	2	20
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 204	Probability and Statistical Inference	2	20

Optional Classes

20 credits chosen from

List A

MM 206	Mathematical and Statistical Computing	2	20
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List B

AG 212	Financial Analysis	2	20
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AG 213	Financial Markets and Banking	2	20
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Third Year

11.15.105 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AG 306	Security Analysis	3	20
AG 307	Treasury Management and International Finance	3	20
MM 302	Differential Equations	3	20
MM 304	Inference and Regression Modelling	3	20

Optional Classes

40 credits chosen by Honours students from Lists A and B or another class approved by the Course Director; and by other students from Lists A, B and C.

List A

MM 300	Complex Variables and Integral Transforms	3	20
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MM 301	Linear Algebra	3	20
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MM 306	Numerical Analysis	3	20
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MM 307	Stochastics and Financial Econometrics	3	20
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List B

Optional classes from List B in Regulation 11.15.104 not previously taken.

List C

Classes in Regulations 11.15.4, 11.15.5 and 11.15.104 not previously taken or further Elective Classes.

Fourth Year

11.15.106 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
MM 470	Mathematics and Finance*	4	120

* *MM 470 Mathematics and Finance* comprises:

MM 401	Communicating Mathematics and Statistics	4	20
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or

40 490	Project (BSc Finance)	4	20
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and Optional Classes amounting to 100 credits chosen so that the curriculum contains no fewer than 20 credits from List A, 20 credits from List B and 40 credits from List C.

List A			
MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 407	Applied Statistics in Society	4	20
List B			
MM 403	Applicable Analysis 3	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 408	Mathematical Biology and Marine Population Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 411	Elasticity and Complex Materials	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 413	Statistical Mechanics	4	20
MM 414	Dynamical Models in Epidemiology	4	20
List C			
AG 428	Asset Pricing	4	20
AG 430	Corporate Financing	4	20
AG 431	Corporate Investment	4	20
AG 433	International Corporate Governance	4	20
AG 432	Financial Quantitative Methods	4	20
AG 426	Advanced Derivatives	4	20
AG 427	Advanced Portfolio Analysis	4	20
AG 429	Behavioural Finance	4	20
AG 434	International Financial Management	4	20

**Not all of these classes will be available every year

Progress

- 11.15.107 In order to progress to the second year of the Honours course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes *MM 101 Introduction to Calculus*, *MM 102 Applications of Calculus* and *AG 151 Introduction to Finance and Accounting*.
- 11.15.107b In order to progress to the second year of the Bachelors course, a student must have accumulated at least 100 credits from the course curriculum including those for the class *AG 151 Introduction to Finance and Accounting*.
- 11.15.108 In order to progress to the third year of the Honours course, a student must have accumulated at least 220 credits from the course curriculum including those for the classes *MM 201 Linear Algebra and Differential Equations*, *MM 204 Probability and Statistical Inference*, *AG 210 Business Finance* and *AG 211 Portfolio Analysis*.
- 11.15.108b In order to progress to the third year of the Bachelors course, a student must have accumulated at least 220 credits from the course curriculum including those for the classes *AG 210 Business Finance* and *AG 211 Portfolio Analysis*.
- 11.15.109 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including those for the classes *AG 306 Security Analysis* and *AG 307 Treasury Management and International Finance*.

Final Assessment and Classification

- 11.15.110 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *MM 470*.
- 11.15.111 The final classification for the degree of BSc with Honours in Mathematics, Statistics and Finance will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years;
 - (ii) if appropriate, an oral examination.

Award

- 11.15.112 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Mathematics, Statistics and Finance, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 120 credits at Level 4 or above.
- 11.15.113 **BSc:** In order to qualify for the award of the degree of BSc in Mathematics, Statistics and Finance, a candidate must have accumulated no fewer than 360 credits from the course curriculum including those for the classes *AG 151 Introduction to Finance and Accounting*, *AG 210 Business Finance*, *AG 211 Portfolio Analysis*, *AG 306 Security Analysis* and *AG 307 Treasury Management and International Finance*.
- 11.15.114 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.15.115 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.15.116
to 11.15.120 (Numbers not used)

Mathematics, Statistics and Management Science

BSc with Honours in Mathematics, Statistics and Management Science

BSc in Mathematics, Statistics and Management Science

Diploma of Higher Education in Mathematical Studies

Certificate of Higher Education in Mathematical Studies

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.15.121 All students are normally admitted in the first instance as Honours students. Transfer to the BSc in Mathematics, Statistics and Management Science is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

- 11.15.122 The courses are available by full-time study only.

Curriculum

First Year

11.15.123 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
MS 111	Foundations of Business Analysis	1	20
Elective Class(es)			20

Second Year

11.15.124 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 204	Probability and Statistical Inference	2	20
MS 208	Consulting and Simulation	2	20
Optional Classes			
40 credits chosen from			
MM 206	Mathematical and Statistical Computing	2	20
MS 205	Information Systems in the Knowledge Economy	2	20
MS 207	Operations Management	2	20

Third Year

11.15.125 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 302	Differential Equations	3	20
MM 304	Inference and Regression Modelling	3	20
MS 309	Business Analysis and Consulting Projects	3	20

Optional Classes

60 credits, including at least 20 credits from List B, chosen by Honours students from Lists A and B or another class approved by the Course Director; and by other students from Lists A, B and C.

List A

MM 300	Complex Variables and Integral Transforms	3	20
MM 301	Linear Algebra	3	20
MM 306	Numerical Analysis	3	20
MM 307	Stochastics and Financial Econometrics	3	20

List B

MS 306	Information Systems Support for Managers	3	20
MS 310	Supply Chain Management	3	20

List C

Classes in Regulations 11.15.4 and 11.15.5 not previously taken or further Elective Classes.

Fourth Year

11.15.126 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
MM 480	Mathematics and Management Science*	4	120

* *MM 480 Mathematics and Management Science* comprises:

MM 401	Communicating Mathematics and Statistics	4	20
or			
48 490	Project (BSc Management Science)	4	20

and Optional Classes amounting to 100 credits chosen so that the curriculum contains no fewer than 20 credits from List A, 20 credits from List B and 40 credits from List C.

List A

MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 407	Applied Statistics in Society	4	20

List B**

MM 403	Applicable Analysis 3	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 408	Mathematical Biology and Marine Population Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 411	Elasticity and Complex Materials	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 413	Statistical Mechanics	4	20
MM 414	Dynamical Models in Epidemiology	4	20

**Not all of these classes will be available every year

List C

MS 420	Management Science 4	4	20
MS 416	Business analytics using data mining	4	20
MS 422	Risk analysis and management	4	20
MS 415	Business process integration with ERP	4	20

Progress

11.15.127 In order to progress to the second year of the Honours course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes *MM 101 Introduction to Calculus*, *MM 102 Applications of Calculus* and *MS 111 Foundations of Business Analysis*.

- 11.15.127b In order to progress to the second year of the Bachelors course, a student must have accumulated at least 100 credits from the course curriculum including those for the class *MS 111 Foundations of Business Analysis*.
- 11.15.128 In order to progress to the third year of the Honours course, a student must have accumulated at least 220 credits from the course curriculum including those for the classes *MM 201 Linear Algebra and Differential Equations*, *MM 204 Probability and Statistical Inference* and *MS 208 Consulting and Simulation*.
- 11.15.128b In order to progress to the third year of the Bachelors course, a student must have accumulated at least 220 credits from the course curriculum including those for the class *MS 208 Consulting and Simulation*.
- 11.15.129 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including those for the class *MS 309 Business Analysis and Consulting Projects*.

Final Assessment and Classification

- 11.15.130 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *MM 480 Mathematics and Management Science*.
- 11.15.131 The final classification for the degree of BSc with Honours in Mathematics, Statistics and Management Science will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years;
 - (ii) if appropriate, an oral examination.

Award

- 11.15.132 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Mathematics, Statistics and Management Science, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 120 credits at Level 4 or above.
- 11.15.133 **BSc:** In order to qualify for the award of the degree of BSc in Mathematics, Statistics and Management Science, a candidate must have accumulated no fewer than 360 credits from the course curriculum including those for the classes *MS 111 Foundations of Business Analysis*, *MS 208 Consulting and Simulation* and *MS 309 Business Analysis and Consulting Projects*.
- 11.15.134 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.15.135 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.16 (Numbers not used)

11.17 Department of Physics

Physics

BSc with Honours in Physics

BSc in Physics

Diploma of Higher Education in Physics

Certificate of Higher Education in Physics

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.17.1 All students are normally admitted in the first instance as potential Honours students. Transfer to the MPhys is possible at any time subject to satisfying the appropriate course requirements.

Mode of Study

11.17.2 The course is available by full-time and part-time study.

Curriculum (Full-time study)

First Year

11.17.3 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PH 150	Experimental Physics	1	20
PH 151	Mechanics, Optics and Waves	1	20
PH 152	Quantum Physics and Electromagnetism	1	20
MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20
Elective Class(es)			20

Second Year

11.17.4 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes (all courses)		Level	Credits
PH 250	Experimental Physics	2	20
PH 251	Mechanics, Optics and Waves	2	20
PH 254	Computational Physics	2	20
PH 258	Condensed Matter Physics	2	10
PH 259	Gases and Liquids	2	10
Compulsory Classes (Honours Degree)			
MM 211	Mathematics 3B	2	20
PH 252	Quantum Physics and Electromagnetism	2	20
Compulsory Classes (Ordinary Degree)			
PH 257	Interactive Physics	2	20

and 20 credits chosen from Regulation 11.17.7 or such other classes as may be approved by the Adviser of Study

Third Year

11.17.5 All full-time students shall undertake classes amounting to 120 credits as follows:

PH 350	Experimental Physics	3	40
PH 355	Physics Skills	3	20
PH 358	Condensed Matter Physics	3	10
PH 359	Statistical Physics	3	10

and

for intending Honours students

either

MM 311	Mathematics 4B	3	20
PH 352	Quantum Physics and Electromagnetism	3	20

or

MM 211	Mathematics 3B	2	20
PH 252	Quantum Physics and Electromagnetism	2	20

for other students

either

PH 357	Interactive Physics	3	20
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and 20 credits chosen from Regulation 11.17.7 or such other classes as may be approved by the Adviser of Study

Or

MM 211	Mathematics 3B	2	20
PH 252	Quantum Physics and Electromagnetism	2	20

A student with a pass in a class may substitute another class with the approval of the Adviser of Study.

Fourth Year

11.17.6 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PH 499	Physics*	4	120

*PH 499 Physics comprises

PH 450	Project	4	40
PH 451	Physics Skills	4	20

and if not already taken

PH 352	Quantum Physics and Electromagnetism	3	20
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together with no fewer than 40 credits chosen from the following to bring the total studied at Level 4 to at least 100:

MM 311	Mathematics 4B	3	20
PH 452	Topics in Physics	4	20
PH 453	Topics in Solid State Physics	4	20

PH 454	Topics in Nanoscience	4	20
PH 455	Topics in Photonics	4	20
PH 456	Topics in Computational and Complex Systems in Physics	4	20
PH 457	Topics in Theoretical Physics	4	20
PH 458	Topics in Quantum Physics	4	20
PH 459	Topics in Atomic, Molecular and Nuclear Physics	4	20

Approved Optional Classes

11.17.7		Level	Credits
	PH 160	1	10
	PH 161	1	10
	PH 162	1	10
	PH 163	1	10
	PH 164	1	10
	PH 165	1	10
	PH 166	1	20
	PH 167	1	10
	PH 168	1	10
	PH 169	1	10
	PH 170		
		1	20
	PH 260	2	10
	MM 211	2	20
	MM 311	3	20

Such other classes as may be approved by the Course Director.

Curriculum (Part-time study)

11.17.8 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress (Full-time study)

11.17.9 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.17.10 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.

11.17.11 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 60 credits at Level 3 or above.

Progress (Part-time study)

11.17.12 Students studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits.

Final Assessment and Honours Classification

11.17.13 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *PH 499*.

11.17.14 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and optional Level 3 and Level 4 classes;
- (ii) if appropriate, an oral examination.

Award

- 11.17.15 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Physics a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 200 credits at Levels 3 and 4 with at least 100 credits at Level 4.
- 11.17.16 **BSc:** In order to qualify for the award of the degree of BSc in Physics a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.17.17 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Physics, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.17.18 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Physics, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.18
to 11.21 (Numbers not used)

11.22 Strathclyde Institute of Pharmacy and Biomedical Sciences

Biomedical Sciences

BSc with Honours in Biochemistry and Immunology
BSc with Honours in Biochemistry and Microbiology
BSc with Honours in Biochemistry and Pharmacology
BSc with Honours in Immunology and Microbiology
BSc with Honours in Immunology and Pharmacology
BSc with Honours in Biomedical Science
BSc in Biological Sciences
Diploma of Higher Education in Biological Sciences
Certificate of Higher Education in Biological Sciences

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.22.1 All students are normally admitted in the first instance as potential Honours students. Transfer between the courses is possible prior to the third year of study, subject to satisfying the appropriate course requirements.

Mode of Study

11.22.2 The courses are available by full-time and part-time study.

Curriculum (Full-time study)

First Year

11.22.3 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 101	Foundation Bioscience and Statistics	1	20
BM 102	Molecular Bioscience	1	20
BM 103	Biology of Organisms	1	20
BM 104	Practical Bioscience and Skills Development 1	1	20
CH 105	Chemistry for Bioscience	1	20

Elective Class(es) 20

Second Year

11.22.4 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 201	Introduction to Infection and Immunity	2	20
BM 202	Nutritional Biochemistry and Metabolism	2	20
BM 203	Cell and Molecular Biology	2	20
BM 204	Practical Bioscience and Skills Development 2	2	20
BM 205	Human Physiology	2	20
CH 201	Bio-organic Chemistry	2	20

Third Year
 11.22.5 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
BM 310 Laboratory Methods and Skills Development	3	40

together with classes appropriate to the chosen course:

Biochemistry and Immunology

Compulsory Classes

BM 301	Fundamental Immunology	3	20
BM 302	Intermediate Immunology	3	20
BM 305	Clinical Biochemistry and Molecular Genetics	3	20
BM 306	Proteins and Enzymes	3	20

Biochemistry and Microbiology

Compulsory Classes

BM 303	Fundamental Microbiology	3	20
BM 304	Intermediate Microbiology	3	20
BM 305	Clinical Biochemistry and Molecular Genetics	3	20
BM 306	Proteins and Enzymes	3	20

Biochemistry and Pharmacology

Compulsory Classes

BM 305	Clinical Biochemistry and Molecular Genetics	3	20
BM 306	Proteins and Enzymes	3	20
BM 307	Fundamentals of Pharmacology	3	20
BM 308	Drugs and Disease 1	3	20

Biological Sciences

Optional Classes

80 credits chosen from the classes listed in this Regulation.

Biomedical Science

Compulsory Classes

BM 301	Fundamental Immunology	3	20
BM 303	Fundamental Microbiology	3	20
BM 305	Clinical Biochemistry & Molecular Genetics	3	20
BM 309	Haematology, Immunohaematology and Immunodiagnostics	3	20

Immunology and Microbiology

Compulsory Classes

BM 301	Fundamental Immunology	3	20
BM 302	Intermediate Immunology	3	20
BM 303	Fundamental Microbiology	3	20
BM 304	Intermediate Microbiology	3	20

Immunology and Pharmacology

Compulsory Classes

BM 301	Fundamental Immunology	3	20
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BM 302	Intermediate Immunology	3	20
BM 307	Fundamentals of Pharmacology	3	20
BM 308	Drugs and Disease 1	3	20

Fourth Year

11.22.6 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class*		Level	Credits
BM 499	Composite Mark for Honours Curriculum	4	120

BM 499 comprises

Compulsory Class

BM 401	Research in Biomedical Sciences	4	40
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together with classes appropriate to the chosen course:

Biochemistry and Immunology

Compulsory Classes

BM 402	Honours Immunology 1	4	20
BM 403	Honours Immunology 2	4	20
BM 406	Honours Biochemistry 1	4	20
BM 407	Honours Biochemistry 2	4	20

Biochemistry and Microbiology

Compulsory Classes

BM 404	Honours Microbiology 1	4	20
BM 405	Honours Microbiology 2	4	2
BM 406	Honours Biochemistry 1	4	20
BM 407	Honours Biochemistry 2	4	20

Biochemistry and Pharmacology

Compulsory Classes

BM 406	Honours Biochemistry 1	4	20
BM 407	Honours Biochemistry 2	4	20
BM 408	Honours Pharmacology 1	4	20
BM 409	Honours Pharmacology 2	4	20

Biomedical Science

Compulsory Class

BM 403	Honours Immunology 2	4	20
BM 404	Honours Microbiology 1	4	20
BM 407	Honours Biochemistry 2	4	20
BM 410	Molecular and Cellular Pathology	4	20

Immunology and Microbiology

Compulsory Classes

BM 402	Honours Immunology 1	4	20
BM 403	Honours Immunology 2	4	20
BM 404	Honours Microbiology 1	4	20
BM 405	Honours Microbiology 2	4	20

Immunology and Pharmacology

Compulsory Classes

BM 402	Honours Immunology 1	4	20
BM 403	Honours Immunology 2	4	20
BM 408	Honours Pharmacology 1	4	20
BM 409	Honours Pharmacology 2	4	20

Curriculum (Part-time study)

11.22.7 In each academic year, a student studying on a part-time basis shall normally undertake a curriculum of no fewer than 60 credits chosen from the appropriate full-time curriculum.

Progress (Full-time study)

11.22.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum including no fewer than 80 credits from the first year compulsory classes.

11.22.9 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including no fewer than 100 credits from the second year compulsory classes in the chosen course.

11.22.10 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including no fewer than 100 credits from the third year compulsory classes in the chosen course.

Progress (Part-time study)

11.22.11 In order to progress to the next full-time equivalent year of the course, a part-time student must normally satisfy the appropriate progress requirements for full-time study.

11.22.12 In any one academic year, a part-time student shall not normally carry more than 20 outstanding credits from one academic year to the next.

Final Assessment and Honours Classification

11.22.13 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *BM 499*.

11.22.14 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes in the third and fourth years;
- (ii) if appropriate, an oral examination.

Award

11.22.15 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in the chosen course, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

11.22.16 **BSc:** In order to qualify for the award of the BSc in Biological Sciences, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.22.17 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Biological Sciences, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.22.18 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Biological Sciences, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.22.19
to 11.22.30 (Numbers not used)

Forensic Biology

BSc with Honours in Forensic Biology

Course Regulations

[These regulations are to be read in conjunction with Regulation 15.1]

Status of the Course

11.22.31 The degree is offered at Honours level only. Transfer to a course in Biomedical Sciences is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

11.22.32 The course is available by full-time study only.

First Year

11.22.33 All students shall undertake classes amounting to 120 credits as follows

Compulsory Classes		Level	Credits
BM 101	Foundation Bioscience and Statistics	1	20
BM 102	Molecular Bioscience	1	20
BM 103	Biology of Organisms	1	20
BM 104	Practical Bioscience and Skills Development 1	1	20
CH 105	Chemistry for Bioscience	1	20
Elective Class(es)			20

Second Year

11.22.34 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
BM 201	Introduction to Infection and Immunity	2	20
BM 202	Nutritional Biochemistry and Metabolism	2	20
BM 203	Cell and Molecular Biology	2	20
BM 204	Practical Bioscience and Skills Development 2	2	20
BM 205	Human Physiology	2	20
CH 201	Bio-organic Chemistry	2	20

Third Year

11.22.35 All students shall undertake classes amounting to 120 credits as follows

Compulsory Classes		Level	Credits
BM 301	Fundamental Immunology	3	20
BM 305	Clinical Biochemistry and Molecular Genetics	3	20
BM 307	Fundamentals of Pharmacology	3	20

BM 311	Practical Bioscience and Skills Development 3	3	20
FS 301	Forensic Statistics and Communication	3	20
FS 304	Investigative Forensic Biology	3	20

Fourth Year

11.22.36 All students shall undertake classes amounting to 120 Credits as follows

Compulsory Class*		Level	Credits
BM 499	Composite Mark for Honours Curriculum		

**BM 499* comprises

Compulsory Classes

BM 411	Toxicology	4	20
BM 412	Aspects of Forensic Biology	4	20
FS 404	Advanced and Professional Forensic Biology	4	40
FS 405	Research in Forensic Biology	4	40

Progress

11.22.37 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum including no fewer than 80 credits from the first year compulsory classes.

11.22.38 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum. These must include no fewer than 100 credits from the second year compulsory classes.

11.22.39 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum. These must include no fewer than 100 credits from the third year compulsory classes including those for the classes *FS 301 Forensic Statistics and Communication* and *FS 304 Investigative Forensic Biology*.

Final Assessment and Honours Classification

11.22.40 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *BM 499*.

11.22.41 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes in the third and fourth years;
- (ii) if appropriate, an oral examination.

Award

11.22.42 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Forensic Biology, a student must have accumulated no fewer than 480 credits from the course curriculum including no fewer than 220 credits at Levels 3 and 4 or above of which a minimum of 120 must be at Level 4.

Transfer

11.22.43 A candidate who fails to meet the progress or award requirements for the BSc with Honours in Forensic Biology may be transferred to the BSc in Biological Sciences subject to satisfying the appropriate progress regulations.

11.22.44
to 11.22.50 (Numbers not used)

Pharmaceutical Sciences

BSc with Honours in Pharmaceutical Sciences

BSc in Pharmaceutical Sciences

Diploma of Higher Education in Pharmaceutical Sciences

Certificate of Higher Education in Pharmaceutical Sciences

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.22.51 All students are normally admitted in the first instance to the MPharm course (See Regulation 12.16). Exceptionally, students may be admitted to the first year of the BSc with Honours in Pharmaceutical Sciences.

Mode of Study

- 11.22.52 The courses are normally available by full-time study only.

Curriculum

First Year

- 11.22.53 All students shall undertake classes amounting to 120 credits as follows:

	Level	Credits
Elective Class(es)		20
Optional Classes		
100 credits chosen from:		
13 163	Foundation Chemistry for Pharmacists	1 20
MM 110	Mathematics 1P	1 10
MP 100	Foundation Pharmacy	1 20
MP 101	Human Physiology 1	2 20
MP 102	Bioscience for Pharmacists	1 20
MP 103	Biopharmacy 1	1 20
MP 104	Human Physiology 2	2 20
Such other classes as may be approved by the Course Director.		

Second Year

- 11.22.54 All students shall undertake classes amounting to 120 credits chosen from:

	Level	Credits
Optional Classes		
MM 210	Statistics 1P	2 10
MP 200	Physical Pharmacy	2 20
MP 201	Health Promotion	2 20
MP 202	Pharmaceutical Microbiology	2 20
MP 204	Biopharmacy 2	2 20
MP 308	Fundamentals of Pharmacology	3 20
MP 309	Drugs and Disease 1	3 20
MP 310	Pharmacy Practice 1	3 20
Such other classes as may be approved by the Course Director.		

Third Year

11.22.55 All students shall undertake classes amounting to 120 credits chosen from:

Optional Classes		Level	Credits
BM 311	Practical Bioscience and Skills Development 3	3	20
MP 300	Pharmacy Practice 2	3	20
MP 301	Biopharmacy 3	3	20
MP 305	Biopharmacy 4	3	20
MP 408	Formulation, Manufacturing and Testing 1	4	20
MP 409	Formulation, Manufacturing and Testing 2	4	20
MP 410	Drugs and Disease 2	4	10
MP 411	Drugs and Disease 3	4	20
MP 510	Pharmacy Practice 3	5	20

Such other classes as may be approved by the Course Director.

Fourth Year

11.22.56 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 401	Research in Biomedical Sciences	4	40
BM 408	Honours Pharmacology 1	4	20
MP 403	Drug Delivery Systems	4	20
MP 404	Biopharmacy 5	4	20
MP 406	Advanced Drug Discovery	4	10

Optional Classes

Such classes as may be approved by the Course Director.

Progress

11.22.57 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.22.58 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including 100 credits at Level 2 or above.

11.22.59 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 100 credits at Level 3 or above.

Final Classification

11.22.60 The final classification for the degree of BSc with Honours in Pharmaceutical Sciences will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes at levels three and four;
- (ii) if appropriate, an oral examination.

Award

11.22.61 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Pharmaceutical Sciences, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 100 credits at Level 4 or above.

- 11.22.62 **BSc:** In order to qualify for the award of the degree of BSc in Pharmaceutical Sciences, a candidate must have accumulated no fewer than 360 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 100 credits at Level 3 or above.
- 11.22.63 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Pharmaceutical Sciences, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.22.64 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Pharmaceutical Sciences, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.22.65
to 11.22.70 (Numbers not used)

Pharmacology with Industrial Placement

BSc with Honours in Pharmacology with Industrial Placement

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Course

- 11.22.71 The course is offered at Honours level only.

Mode of Study

- 11.22.72 The course is available by full-time study only.

Place of Study

- 11.22.73 As permitted by Regulation 11.1.7, the course involves study outwith the campus.

Curriculum

First Year

- 11.22.74 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
13 163	Foundation Chemistry for Pharmacists	1	20
BM 101	Foundation Bioscience and Statistics	1	20
BM 102	Molecular Bioscience	1	20
BM 105	Practical Pharmacology and Skills Development	1	20
BM 205	Human Physiology	2	20
Elective Class(es)			20

Second Year

- 11.22.75 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 202	Nutritional Biochemistry and Metabolism	2	20
BM 203	Cell and Molecular Biology	2	20
BM 307	Fundamentals of Pharmacology	3	20
BM 308	Drugs and Disease I	3	20
BM 311	Laboratory Methods and Skills Development	3	20
MP 204	Biopharmacy 2	2	20

Third Year

11.22.76 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 306	Proteins and Enzymes	3	20
BM 316	Industrial Placement Report and Skills Development	3	80
MP 301	Biopharmacy 3	3	20

Fourth Year

11.22.77 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
BM 499	Composite Mark for Honours Curriculum	4	120

**BM 499* comprises

Compulsory Classes			
BM 401	Research in Biomedical Sciences	4	40
BM 408	Honours Pharmacology 1	4	20
BM 409	Honours Pharmacology 2	4	20
BM 415	Pharmacokinetics & Drug Metabolism	4	20
MP 407	Drug Discovery & Development	4	20

Progress

11.22.78 In order to progress to the second year of the course, a student must have accumulated at least 110 credits from the course curriculum including all the first year compulsory classes.

11.22.79 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including no fewer than 100 credits from the second year compulsory classes. These must include the credits for the class *BM 307 Fundamentals of Pharmacology*.

11.22.79 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including all the third year compulsory classes.

Final Assessment and Classification

11.22.80 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under class code *BM 499*

11.22.81 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory Level 3 and Level 4 classes
- (ii) if appropriate, an oral examination.

Award

11.22.82 **BSc with Honours:** In order to qualify for the award of the degree of BSc in Honours in Pharmacology with Industrial Placement, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

Transfer

11.22.83 A candidate who fails to meet the requirements for progress or award of the BSc with Honours in Pharmacology with Industrial Placement may apply for transfer to the BSc with Honours in Natural Sciences.

11.23

to 11.28

(Numbers not used)

11.29 Faculties of Science and Humanities and Social Sciences: Joint Courses

Chemistry

BSc in Chemistry with Teaching

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Degree

11.29.1 All students will normally have been admitted in the first instance to the MChem in Chemistry with Teaching.

Mode of Study

11.29.2 The course is available by both full-time and part-time study.

Place of Study

11.29.3 The School Experience classes will involve placements in schools. To be eligible to undertake school experience, a student must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update by the end of the third year.

Curriculum (Full-time study)

First Year

11.29.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 106	Chemistry: Principles and Practice 1	1	20
CH 107	Chemistry: Principles and Practice 2	1	20
CH 108	Practical and Transferable Skills	1	20
MM 116	Mathematics 1C	1	20
either			
PH 151	Mechanics, Optics and Waves*	1	20
or			
BM 102	Molecular Bioscience	1	20
or for a student lacking a pass in SQA Higher Physics (or an equivalent qualification)			
PH 166	Foundation Physics	1	20

Elective Class(es)

Second Year

11.29.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 205	Practical Physical and Applied Chemistry	2	20
CH 208	Fundamental Organic Chemistry	2	20
CH 212	Physical Chemistry I	2	20
CH 213	Forensic Trace Analysis and Analytical Chemistry	2	20
CH 214	Practical Organic and Inorganic Chemistry	2	20
CH 202	Inorganic Chemistry	2	20

Third Year

11.29.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 309	Physical Chemistry 2	3	20
CH 315	Practical Organic and Inorganic Chemistry	3	20
CH 317	Inorganic and Computational Chemistry & Information Retrieval	3	20
CH 325	Intermediate Organic Chemistry and Spectroscopy	3	20
CH 326	Inorganic Chemistry, Structures and Spectroscopy	3	20
CH 313	Practical Physical, Applied, Forensic & Analytical Chemistry	3	20
X9 828	Pedagogy and Curriculum Chemistry with Science 2A	3	20

Fourth Year

11.29.7 All students shall normally undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 458	Distance Learning Assignment	4	20
X7 747	Educational Studies	4	20
X7 757	Pedagogy and Curriculum Chemistry with Science	4	20
X9 917	Pedagogy and Placement Learning 1A	4	40
X9 919	Educational Studies 2A	4	20

Curriculum (Part-time study)

11.29.8 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

11.29.9 In order to progress to the second year of the course a student must have accumulated at least 100 credits from the course curriculum including those for the classes *CH 106 Chemistry: Principles and Practice 1*, *CH 107 Chemistry: Principles and Practice 2*, *CH 108 Practical and Transferable Skills* and *MM 116 Mathematics C*.

11.29.10 In order to progress to the third year of the course, a student must have accumulated at least 240 credits including 120 Level 2 credits from Chemistry classes in the second year curriculum.

11.29.11 In order to progress to the fourth year of the course, a student must satisfy the requirements for entering Initial Teaching Education, be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update and have accumulated no fewer than 360 credits from the course curriculum including at least 60 Level 3 credits from third year Chemistry classes.

Award

11.29.12 **BSc:** In order to qualify for the award of the degree of BSc in Chemistry with Teaching, a candidate must have accumulated no fewer than 450 credits from the course curriculum including the credits for all the compulsory Education classes taken individually.

Transfer

11.29.13 A candidate who fails to satisfy the progress or award requirements for the degree of BSc with Honours in Chemistry with Teaching or the BSc in Chemistry with Teaching may be transferred to the degree of BSc in Chemistry.

11.29.14
to 11.29.20 (Numbers not used)

Mathematics with Teaching

BSc with Honours in Mathematics with Teaching BSc in Mathematics with Teaching

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.29.21 The courses are offered at degree level only as four year courses. All students are admitted in the first instance as Honours students. Transfer to the BSc in Mathematics is possible at any time subject to satisfying the appropriate progress regulations.

Mode of Study

11.29.22 The courses are available by full-time and (during years 1 and 2) part-time study.

Place of Study

11.29.23 The School Experience classes will involve placements in schools. To be eligible to undertake school experience, a student must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Curriculum (Full-time study)

The first and second year curricula are the same as that for the BSc with Honours in Mathematics.

First Year

11.29.24 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20

MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
MM 105	Applications of Mathematics	1	20

Elective Class(es) 20

Second Year

11.29.25 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 203	Applicable Analysis	2	20
MM 204	Probability and Statistical Inference	2	20
MM 205	Introduction to Newtonian Mechanics	2	20
MM 206	Mathematical and Statistical Computing	2	20

Third Year

11.29.26 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 300	Complex Variables and Integral Transforms	3	20
MM 301	Linear Algebra	3	20
MM 302	Differential Equations	3	20
X9 406	Pedagogy and Placement Learning 1*	4	20
X9 443	Pedagogy and Curriculum Mathematics 1	4	20

Optional Classes

No fewer than 20 credits chosen from the following list or another class approved by the Course Director.

MM 303	Applicable Analysis 2	3	20
MM 304	Inference and Regression Modelling	3	20
MM 305	Mechanics of Rigid Bodies and Fluids	3	20
MM 306	Numerical Analysis	3	20
MM 307	Stochastics and Financial Econometrics	3	20

Or another class approved by the Course Director

Induction Block (10 days), Serial Days (15 days), June Block (10 days)

Note: Education classes start in the last week of August at the beginning of year 3.

Fourth Year

11.29.27 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 440	Mathematics with Teaching*	4	40

X9 458	Educational Studies 1	4	20
X9 462	Educational Studies 2	4	20
X9 463	Pedagogy and Placement Learning 2 **	4	20
X9 464	Pedagogy and Curriculum Mathematics 2	4	20

** Block placement 1 – February/March (31 days)

Block placement 2 – April/May (17 days)

Note: Education classes start in the first week of October

* *MM 440 Mathematics with Teaching* comprises 40 credits of classes chosen from the list below:

Optional Classes **		Level	Credits
MM 401	Communicating Mathematics and Statistics	4	20
MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 403	Applicable Analysis 3	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 407	Applied Statistics in Society	4	20
MM 408	Mathematical Biology and Marine Population Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 411	Elasticity and Complex Materials	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 413	Statistical Mechanics	4	20
MM 414	Dynamical Models in Epidemiology	4	20

** Not all of these classes will be available every year.

Curriculum (Part-time study Years 1 & 2)

11.29.28 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

11.29.29 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum, including those for the classes *MM 101 Introduction to Calculus* and *MM 102 Applications of Calculus*.

11.29.30 In order to progress to the third year of the course, a student must satisfy the requirements for entering Initial Teacher Education, be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update and have accumulated at least 220 credits from the course curriculum including those for the classes *MM 201 Linear Algebra and Differential Equations* and *MM 202 Advanced Calculus*.

11.29.31 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including those for the classes *X9 406 Pedagogy and Placement Learning 1* and *X9 443 Pedagogy and Curriculum Mathematics 1*.

Progress (Part-time Study Years 1 and 2 only)

11.29.32 Students studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits.

Final Assessment and Classification

11.29.33 The final classification for the degree of BSc with Honours in Mathematics with Teaching will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years;
- (ii) if appropriate, an oral examination.

Award

11.29.34 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Mathematics with Teaching, a candidate must have accumulated no fewer than 480 credits from the course curriculum including the credits for all the compulsory Education classes taken individually.

11.29.35 **BSc:** In order to qualify for the award of the degree of BSc in Mathematics with Teaching, a candidate must have accumulated no fewer than 440 credits from the course curriculum including the credits for all the compulsory Education classes taken individually.

11.29.36 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum

11.29.37 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mathematical Studies, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.29.38

to 11.29.40 (Numbers not used)

Physics with Teaching

BSc with Honours in Physics with Teaching

BSc in Physics with Teaching

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.29.41 The courses are offered at Degree level only as four year (full-time) courses. All students are admitted in the first instance as Honours students. Transfer to the degree of BSc in Physics is possible at any time, subject to satisfying the appropriate progress regulations.

Mode of Study

11.29.42 The courses are available by both full-time and part-time study.

Place of Study

11.29.43 The School Experience classes will involve placements in schools. To be eligible to undertake school experience, a student must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Curriculum (Full-time study)

The first and second year curricula are the same as that for the first and second years of the BSc in Physics.

First Year

11.29.44 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PH 150	Experimental Physics	1	20
PH 151	Mechanics, Optics and Waves	1	20
PH 152	Quantum Physics and Electromagnetism	1	20
MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20
Elective Class(es)			20

Second Year

11.29.45 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 211	Mathematics 3B	2	20
PH 250	Experimental Physics	2	20
PH 251	Mechanics, Optics and Waves	2	20
PH 252	Quantum Physics and Electromagnetism	2	20
PH 254	Computational Physics	2	20
PH 258	Condensed Matter Physics	2	10
PH 259	Gases and Liquids	2	10

A student with a pass in a class may substitute another class with the approval of the Adviser of Study.

Third Year

11.29.46 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PH 352	Quantum Physics and Electromagnetism	3	20
PH 355	Physics Skills	3	20
PH 358	Condensed Matter Physics	3	10
PH 359	Statistical Physics	3	10
PH 360	Practical Physics	3	20
X9 406	Pedagogy and Placement Learning 1*	4	20
X9 494	Pedagogy and Curriculum Physics with Science 1	4	20

A student with a pass in a class may substitute another class with the approval of the Adviser of Study

*Induction Block (10 days), Serial Days (15 days), June Block (10 days)

Note: Education classes start in the last week of August, prior to the normal beginning of year 3.

Fourth Year

11.29.47 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PH 460	Physics for Teaching*	4	40
X9 458	Educational Studies 1	4	20
X9 462	Educational Studies 2	4	20
X9 463	Pedagogy and Placement Learning 2**	4	20
X9 499	Pedagogy and Curriculum Physics with Science 2	4	20

*Physics for Teaching comprises

Either

PH 450	Project	4	40
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Or

PH 461	Physics with Teaching Project	4	20
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Together with 20 credits chosen from the optional Level 4 classes listed in Regulation 11.17.6 or as approved by the Course Director.

** Block Placement 1 – Feb/Mar (31 days) ** Block Placement 2 – April/May (17 days)

Note: Education classes start in the first week of October.

Curriculum (Part-time study)

11.29.48 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress (Full-time study)

11.29.49 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.29.50 In order to progress to the third year of the course, a student must satisfy the requirements for entering Initial Teacher Education, be a member of the PVG (Protection Vulnerable Groups) Scheme or, if already a member, must apply for an update and have accumulated at least 220 credits from the course curriculum.

11.29.51 In order to progress to the fourth year of the Honours course, a student must normally have accumulated at least 360 credits from the course curriculum including 60 credits at Level 3 or above.

Progress (Part-time study)

11.29.52 Students studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits.

Final Honours Classification

11.29.53 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and optional Level 3 and Level 4 classes;
- (ii) if appropriate, an oral examination.

Award

- 11.29.54 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Physics with Teaching a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include
- (i) the credits for all the compulsory Level 4 Education classes taken individually;
 - (ii) no fewer than 200 credits at Levels 3 and 4 with at least 160 credits at Level 4.
- 11.29.55 **BSc:** In order to qualify for the award of the degree of BSc in Physics with Teaching a candidate must have accumulated no fewer than 440 credits from the course curriculum including the credits for all the compulsory Level 4 Education classes.
- 11.29.56 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Physics, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.29.57 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Physics, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

- 11.29.58 A candidate who fails to satisfy the progress or award requirement for the degree of BSc with Honours in Physics with Teaching or the BSc in Physics with Teaching may be transferred to the degree of BSc in Physics.
- 11.29.59
to 11.29.60 (Numbers not used)

Bioscience with Teaching

BSc with Honours in Bioscience with Teaching BSc in Bioscience with Teaching

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.29.61 The courses are offered at degree level only, as four year (full-time) courses. All students are admitted in the first instance as Honours students. Transfer to a BSc degree in Biological Sciences or in Biomedical Sciences is possible at any time, subject to satisfying the appropriate progress regulations.

Mode of Study

- 11.29.62 The courses are available by full-time study only.

Place of Study

- 11.29.63 The School Experience classes will involve placements in schools. To be eligible to undertake school experience, a student must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Curriculum

First Year

11.29.64 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 101	Foundation Bioscience and Statistics	1	20
BM 102	Molecular Bioscience	1	20
BM 103	Biology of Organisms	1	20
BM 104	Practical Bioscience and Skills Development 1	1	20
CH 105	Chemistry for Bioscience	1	20
Elective Classes			20

Second Year

11.29.65 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 201	Introduction to Infection and Immunity	2	20
BM 202	Nutritional Biochemistry and Metabolism	2	20
BM 203	Cell and Molecular Biology	2	20
BM 204	Practical Bioscience and Skills Development 2	2	20
BM 205	Human Physiology	2	20
CH 201	Bio-organic Chemistry	2	20

Third Year

11.29.66 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 303	Fundamental Microbiology	3	20
BM 305	Clinical Biochemistry and Molecular Genetics	3	20
BM 306	Proteins and Enzymes	3	20
BM 311	Practical Bioscience and Skills Development 3	3	20
X9 406	Pedagogy and Placement Learning 1*	4	20
X9 606	Pedagogy and Curriculum Biology with Science 1	4	20

*Induction Block (10 days), Serial Days (15 days), June Block (10 days)

Note: Education classes start in the last week of August, prior to the normal beginning of year 3.

Fourth Year

11.29.67 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 413	Bioscience	4	40
X9 458	Educational Studies 1	4	20
X9 462	Educational Studies 2	4	20
X9 463	Pedagogy and Placement Learning 2*	4	20
X9 634	Curriculum and Pedagogy Biology with Science 2	4	20

* Block Placement 1: Feb/Mar (31 days), Block Placement 2: April/May (17 days)

Note: Education classes start in the first week of October.

Progress

- 11.29.68 In order to progress to the second year of the course, a student must normally have accumulated at least 100 credits from the course curriculum including no fewer than 80 from the compulsory classes
- 11.29.69 In order to progress to the third year of the course, a student must satisfy the requirements for entering Initial Teacher Education, be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update and have accumulated at least 220 credits from the course curriculum.
- 11.29.70 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including those for all Education classes in the third year curriculum and at least 60 credits from the compulsory Bioscience classes in the third year curriculum.

Final Honours Classification

- 11.29.71 The final Honours classification will normally be based on:
- (i) the first assessed attempt at compulsory and optional classes taken in the third and fourth years.
 - (ii) if appropriate, an oral examination.

Award

- 11.29.72 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Bioscience with Teaching, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include
- (i) the credits for all the compulsory Level 4 Education classes taken individually;
 - (ii) no fewer than 180 credits at Level 3 or above of which a minimum of 170 must be at Level 4 or above.
- 11.29.73 **BSc:** In order to qualify for the award of the degree of BSc in Bioscience with Teaching, a candidate must have accumulated no fewer than 450 credits from the course curriculum including the credits for all the compulsory Education classes taken individually.

Transfer

- 11.29.74 A candidate who fails to satisfy the progress or award requirements for the degree of BSc with Honours in Bioscience with Teaching or the BSc in Bioscience with Teaching may be transferred to the degree of BSc in Biological Science subject to satisfying the appropriate progress regulations.

11.30 Faculties of Science and Engineering: Joint Courses

Computer and Electronic Systems

BEng with Honours in Computer and Electronic Systems

BEng in Computer and Electronic Systems

Diploma of Higher Education in Computer and Electronic Systems

Certificate of Higher Education in Computer and Electronic Systems

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.30.1 All students are normally admitted in the first instance as potential Honours students. Transfer to the MEng degree in Computer and Electronic Systems is possible prior to the fourth year of study subject to satisfying the appropriate progress regulations.

Mode of Study

- 11.30.2 The courses are available by full-time study only.

Curriculum

First Year

- 11.30.3 All students shall undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
56 110	Engineering Industry and Profession	1	10
CS 103	Machines, Languages and Computation	1	20
CS 105	Programming Foundations	1	20
CS 107	Fundamentals of Computer Systems	1	10
EE 105	Electronic and Electrical Techniques and Design 1	1	20
EE 107	Electronic and Electrical Principles 1	1	20
MM 113	Engineering Mathematics 1E	1	20
MM 114	Engineering Mathematics 2E	1	20

Second Year

- 11.30.4 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
56 213	Engineering Design and Manufacture	2	10
CS 207	Advanced Programming	2	20
CS 210	Computer Systems and Architecture	2	20
EE 269	Electronic and Electrical Principles 2	2	20
EE 270	Digital Electronic Systems	2	20
MM 213	Engineering Mathematics 3E	2	20

Optional Classes

20 credits chosen from:

CS 208	Logic and Algorithms	2	20
PH260	Physical Electronics	2	10
19207	Electromagnetism	2	10

Third Year

11.30.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 308	Building Software Systems	3	20
CS 313	Computer Systems and Concurrency	3	20
EE 320	Signals and Communication Systems	3	20
56 324	Engineering Innovation and Management	3	10
CX 318	Computer and Electronic Systems Project	3	10
Elective Class(es)			20
Optional Classes			
20 credits chosen from:			
CS 310	Foundations of Artificial Intelligence	3	20
CS 311	Programming Language Definition & Implementation	3	20
EE 312	Instrumentation and Microcontrollers	3	20
EE 315	Analogue and Digital System Design	3	20
EE 313	Engineering Analysis	3	20

Fourth Year

11.30.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
EE 475	CES Individual Project	4	40

80 credits chosen from Regulation 11.30.7.

11.30.7 Optional Classes

CS 409	Software Architecture and Design	4	20
CS 411	Theory of Computation	4	20
CS 413	Embedded Systems	4	20
CS 414	Digital Forensics	4	20
EE 468	Analogue Systems	4	20
EE 469	DSP Principles	4	20
EE 470	Information Transmission & Security	4	20
EE 471	Communications Networks	4	20
EE 472	Control Principles	4	20
EE 473	Photonic Systems	4	20

Such other classes offered by the Department of Computer and Information Sciences, the Department of Electronic and Electrical Engineering, or both, and totalling no more than 20 credits as may be approved by the Course Director.

Progress

- 11.30.8 In order to progress to the second year of the course, a student must have accumulated no fewer than 120 credits from the course curriculum.
- 11.30.9 In order to progress to the third year of the BEng with Honours degree, a student must have accumulated no fewer than 250 credits from the course curriculum.
- 11.30.10 In order to progress to the third year of the BEng degree, a student must have accumulated no fewer than 240 credits from the course curriculum.
- 11.30.11 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 390 credits from the course curriculum.

Final Honours Classification

- 11.30.12 The final Honours classification will normally be based on:
- (i) the first assessed attempt at all classes at Levels three and four;
 - (ii) if appropriate, an oral examination.

Award

- 11.30.13 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Computer and Electronic Systems, a candidate must have accumulated no fewer than 510 credits from the course curriculum. These must include those for the class *EE 475 Individual CES Project*.
- 11.30.14 **BEng:** In order to qualify for the award of the degree of BEng in Computer and Electronic Systems, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.30.15 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Computer and Electronic Systems, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.30.16 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Computer and Electronic Systems, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.31
to 11.39 (Numbers not used)

Faculty of Engineering

11.40 Faculty Courses

Engineering Studies

BEng in Engineering Studies

Diploma of Higher Education in Engineering Studies

Certificate of Higher Education in Engineering Studies

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.40.1 The courses are offered to BEng degree level only. All students are normally admitted in the first instance as potential Honours students on another degree course within the Faculty of Engineering. Transfer to the BEng in Engineering Studies is possible at any time.

Mode of Study

11.40.2 The courses are available by full-time and part-time study.

Curriculum (Full-time study)

First Year

11.40.3 All students shall undertake classes amounting to 120 credits as follows:

Optional Classes	Level	Credits
Engineering Classes	1	100
Elective Class(es)		20

Second Year

11.40.4 All students shall undertake classes amounting to 120 credits as follows:

Optional Classes	Level	Credits
Engineering Classes	2	60
Engineering Classes	1 or 2	40
Elective Class(es)		20

Third Year

11.40.5 All students shall undertake classes amounting to 120 credits as follows:

Optional Classes	Level	Credits
Engineering Classes	3	60
Engineering Classes	2 or 3	40
Elective Class(es)		20

Curriculum (Part-time study)

11.40.6 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress (Full-time study)

- 11.40.7 In order to progress to the second year of the course, a student must have achieved 100 credits from the course curriculum.
- 11.40.8 In order to progress to the third year of the course, a student must normally have accumulated at least 220 credits from the course curriculum.

Progress (Part-time study)

- 11.40.9 Students studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits.

Award

- 11.40.10 **BEng:** In order to qualify for the award of the degree of BEng in Engineering Studies, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.40.11 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Engineering Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.40.12 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of higher education, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.41 Department of Architecture

Architectural Studies

BSc with Honours in Architectural Studies

BSc with Honours in Architectural Studies with International Study

BSc in Architectural Studies

BSc in Architectural Studies with International Study

Diploma of Higher Education in Architectural Studies

Certificate of Higher Education in Architectural Studies

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.41.1 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.41.2 The courses are available by full-time study only.

Place of Study

11.41.3 The BSc in Architectural Studies with International Study requires study at an approved institution abroad.

Assessment

11.41.4 In addition to the requirements of Regulation 11.1.27, in years 1, 2 and 3, a portfolio review may contribute to the assessment of Architecture classes.

Curriculum

First Year

11.41.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 106	Design Studies 1A	1	20
AB 107	Design Studies 1B	1	20
AB 108	Design Studies 1C	1	20
AB 109	Design Studies 1D	1	20
AB 110	Cultural Studies 1	1	20
AB 111	Technology Studies 1	1	20

Second Year

11.41.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 208	Design Studies 2A	2	20
AB 209	Design Studies 2B	2	20
AB 210	Design Studies 2C	2	20
AB 211	Cultural Studies 2	2	20
AB 212	Technology Studies 2	2	20

Elective Class(es) 20

Third Year

11.41.7 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 317	Design Studies 3A	3	20
AB 318	Design Studies 3B	3	40
AB 314	Cultural Studies 3	3	20
AB 315	Introduction to Practice	3	20
AB 316	Technology Studies 3	3	20

Architectural Studies with International Study

All students will be required to undertake a period of study abroad at an approved institution and shall follow an approved curriculum of at least 40 credits which shall normally include the equivalent of the following class:

AB 318	Design Studies 3B	3	40
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Intercalated Year

11.41.8 Following successful completion of the third year, students are normally required, as part of professional accreditation, to undertake a year in Professional Practice before proceeding to fourth year.

Fourth Year

11.41.9 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 418	Design Studies 4A	4	20
AB 419	Design Studies 4B	4	40
AB 420	Cultural Studies 4	4	40
AB 421	Special Study Project	4	20

Progress

11.41.10 In order to progress to the second year of the chosen course, a student must have accumulated at least 120 credits from the course curriculum.

11.41.11 In order to progress to the third year of the Architectural Studies course, a student must have accumulated at least 220 credits from the course curriculum including those for all second year compulsory classes.

11.41.12 In order to progress to the third year of the Architectural Studies with International Study course, a student must have accumulated at least 220 credits from the course curriculum including those for all second year compulsory classes.

11.41.13 In order to progress to the fourth year of the chosen course, a student must have accumulated at least 360 credits from the course curriculum.

A student on the Architectural Studies with International Study course must have satisfactorily completed at least one semester at an approved institution abroad.

Final Honours Classification

11.41.14 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory classes which are taken in the fourth year;

(ii) if appropriate, an oral examination.

Award

11.41.15 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in the chosen course, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

11.41.16 **BSc:** In order to qualify for the award of the degree of BSc in Architectural Studies, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.41.17 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Architectural Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.41.18 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Architectural Studies, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.41.19 A candidate who fails to satisfy the progress or award requirements for the BSc in Architectural Studies or Architectural Studies with International Study may be transferred to the degree of BEng in Engineering Studies.

11.42 (Number not used)

11.42 Department of Biomedical Engineering

Biomedical Engineering

BEng with Honours in Biomedical Engineering

BEng in Biomedical Engineering

Diploma of Higher Education in Biomedical Engineering

Certificate of Higher Education in Biomedical Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.42.1 All students are normally admitted in the first instance as potential Honours students. Transfer to the MEng degree course in Biomedical Engineering is possible prior to the fourth year of study subject to satisfying the appropriate progress requirements.

Mode of Study

11.42.2 The courses are available by full-time study only.

Curriculum

First Year

11.42.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16165	Engineering Analysis 1	1	10
BE100	Anatomy and Physiology for Biomedical Engineers	1	20
BE101	Biomedical Engineering	1	10
BE103	Analytical and Numerical Methods in Biomedical Engineering	1	20
BM102	Molecular Bioscience	1	20
EE107	Electronic and Electrical Principles 1	1	20
EM105	Electrical and Mechanical techniques and design	1	20

Second Year

11.42.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE200	Engineering Mechanics in Biomedical Engineering	2	20
BM203	Cell and Molecular Biology	2	20
EE269	Electronic and Electrical Principles 2	2	20
EE 270	Digital Electronic Systems	2	20
ME 209	Mathematical Modelling and Analysis	2	20
ME 211	Materials, Design and Engineering Applications	2 2	20

Third Year

11.42.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE302	Practical Biomechanics	3	20
BE300	Biomedical Materials	3	20
BE301	Physiological Systems in Health and Disease	3	20
BM301	Fundamental Immunology	3	20
EE312	Instrumentation and Microcontrollers	3	20
Elective			20

Fourth Year

11.42.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE406	Biomedical Engineering project	4	40
BE403	Research Methods in BME	4	10
BE402	Professional Studies in BME	4	10
BE404	Biomedical Instrumentation	4	10
BE401	Biomedical Electronics	4	10

Optional Classes

40 credits chosen from

16429	Computer Aided Engineering Design	4	20
BE405	Sports Injury and Rehabilitation	4	20
BE400	Advanced topics in Human movement	4	20
BE4XX	Assistive Technologies	4	20
EE472	Control Principles	4	20
EE474	Robotics: systems and control	4	20
ME411	Advanced Mechanics and dynamics	4	20

Progress

11.42.7 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum

11.42.8 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.

11.42.9 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum.

Final Assessment and Classification

11.42.10 The final Honours classification will normally be based on the first assessed attempt at compulsory and specified optional classes in the second, third and fourth years.

Award

11.42.11 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Biomedical Engineering, a candidate must have accumulated no fewer than 480 credits from the course curriculum, including all compulsory classes. No fewer than 100 credits must be at Level 4 or above.

11.42.12 **BEng:** In order to qualify for the award of the degree of BEng in Biomedical Engineering, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

- 11.42.13 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Biomedical Engineering a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.42.14 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Biomedical Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.42.15 **Transfer**
A candidate who fails to satisfy the progress or award requirements for the BEng in Biomedical Engineering may be transferred to the degree of BEng in Engineering Studies.

BSc with Honours in Prosthetics and Orthotics

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Course

11.42.16 The course is offered at Honours level only. Transfer to the MSci in Prosthetics and Orthotics may be possible at the end of the third year of study.

Mode of Study

11.42.17 The course is available by full-time study only.

Place of Study

11.42.18 The Clinical Placement in both Prosthetics and Orthotics will be conducted in approved hospital-based prosthetic and orthotic centres and will comprise an approved programme of clinical experience. Students must apply for membership of the PVG (Protecting Vulnerable Groups) Scheme managed by Disclosure Scotland; or if already a member must apply for an update.

Curriculum

First Year

11.42.19 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
94 154	Principles of Prosthetic and Orthotic Design 1	1	20
94 156	Introduction to Health Services Research	1	20
94 157	Human Biological Sciences 1	1	20
94 160	Foundations for Practice in Health and Social Care	1	20
94 161	Prosthetic and Orthotic Professional and Technical Skills 1	1	20
94 204	Prosthetics and Orthotics Science 1*	2	20

* *Patient-based clinical education and practice.*

Second Year

11.42.20 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
94 205	Professional Skills for Healthcare 2	2	10
94 206	Human Biological Sciences 2	2	20
94 207	Principles of Prosthetic and Orthotic Design 2	2	20
94 208	Prosthetics and Orthotics Science 2*	2	60

* *Patient-based clinical education and practice.*

Elective Class 10

Third Year

11.42.21 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes	Level	Credits
94 303 Human Biological Sciences 3	3	10
94 304 Principles of Prosthetic & Orthotic Design 3	3	10
94 xxx Prosthetic & Orthotic Science 3 with Applied Health Service Research	3	40
94 403 Prosthetics/Orthotics Clinical Placement 1*	4	60

* *Patient-based clinical education and practice*

Fourth Year

11.42.22 All students shall undertake classes amounting 120 credits as follows:

Compulsory Classes		
94 404 Prosthetics/Orthotics Clinical Placement 2*	4	60
94 405 Project	4	40
Elective Class		10
Optional Classes		
10 credits chosen from:		
94 406 Wheelchairs and Seating	4	10
94 407 Upper Limb Prosthetics	4	10
94 408 Hip, Knee & Ankle Disarticulation Prosthetics	4	10
94 409 Lower Limb Prosthetic Design	4	10
94 410 Orthotic Management of Spinal Deformity	4	10
94 411 Orthotic Management of Neurological Conditions	4	10
94 412 Clinical Governance	4	10
94 413 Clinical Gait Analysis	4	10

* The Clinical Placement in both Prosthetics and Orthotics will be conducted in approved prosthetic and orthotic clinical centres and will consist of an approved programme of clinical experience.

Progress

11.42.23 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes *94 204 Prosthetics and Orthotics Science 1*, *94 157 Human Biological Sciences 1*, *94 154 Principles of Prosthetic and Orthotic Design 1*, *94 156 Introduction to Health Services Research* and *94 161 Prosthetic and Orthotic Professional & Technical Skills 1*.

11.42.24 In order to progress to the third year of the course, a student must have accumulated at least 230 credits from the course curriculum including those for all of the compulsory classes.

11.42.25 In order to progress to the fourth year of the course, a student must have accumulated 360 credits from the course curriculum.

Final Honours Classification

11.42.26 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory classes in the second, third and fourth years;
- (ii) clinical, laboratory and project work in the second, third, fourth and years;
- (iii) clinical oral examinations following placements in Prosthetics and Orthotics in the third and fourth year;
- (iv) individual project work in the fourth year;
- (v) if appropriate, an oral examination.

Award

11.42.27 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Prosthetics and Orthotics, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include a minimum of 160 credits at Level 4.

Transfer

11.42.28 A candidate who fails to satisfy the progress or award requirements for the BSc with Honours in Prosthetics and Orthotics may be transferred to the degree of BEng in Engineering Studies.

11.43 Department of Chemical and Process Engineering

Chemical Engineering

BEng with Honours in Chemical Engineering

BEng in Chemical Engineering

Diploma of Higher Education in Chemical Engineering

Certificate of Higher Education in Chemical Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.43.1 All students are normally admitted in the first instance as potential Honours students. Transfer between the courses and to the MEng in Chemical Engineering is possible prior to the fourth year of study, subject to satisfying the appropriate progress regulations.

Mode of Study

11.43.2 The courses are available by full-time study only.

Curriculum

First Year

11.43.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 106	Chemistry: Principles and Practice 1	1	20
CP 101	Basic Principles in Chemical Engineering	1	20
CP 102	Chemical Engineering: Fundamentals, Techniques and Tools	1	20
MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20
Elective Class(es)			20

Second Year

11.43.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CP 203	Thermodynamic and Chemical Principles	2	20
CP 204	Fluid Flow and Heat Transfer	2	20
CP 205	Safety and Project Management	2	20
CP 206	Chemical Engineering Practice 1	2	20
CP 207	Process Analysis and Statistics	2	20
MM 211	Mathematics 3B	2	20

Third Year

11.43.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CP 302	Mass Transfer and Separation Processes	3	20

CP 303	Materials Processing and Applications	3	20
CP 304	Reactors and Biochemical Engineering	3	20
CP 305	Ethics, Sustainability, and Economics	3	20
CP 306	Chemical Engineering Design and Advanced Information Technology	3	20
CP 307	Chemical Engineering Practice 2	3	20

Fourth Year

11.43.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CP 404	Particle Technology and Multiphase Systems	4	20
CP 405	Process Control and Environmental Technology	4	20
CP 407	Chemical Engineering Design	4	60
CP 409	Advanced Separations and Problem Solving	4	20

Progress

11.43.7 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.43.8 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum, including at least 120 credits from Level 1 and 100 from Level 2.

11.43.9 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum, including at least 120 credits from Level 2 and 100 from Level 3.

Final Assessment and Honours Classification

11.43.10 On successful completion of the fourth year, a candidate will be awarded Level 4 credits corresponding to the classes taken.

11.43.11 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory classes taken in the second, third and fourth years;
- (ii) if appropriate, an oral examination.

Award

11.43.12 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Chemical Engineering, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

11.43.13 **BEng:** In order to qualify for the award of the degree of BEng in Chemical Engineering a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.43.14 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Chemical Engineering, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.43.15 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Chemical Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.43.16 A candidate who fails to satisfy the progress or award requirements for the BEng in Chemical Engineering may be transferred to the degree of BEng in Engineering Studies.

11.43.17

to 11.43.30 (Numbers not used)

Chemical Engineering

BEng with Honours in Chemical Engineering by Distance Learning BEng in Chemical Engineering by Distance Learning

Course Regulations

[These regulations are to be read in conjunction with Regulation 15.1]

Admission

11.43.31 The normal qualification for entry to the course is possession of an HNC in Chemical Engineering plus related work experience, an HND in Chemical Engineering or a degree in another discipline; other qualifications may be considered. Students thus qualified are normally awarded 240 credits through credit transfer and/or RPL.

Status of the Courses

11.43.32 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.43.33 The courses are available by distance learning only.

Duration of Study

11.43.34 The normal duration of study is 3 years and the maximum is 6 years.

Curriculum

First Year

11.43.35 All students shall undertake classes amounting to no fewer than 60 credits as follows:

Compulsory Classes	Level	Credits
CP 103 Basic Principles of Chemical Engineering, Mathematics and Thermodynamics	1	20
CP 208 Fluid Flow and Heat Transfer	2	20
CP 309 Safety and Project Management	3	20

Second Year

11.43.36 All students shall undertake classes amounting to no fewer than 80 credits as follows:

Compulsory Classes	Level	Credits
CP 209 Process Analysis and Statistics	2	20
CP 314 Mass Transfer and Separation Processes	3	20
CP 310 Process Design and Simulation	3	20
CP 313 Reactors and Biochemical Engineering	3	20

Third Year

11.43.37 All students shall undertake classes amounting to no fewer than 100 credits as follows:

Compulsory Classes		Level	Credits
CP 411	Process Control and Environmental Technology	4	20
CP 412	Advanced Separations and Problem Solving	4	20
CP 413	Chemical Engineering Design	4	60

Progress

11.43.38 In order to progress to the second year of the course, a student must normally have accumulated no fewer than 280 credits including no fewer than 40 credits from the first year curriculum.

11.43.39 In order to progress to the third year of the course, a student must normally have accumulated no fewer than 360 credits including no fewer than 120 credits from the first and second year curriculum. In addition, a student must have achieved an approved standard of performance with regard to level of study and academic attainment.

Final Honours Classification

11.43.40 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes which are taken in the second and third years;
- (ii) if appropriate, an oral examination.

Award

11.43.41 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Chemical Engineering by Distance Learning, a candidate must have accumulated no fewer than 480 credits including no fewer than 240 from the course curriculum. These must include no fewer than 180 credits at Levels 3 and 4 of which a minimum of 100 must be at Level 4.

11.43.42 **BEng:** In order to qualify for the award of the degree of BEng in Chemical Engineering by Distance Learning, a candidate must have accumulated no fewer than 360 credits including no fewer than 120 from the course curriculum. These must include no fewer than 60 credits at Level 3 or above.

11.44 Department of Civil and Environmental Engineering

Structural and Architectural Engineering

BEng with Honours in Structural and Architectural Engineering

BEng in Structural and Architectural Engineering

Diploma of Higher Education in Structural and Architectural

Engineering

Certificate of Higher Education in Structural and Architectural

Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.44.1 All students are normally admitted in the first instance as potential Honours students. Transfer to the MEng in Structural and Architectural Engineering is possible prior to the fourth year of study, subject to satisfying the appropriate progress regulations.

Mode of Study

11.44.2 The courses are available by full-time study only.

Curriculum

First Year

11.44.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 110	Cultural Studies 1	1	20
CL 111	Structural Mechanics and Materials 1	1	20
CL 119	Introduction to Geology and Soil Mechanics	1	20
CL 117	Basic Mechanics	1	10
ME 101	Heat and Flow 1	1	10
MM 115	Mathematics 1D	1	20
Elective Class(es)			20

Second Year

11.44.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 211	Cultural Studies 2	2	20
CL 207	Structural Mechanics and Materials 2	2	20
CL 217	Soil Mechanics	2	20
CL 216	Hydraulics and Hydrology	2	20
16 293	Environmental Engineering Science	2	10
16 294	Energy Systems 1	2	10
MM 215	Mathematics 2D	2	20

Third Year

11.44.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 314	Cultural Studies 3	3	20
CL 313	Structural Engineering 1	3	20
CL 314	Geotechnical Engineering 1	3	20
CL 317	Construction Management	3	20
CL 324	Surveying and Building Design	3	20
16 387	Environmental Engineering Science 2	3	10
16 390	Energy Systems 2	3	10

Fourth Year

11.44.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 469	Low Energy Building Design	4	20
CL 434	Individual Project	4	20
CL 418	Structural Engineering 2	4	20
CL 419	Geotechnical Engineering 2	4	20
CL435	Prestressed Concrete, Composite Materials and Structural Stability	4	10

Optional Classes

No fewer than 30 credits chosen from:

CL 421	Environmental Engineering 2	4	20
CL 422	Transport Planning	4	20
CL 428	Architectural Engineering Design Project	4	10
16 468	Acoustics	4	10
ME 404	Energy Systems Modelling	4	10

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director.

Progress

11.44.7 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.44.8 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum

11.44.9 In order to progress to the fourth year a student must have accumulated at least 360 credits from the course curriculum.

Final Assessment and Honours Classification

11.44.10 On successful completion of the fourth year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.

11.44.11 The Final Honours Classification will normally be based on: the first assessed attempt at compulsory and approved optional classes that are taken in the second, third and fourth years;

Award

- 11.44.12 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Structural and Architectural Engineering, a candidate must have accumulated no fewer than 480 credits from the course curriculum including those for the class CL 434 Individual Project.
- 11.44.13 **BEng:** In order to qualify for the award of the degree of BEng in Structural and Architectural Engineering, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.44.14 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Structural and Architectural Engineering, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.44.15 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Structural and Architectural Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.44.16 **Transfer**
A candidate who fails to satisfy the progress or award requirements for the BEng in Structural and Architectural Engineering may be transferred to the degree of BEng in Engineering Studies.
- 11.44.17
to 11.44.20 (Numbers not used)

Civil Engineering

BEng with Honours in Civil Engineering
BEng with Honours in Civil and Environmental Engineering
BEng in Civil Engineering
BEng in Civil and Environmental Engineering
Diploma of Higher Education in Civil Engineering
Certificate of Higher Education in Civil Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.44.21 All students are normally admitted in the first instance as potential Honours students. Transfer to the degree of MEng in the chosen course is possible prior to the fourth year of study, subject to satisfying the appropriate progress regulations. Transfer between the BEng degrees is possible prior to the third year of study, subject to satisfying the appropriate progress requirements.

Mode of Study

- 11.44.22 The courses are available by full-time study only.

Curriculum

First Year

- 11.44.23 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CL 111	Structural Mechanics and Materials 1	1	20
CL 119	Introduction to Geology and Soil Mechanics	1	20
CL 114	Civil Engineering Design Projects	1	20
CL 118	Basic Mechanics and Fluid Statics	1	20
MM 115	Mathematics 1D	1	20

Elective Class(es) 20

Second Year

11.44.24 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CL 207	Structural Mechanics and Materials 2	2	20
CL 217	Soil Mechanics	2	20
CL 209	Land Surveying and Mapping	2	20
CL 218	Chemistry and Materials Science	2	20
CL 216	Hydraulics and Hydrology	2	20
MM 215	Mathematics 2D	2	20

Third Year

11.44.25 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CL 313	Structural Engineering 1	3	20
CL 314	Geotechnical Engineering 1	3	20
CL 315	Water Engineering 1	3	20
CL 316	Environmental Engineering 1	3	20

together with classes appropriate to the chosen course:

Civil Engineering

Compulsory Classes

CL 317	Construction Management	3	20
CL 318	Transport Engineering	3	20

Civil and Environmental Engineering

Compulsory Classes

CL 321	Atmospheric Pollution	3	20
and either			
CL 317	Construction Management	3	20
or			
CL 318	Transport Engineering	3	20

Fourth Year

11.44.26 All students shall undertake classes amounting to 120 credits as follows:

Civil Engineering

Compulsory Classes		Level	Credits
CL 434	Individual Project	4	20
CL 419	Geotechnical Engineering 2	4	20

CL 420	Water Engineering 2	4	20
CL 418	Structural Engineering 2	4	20
CL435	Prestressed Concrete, Composite Materials and Structural Stability	4	10
Civil and Environmental Engineering			
CL 421	Environmental Engineering 2	4	20

Optional Classes

Civil Engineering

No fewer than 30 credits chosen from Lists A and B in Regulation 11.44.XX

Civil and Environmental Engineering

No fewer than 40 credits chosen from Lists A and B in Regulation 11.44.XX of which at least 20 must be chosen from List B.

List A: Civil Engineering

CL 422	Transport Planning	4	20
CL 418	Structural Engineering 2	4	20
CL435	Prestressed Concrete, Composite Materials and Structural Stability	4	10

List B: Environmental Engineering

CL 421	Environmental Engineering 2	4	20
CL 413	Solid Waste Management	4	10
CL 430	Principles of Environmental Microbiology	4	10
CL 431	Pollution and Rehabilitation of Degraded Ecosystems	4	10

Progress

- 11.44.27 In order to progress to the second year of the chosen course, a student must have accumulated at least 100 credits from the course curriculum.
- 11.44.28 In order to progress to the third year of the chosen course, a student must have accumulated at least 220 credits from the course curriculum.
- 11.44.29 In order to progress to the fourth year of the chosen course, a student must have obtained at least 360 credits from the course curriculum.

Final Assessment and Honours Classification

- 11.44.30 On successful completion of the fourth year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.
- 11.44.31 The final Honours classification for the degree of BEng in the chosen course will normally be based on:
(the first assessed attempt at compulsory and approved optional classes which are taken in the second, third, and fourth years,

Award

- 11.44.32 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in the chosen course, a candidate must have accumulated no

fewer than 480 credits from the course curriculum including those for the class CL 434 Individual Project.

11.44.33 **BEng:** In order to qualify for the award of the degree of BEng in the chosen course, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.44.34 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Civil Engineering, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.44.35 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Civil Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.44.36 A candidate who fails to satisfy the progress or award requirements for the BEng in Civil Engineering or BEng in Civil and Environmental Engineering may be transferred to a degree of BEng in Engineering Studies.

11.44.37

to 11.44.40 (Numbers not used.)

Environmental Health

BSc with Honours in Environmental Health

BSc in Environmental Health

Diploma of Higher Education in Environmental Health

Certificate of Higher Education in Environmental Health

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.44.41 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.44.42 The courses are available by full-time study only.

Curriculum

First Year

11.44.43 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 102	Molecular Bioscience	1	20
BM 103	Biology of Organisms	1	20
BM 104	Practical Bioscience	1	20
CH 105	Chemistry for Bioscience	1	20
CL 113	Introduction to the Environment and Health	1	20
Optional Classes			
20 credits chosen from			
BM 101	Foundation Bioscience and Statistics	1	20
MM 116	Mathematics 1C	1	20

Second Year

11.44.44 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 201	Introduction to Infection and Immunity	2	20
BM 205	Human Physiology	2	20
16 293	Environmental Engineering Science 1	2	10
CL 203	Public Health Studies	2	10
CL 215	Statistics and Model Analysis	2	20

Optional classes

20 credits chosen from:

BM 210	Nutritional Biochemistry and Metabolism	2	20
CL 214	Environmental Monitoring and Analysis	2	20

Elective Class(es) 20

Third Year

11.44.45 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 312	Medical and Food Microbiology	3	20
CL 320	Occupational Health and Safety	3	20
CL 321	Atmospheric Pollution	3	20
CL 322	Food Inspection and Pest Control	3	20
CL 323	Housing Policy and Research Methods	3	20
CL 325	Solid Waste, Water and Environmental Management	3	20

Fourth Year

11.44.46 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 469	Acoustics	4	10
BM 205	Human Physiology	2	20
CL 433	Contaminated Land Management	4	20
CL 425	Final Year Research Project	4	40
CL 426	Food Safety and Meat Hygiene	4	20
EV 405	Applied Strategic Environmental Assessment	4	10

Progress

11.44.47 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.44.48 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.

11.44.49 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum.

Final Assessment and Honours Classification

11.44.50 On successful completion of the fourth year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.

11.44.51 The final Honours classification will normally be based on the first assessed attempt at compulsory classes which are taken in the third and fourth years.

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Award

11.44.52 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Environmental Health, a candidate must have accumulated no fewer than 480 credits from the course curriculum including those for the class *CL 425 Final Year Research Project*.

11.44.53 **BSc:** In order to qualify for the award of the degree of BSc in Environmental Health, a candidate must have accumulated no fewer than 360 credits from the course curriculum

11.44.54 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Environmental Health, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.44.55 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Environmental Health, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.44.56 A candidate who fails to satisfy the progress or award requirements for the BSc in Environmental Health may be transferred to the degree of BEng in Engineering Studies.

11.45 Department of Design, Manufacture and Engineering Management

Product Design Engineering

BEng with Honours in Product Design Engineering

BEng in Product Design Engineering

Diploma of Higher Education in Product Design Engineering

Certificate of Higher Education in Product Design Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.45.1 All students are normally admitted in the first instance as potential Honours students. Transfer to the MEng degree of Product Design Engineering is possible up to the end of third year subject to satisfying the appropriate progress requirements.

Mode of Study

11.45.2 The courses are available by full-time study only.

Curriculum

First Year

11.45.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 132	Engineering Mechanics 1	1	20
DM 100	Design 1	1	20
DM 101	Integrating Studies 1	1	20
DM 102	Introduction to Production Engineering and Management	1	20
MM 115	Mathematics 1D	1	20
Elective Class(es)			20

Second Year

11.45.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 155	Engineering Materials	1	10
19 222	Electrical Machines and Control	2	10
19 260	Electrical and Electronic Engineering	2	10
DM 200	Design 2	2	20
DM 202	Design and Manufacturing Management	2	20
DM 204	Integrating Studies 2	2	20
DM 205	Production Techniques 1	2	20
ME 101	Heat and Flow	1	10

Third Year

11.45.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 303	Engineering Design	3	20
DM 304	Integrating Studies 3	3	20
DM 306	Product Development	3	20
DM 308	Production Techniques 2	3	20
DM 309	Mechatronics Design and Applications	3	20

Optional Classes

20 credits at Level 3 or 4 chosen from the list of optional classes in Regulation 11.45.7

Fourth Year

11.45.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 400	Advanced Design Methods	4	20
DM 401	Advanced Product Design and Manufacture	4	20
DM 402	Individual Project 1	4	40
DM 403	Industrial Group Project 1	4	20

Optional Classes

20 credits at Level 3, 4 or 5 chosen from the list of optional classes in Regulation 11.45.7.

11.45.7 Optional Classes at Levels 3, 4 and 5

DM 300	Design Emotion and Experience	3	20
DM 302	Design Interaction	3	20
DM 305	Innovation Management	3	20
DM 307	Production and Operations Management	3	20
VP 301	Vertically Integrated Project	3	10
VP 302	Vertically Integrated Project	3	10
DM 404	Quality Management	4	20
DM 406	Industrial Placement 1	4	20
DM 405	Industrial Placement 2	4	20
VP 401	Vertically Integrated Project	4	10
VP 402	Vertically Integrated Project	4	10
DM503	Global Design	5	10
DM918	People, Organisation and Technology	5	10
DM920	Strategic technology Management	5	10
DM923	Product Modelling and Visualisation	5	10
DM925	Systems Integration	5	10
DM926	Supply Chain Operations	5	10
DM929	CAED Systems	5	10
DM935	Management of Total Quality and Continuous Improvement	5	10
EF927	Design Management	5	10
EF930	Information Management	5	10
VP 501	Vertically Integrated Project	5	10
VP 502	Vertically Integrated Project	5	10

Progress

- 11.45.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 11.45.9 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including 100 credits at Level 2 or above.
- 11.45.10 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 100 credits at Level 3 or above.

Final Honours Classification

The final Honours classification will normally be based on the first assessed attempt at compulsory and, if appropriate, specified optional classes which are taken in the second, third and fourth year of the course

Award

- 11.45.12 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Product Design Engineering, a candidate must have accumulated no fewer than 480 credits from the course curriculum including those for the class *DM 402 Individual Project 1*.
- 11.45.13 **BEng:** In order to qualify for the award of the degree of BEng in Product Design Engineering, a candidate must have accumulated no fewer than 360 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 100 credits at Level 3 or above.
- 11.45.14 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Product Design Engineering, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.45.15 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Product Design Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

- 11.45.16 A candidate who fails to satisfy the progress or award requirements for the BEng in Product Design Engineering may be transferred to the degree of BEng in Engineering Studies.
- 11.45.17 to
11.45.20 (Numbers not used)

Product Design and Innovation

BSc with Honours in Product Design and Innovation

BSc in Product Design and Innovation

Diploma of Higher Education in Product Design and Innovation

Certificate of Higher Education in Product Design and Innovation

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.45.21 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.45.22 The courses are available by full-time study only.

Curriculum

First Year

11.45.23 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 100	Design1	1	20
DM 101	Integrating Studies 1	1	20
DM 102	Introduction to Production Engineering and Management	1	20
DM 103	Technology Concepts	1	20
Z1 151	Entrepreneurship: Theory and Practice	1	20
Elective Class(es)			20

Second Year

11.45.24 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 200	Design 2	2	20
DM 202	Design and Manufacturing Management	2	20
DM 203	Design Prototyping	2	20
DM 204	Integrating Studies 2	2	20
DM 205	Production Techniques 1	2	20
Z1 213	Creativity and Opportunity Identification	2	20

Third Year

11.45.25 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 300	Design Emotion and Experience	3	20
DM 302	Design Interaction	3	20
DM 304	Integrating Studies 3	3	20
DM 306	Product Development	3	20
DM 308	Production Techniques 2	3	20

Optional Classes

20 credits at Level 3 or 4 chosen from the list of optional classes in Regulation 11.45.27.

Fourth Year

11.45.26 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 400	Advanced Design Methods	4	20
DM 401	Advanced Product Design & Manufacture	4	20
DM 402	Individual Project 1	4	40
DM 403	Industrial Group Project 1	4	20

Optional Classes

20 credits at Level 3, 4 or 5 chosen from the list of optional classes in Regulation 11.45.27.

11.45.27 **Optional Classes at Levels 3, 4 and 5**

DM 303	Engineering Design	3	20
DM 305	Innovation Management	3	20
DM 307	Production and Operations Management	3	20
VP 301	Vertically Integrated Project	3	10
VP 302	Vertically Integrated Project	3	10
DM 404	Quality Management	4	20
DM 406	Industrial Placement 1	4	20
DM 405	Industrial Placement 2	4	20
VP 401	Vertically Integrated Project	4	10
VP 402	Vertically Integrated Project	4	10
DM503	Global Design	5	10
DM918	People, Organisation and Technology	5	10
DM920	Strategic technology Management	5	10
DM923	Product Modelling and Visualisation	5	10
DM925	Systems Integration	5	10
DM926	Supply Chain Operations	5	10
DM929	CAED Systems	5	10
DM935	Management of Total Quality and Continuous Improvement	5	10
EF927	Design Management	5	10
EF930	Information Management	5	10
VP 501	Vertically Integrated Project	5	10
VP 502	Vertically Integrated Project	5	10

Progress

11.45.28 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.45.29 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including no fewer than 100 credits at Level 2 or above.

11.45.30 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including no fewer than 100 credits at Level 3 or above.

Final Honours Classification

11.45.31 The final Honours classification will normally be based on the first assessed attempt at compulsory and specified optional classes which are taken in the second, third and fourth year of the course.

Award

11.45.32 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Product Design and Innovation, a candidate must have accumulated no fewer than 480 credits including those for the class *DM 402 Individual Project 1*.

11.45.33 **BSc:** In order to qualify for the award of the degree of BSc in Product Design and Innovation, a candidate must have accumulated no fewer than 360 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 100 credits at Level 3 or above.

11.45.34 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Product Design and Innovation, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.45.35 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Product Design and Innovation, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.45.36 A candidate who fails to satisfy the progress or award requirements for a degree of BSc in Product Design and Innovation may be transferred to the degree of BEng in Engineering Studies.

11.45.37

to 11.45.40 (Numbers not used)

Production Engineering and Management

BEng with Honours in Production Engineering and Management

BEng in Production Engineering and Management

Diploma of Higher Education in Production Engineering and Management

Certificate of Higher Education in Production Engineering and Management

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.45.41 All students are normally admitted in the first instance as potential Honours students. Transfer to the MEng degree of Production Engineering and

Management is possible up to the end of third year subject to satisfying the appropriate progress requirements.

Mode of Study

11.45.42 The courses are available by full-time study only.

Curriculum

First Year

11.45.43 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 132	Engineering Mechanics 1	1	20
DM 100	Design 1	1	20
DM 101	Integrating Studies 1	1	20
DM 102	Introduction to Production Engineering and Management	1	20
MM 115	Mathematics 1D	1	20
Elective Class(es)			20

Second Year

11.45.44 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 155	Engineering Materials	1	10
19 222	Electrical Machines and Control	2	10
19 260	Electrical and Electronic Engineering	2	10
DM 200	Design 2	2	20
DM 202	Design and Manufacturing Management	2	20
DM 204	Integrating Studies 2	2	20
DM 205	Production Techniques 1	2	20
ME 101	Heat and Flow	1	10

Third Year

11.45.45 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 304	Integrating Studies 3	3	20
DM 305	Innovation Management	3	20
DM 307	Production and Operations Management	3	20
DM 308	Production Techniques 2	3	20
DM 309	Mechatronics Design and Applications	3	20

Optional Classes

20 credits chosen at Level 3 or 4 chosen from the list of optional classes in Regulation 11.45.47.

Fourth Year

11.45.46 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
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DM 401	Advanced Product Design and Manufacture	4	20
DM 402	Individual Project 1	4	40
DM 403	Industrial Group Project 1	4	20
DM 404	Quality Management	4	20

Optional Classes

20 credits at Level 3, 4 or 5 chosen from the list of optional classes in Regulation 11.45.47.

Optional Classes at Levels 3, 4 and 5

11.45.47

DM 300	Design Emotion and Experience	3	20
DM 302	Design Interaction	3	20
DM 303	Engineering Design	3	20
DM 306	Product Development	3	20
VP 301	Vertically Integrated Project	3	10
VP 302	Vertically Integrated Project	3	10
DM 400	Advanced Design Methods	4	20
DM 406	Industrial Placement 1	4	20
DM 405	Industrial Placement 2	4	20
VP 401	Vertically Integrated Project	4	10
VP 402	Vertically Integrated Project	4	10
DM503	Global Design	5	10
DM918	People, Organisation and Technology	5	10
DM920	Strategic technology Management	5	10
DM923	Product Modelling and Visualisation	5	10
DM925	Systems Integration	5	10
DM926	Supply Chain Operations	5	10
DM929	CAED Systems	5	10
DM935	Management of Total Quality and Continuous Improvement	5	10
EF927	Design Management	5	10
EF930	Information Management	5	10
VP 501	Vertically Integrated Project	5	10
VP 502	Vertically Integrated Project	5	10

Progress

11.45.48 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.45.49 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including 100 credits at Level 2 or above.

11.45.50 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 100 credits at Level 3 or above.

Final Honours Classification

11.45.51 The final Honours classification will normally be based on the first assessed attempt at compulsory and, if appropriate, specified optional classes which are taken in the second, third and fourth year of the course.

Award

- 11.45.52 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Production Engineering and Management, a candidate must have accumulated no fewer than 480 credits from the course curriculum including those for the class *DM 402 Individual Project 1*.
- 11.45.53 **BEng:** In order to qualify for the award of the degree of BEng in Production Engineering and Management, a candidate must have accumulated no fewer than 360 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 100 credits at Level 3 or above.
- 11.45.54 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Production Engineering and Management, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.45.55 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Production Engineering and Management, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

- 11.45.56 A candidate who fails to satisfy the progress or award requirements for the BEng in Production Engineering and Management may be transferred to the degree of BEng in Engineering Studies.
- 11.45.57
to 11.45.60 (Numbers not used)

Sports Engineering

BEng with Honours in Sports Engineering

BEng in Sports Engineering

Diploma of Higher Education in Sports Engineering

Certificate of Higher Education in Sports Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.45.61 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

- 11.45.62 The courses are available by full-time study only.

Curriculum

First Year

- 11.45.63 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 100	Design 1	1	20
DM 101	Integrating Studies 1	1	20
DM 102	Introduction to Production Engineering and Management	1	20

DM 103	Technology Concepts	1	20
BE 1XX	Anatomy and Physiology for Bioengineers	1	20
Elective Class(es)			20

Second Year

11.45.64 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE 2XX	Biomechanics of Human Movement – Theory	2	20
BE 2XX	Biomechanics of Human Movement – Measurement	2	20
DM 200	Design 2	2	20
DM 204	Integrating Studies 2	2	20
DM 205	Production Techniques 1	2	20
DM 206	Sports Engineering Module	2	20

Third Year

11.45.65 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE 3XX	Physiology of Sport and Exercise	3	20
DM 303	Engineering Design	3	20
DM 304	Integrating Studies 3	3	20
DM 306	Product Development	3	20
DM 309	Mechatronics Design and Applications	3	20

Optional Classes

20 credits at Levels 3 or 4 chosen from the list of optional classes in Regulation 11.45.67

Fourth Year

11.45.66 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 402	Individual Project 1	4	40
DM 403	Industrial Group Project 1	4	20
BE 4XX	Sports Injury and Rehabilitation	4	20
BE 4XX	Advanced Topics in Human Movement	4	20

Optional Classes

20 credits at Levels 3, 4 or 5 chosen from the list of optional classes in Regulation 11.45.67.

Optional Classes at Levels 3, 4 and 5

11.45.67	DM 307	Production and Operations Management	3	20
	DM 308	Production Techniques 2	3	20
	VP 301	Vertically Integrated Project	3	10
	VP 302	Vertically Integrated Project	3	10
	DM 400	Advanced Design Methods	4	20
	DM 404	Quality Management	4	20

DM 406	Industrial Placement 1	4	20
DM 405	Industrial Placement 2	4	20
VP 401	Vertically Integrated Project	4	10
VP 402	Vertically Integrated Project	4	10
DM503	Global Design	5	10
DM918	People, Organisation and Technology	5	10
DM920	Strategic technology Management	5	10
DM923	Product Modelling and Visualisation	5	10
DM925	Systems Integration	5	10
DM926	Supply Chain Operations	5	10
DM929	CAED Systems	5	10
DM935	Management of Total Quality and Continuous Improvement	5	10
EF927	Design Management	5	10
EF930	Information Management	5	10
VP 501	Vertically Integrated Project	5	10
VP 502	Vertically Integrated Project	5	10

Progress

- 11.45.68 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 11.45.69 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including 100 credits at Level 2 or above.
- 11.45.70 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 100 credits at Level 3 or above.

Final Honours Classification

- 11.45.71 The final Honours classification will normally be based on the first assessed attempt at compulsory and, where appropriate, specified optional classes which are taken in the second, third and fourth year of the course;

Award

- 11.45.72 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Sports Engineering, a candidate must have accumulated no fewer than 480 credits from the course curriculum including those for the class *DM402 Individual Project 1*.
- 11.45.73 **BEng:** In order to qualify for the award of the degree of BEng in Sports Engineering, a candidate must have accumulated no fewer than 360 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include no fewer than 100 credits at Level 3.
- 11.45.74 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Sports Engineering, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.45.75 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Sports Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.45.76 A candidate who fails to satisfy the progress or award requirements for the BEng in Sports Engineering may be transferred to the degree of BEng in Engineering Studies.

11.46 Department of Electronic and Electrical Engineering

Electronic and Electrical Engineering

BEng with Honours in Electronic and Electrical Engineering

BEng in Electronic and Electrical Engineering

Diploma of Higher Education in Electronic and Electrical Engineering

Certificate of Higher Education in Electronic and Electrical Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.46.1 All students are normally admitted in the first instance as potential Honours students. Transfer to a corresponding MEng degree is possible prior to the fourth year of study subject to satisfying the appropriate progress requirements.

Mode of Study

11.46.2 The courses are available by full-time study only.

Curriculum

First Year

11.46.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
56 110	Engineering Industry and Profession	1	10
EE 105	Electronic and Electrical Techniques and Design 1	1	20
EE 106	Engineering Design for Software Development 1	1	20
EE 107	Electronic and Electrical Principles 1	1	20
MM 113	Engineering Mathematics 1E	1	20
MM 114	Engineering Mathematics 2E	1	20
PH 167	Physical Sciences	1	10

Second Year

11.46.4 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
56 213	Engineering Design and Manufacture	2	10
PH260	Physics Electronics	2	10
19207	Electromagnetism	2	10
EE 269	Electronic and Electrical Principles 2	2	20
EE 270	Analogue and Digital Electronics	2	20
EE 271	Electronic and Electrical Techniques and Design 2	2	10
EE 273	Engineering Design for Software Development 2	2	20

MM 213	Engineering Mathematics 3E	2	20
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Third Year

11.46.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
EE 320	Signals and Communication Systems	3	20
EE 311	Electronic and Electrical Principles 3	3	20
EE 312	Instrumentation and Microcontrollers	3	20
EE 313	Engineering Analysis	3	20
56324	Engineering Innovation and Management	3	10
EE 318	Engineering Project	3	10

Elective Classes	20
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Fourth Year

11.46.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
19 496	Individual Project	4	40

Optional Classes

80 credits chosen from Lists A, B and C in Regulation 11.46.7

Optional classes must incorporate no fewer than 60 credits at Level 4 or above.

11.46.7 Optional Classes at Levels 3 and 4

List A:	Electrical Energy Systems		
EE 466	Power Electronics, Machines and Applications	4	20
EE 467	Power System Design, Operation and Protection	4	20

List B:	Electronic and Digital Systems		
EE 468	Analogue Systems	4	20
EE 469	Digital Signal Processing Principles	4	20
EE 470	Information Transmission and Security	4	20

List C:	General		
EE 315	Analogue and Digital System Design	3	20
EE 317	Renewable Energy Technologies	3	20
EE 471	Communications Networks	4	20
EE 472	Control Principles	4	20
EE 473	Photonic Systems	4	20

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director

Progress

- 11.46.8 In order to progress to the second year of the course, a student must have accumulated no fewer than 100 credits from the appropriate course curriculum.
- 11.46.9 In order to progress to the third year of the course, a student must have accumulated no fewer than 220 credits from the appropriate course curriculum.
- 11.46.10 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the appropriate course curriculum.

Final Assessment and Honours Classification

- 11.46.11 The final Honours classification will normally be based on the first assessed attempt at compulsory and specified optional classes taken in the third and fourth years.

Award

- 11.46.12 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in Electronic and Electrical Engineering, a candidate must have accumulated no fewer than 480 credits from the appropriate course curriculum including those for the *Individual Project*.
- 11.46.13 **BEng:** In order to qualify for the award of the degree of BEng in Electronic and Electrical Engineering, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.46.14 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Electronic and Electrical Engineering, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.46.15 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Electronic and Electrical Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

- 11.46.16 A candidate who fails to satisfy the progress or award requirements for the BEng in the chosen course may be transferred to the degree of BEng in Engineering Studies.

11.46.17
to 11.46.20 (Numbers not used)

Electrical and Mechanical Engineering

BEng with Honours in Electrical and Mechanical Engineering

BEng in Electrical and Mechanical Engineering

Diploma of Higher Education in Electrical and Mechanical Engineering

Certificate of Higher Education in Electrical and Mechanical Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.46.21 All students are normally admitted in the first instance as potential Honours students. Transfer to the MEng degree in Electrical and Mechanical Engineering is possible prior to the fourth year of study subject to satisfying the appropriate progress requirements.

Mode of Study

- 11.46.22 The courses are available by full-time study only.

Curriculum

First Year

- 11.46.23 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
16 132	Engineering Mechanics 1	1	20
56 110	Engineering Industry and Profession	1	10
EE 107	Electronic and Electrical Principles 1	1	20
EE 105	Electronic and Electrical Techniques and Design 1	1	20
ME 101	Heat and Flow 1	1	10
16 165	Engineering Analysis 1	1	10
MM 113	Engineering Mathematics 1E	1	20
MM 114	Engineering Mathematics 2E	1	20

Second Year

- 11.46.24 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
16 232	Engineering Mechanics 2	2	20
19 207	Electromagnetism	2	10
56 213	Engineering Design and Manufacture	2	10
EE 269	Electronic and Electrical Principles 2	2	20
EE 270	Digital Electronic Systems	2	20
EE 271	Electronic and Electrical Techniques and Design 2	2	10
ME 203	Heat and Flow 2	2	20
MM 213	Engineering Mathematics 3E	2	20

Third Year

- 11.46.25 All students shall undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
EE 312	Instrumentation and Microcontrollers	3	20
EE 301	Engineering Analysis	3	20
56 324	Engineering Innovation and Management	3	10
EM 305	Engineering Computing	3	10
EM 310	Signals and Systems	3	10
ME 305	Dynamics 3	3	10
EM 304	Integrated Design	3	20

Elective Classes

Optional Classes

20 credits chosen from:

EE 311	Electronic and Electrical Principles 3	3	20
ME 301	Heat and Flow 3	3	20

Fourth Year

11.46.26 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
EM 401	Individual Project	4	40
EM 402	Systems Engineering	4	20

Optional Classes

60 credits as specified in Regulation 12.46.42

11.46.27 Optional Classes

Optional classes must incorporate no fewer than 40 credits at Level 4 and above (see Regulation 11.46.29). Optional classes in Fourth Year must be approved by the Course Director and achieve an acceptable balance between the two disciplines. Normally no fewer than 20 credits at Level 4 or above must be taken from optional classes taught by each of the two associated Departments: Electronic and Electrical Engineering, and Mechanical and Aerospace Engineering.

11.46.28 Optional Classes at Level 3

Electrical and Mechanical Engineering

Optional classes at Level 3 in Regulation 11.46.25

Electronic and Electrical Engineering

As specified in Regulation 11.46.7

11.46.29 Optional Classes at Level 4

Electronic and Electrical Engineering

As specified in Regulation 11.46.9

Mechanical and Aerospace Engineering

As specified in Regulations 11.47.6, 12.47.7 and 12.47.9

Progress

- 11.46.30 In order to progress to the second year of the course, a student must have accumulated no fewer than 110 credits from the course curriculum.
- 11.46.31 In order to progress to the third year of the course, a student must have accumulated no fewer than 240 credits from the course curriculum.
- 11.46.32 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 380 credits from the course curriculum.

Final Honours Classification

- 11.46.33 The final honours classification will normally be based on the first assessed attempt at compulsory and specified optional classes taken in the third and fourth years.

Award

- 11.46.34 **BEng with Honours:** Notwithstanding Regulation 11.1.10, in order to qualify for the award of the degree of BEng with Honours in Electrical and Mechanical Engineering, a candidate must have accumulated no fewer than 500 credits from the course curriculum including those for the *Individual Project EM401*
- 11.46.35 **BEng:** In order to qualify for the award of the degree of BEng in Electrical and Mechanical Engineering, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.46.36 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Electrical and Mechanical Engineering, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.46.37 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Electrical and Mechanical Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

- 11.46.38 A candidate who fails to satisfy the progress or award requirements for the BEng in Electrical and Mechanical Engineering may be transferred to the degree of BEng in Engineering Studies.

11.47 Department of Mechanical and Aerospace Engineering

Mechanical Engineering

BEng with Honours in Aero-Mechanical Engineering

BEng with Honours in Mechanical Engineering

BEng with Honours in Mechanical Engineering with International Study

BEng in Mechanical Engineering

Diploma of Higher Education in Mechanical Engineering

Certificate of Higher Education in Mechanical Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.47.1 All students are normally admitted in the first instance as potential Honours students. Transfer between these courses is possible prior to the third year of study. Transfer to the MEng degree courses in Mechanical Engineering, Mechanical Engineering with International Study and Aero-Mechanical Engineering is possible prior to the fourth year of study subject to satisfying the appropriate progress requirements.

Mode of Study

11.47.2 The courses are available by full-time study only.

Place of Study

11.47.3 The BEng course in Mechanical Engineering with International Study requires study at an approved institution abroad. Such study will normally extend over a minimum period of 30 weeks.

Curriculum

First Year

11.47.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 132	Engineering Mechanics 1	1	20
EE 108	Electrical Circuits	1	10
ME 101	Heat and Flow 1	1	10
16 165	Engineering Analysis 1	1	10
ME 107	Experimental and Laboratory Skills	1	10
ME 105	Mechanical Engineering Design	1	20
MM 117	Mathematics 1M	1	20
Elective Class(es)			20

Second Year

11.47.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 232	Engineering Mechanics 2	2	20
16 288	Professional Studies	2	10
19 222	Electrical Machines and Control	2	10

56 208	Design and Engineering Applications 2	2	10
ME 203	Heat and Flow 2	2	20
ME 209	Mathematical Modelling and Analysis	2	20
ME 2XX	Materials Engineering and Design	2	10

together with classes appropriate to the chosen course:

Aero-Mechanical Engineering

16 231	Flight and Spaceflight 1	2	10
ME 201	Aero Design and Flight Test	2	10

Mechanical Engineering

Mechanical Engineering with International Study

Elective Class(es)			20
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Students wishing to obtain credits for participation on a Vertically Integrated Project (VIP) shall replace 56 208 Design and Engineering Applications 2 with

VP 2XX	Vertically Integrated Project 2	2	10
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Third Year

11.47.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 361	Dynamics and Control	3	20
16 363	Engineering Analysis 3	3	20
ME 301	Heat and Flow 3	3	20
16 327	Structural Mechanics	3	10
ME 4AA	Strategic Analysis of Engineering Business Case Studies	4	10
ME 4BB	Engineering Ethics	4	10

together with classes appropriate to the chosen course:

Aero-Mechanical Engineering

16 351	Flight and Spaceflight 2	3	10
16 309	Aero-Design 2	3	20

Mechanical Engineering

Mechanical Engineering with International Study

ME 312	Mechanical Design 3A	3	10
ME 313	Mechanical Design 3B	3	20

Mechanical Engineering with International Study

All students are normally required to undertake study abroad at an approved institution and shall follow an approved curriculum reflecting that undertaken by students taking the Mechanical Engineering course. Such study will normally extend over a minimum period of 30 weeks.

Students wishing to obtain credits for participation on a Vertically Integrated Project (VIP) shall replace ME4AA Strategic Analysis of Business Case Studies with

VP 3XX	Vertically Integrated Project 3	3	10
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Fourth Year

11.47.7 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 402	Case Studies in Engineering	4	10
16 429	Computer Aided Engineering Design	4	20
ME 403	Engineering Materials Selection	4	10
ME 409	Individual Project*	4	40
ME 414	Advanced Mechanics and Dynamics	4	20
ME 405	Heat and Flow 4	4	10

together with classes appropriate to the chosen course:

Aero-Mechanical Engineering

ME 410	Aerodynamic Performance	4	10
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Mechanical Engineering

Mechanical Engineering with International Study

ME 404	Energy Systems Modelling	4	10
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* For students registered for Aero-Mechanical Engineering, class ME409 Individual Project shall be on an Aero-related topic.

ME409 Individual project can be used to contribute towards a Vertically Integrated Project.

Progress

11.47.8 Progress to a period of study abroad is dependent on passing all compulsory classes. A student registered for the Mechanical Engineering with International Study course who does not meet this requirement at this stage will be required to transfer to another course.

11.47.9 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.47.10 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.

11.47.11 In order to progress to the fourth year of the chosen course, a student must have accumulated at least 360 credits from the course curriculum.

11.47.12 **Final Assessment and Honours Classification**

The final Honours classification will normally be based on

- (i) the first assessed attempt at compulsory and specified optional classes taken in the second, third and fourth years;
- (ii) if appropriate, an oral examination.

Award

11.47.13 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in the chosen course, a candidate must have accumulated no

fewer than 480 credits from the course curriculum including those for the classes *16 402 Case Studies in Engineering* and *ME 409 Engineering Project* which in the case of the BEng with Honours in Aero-Mechanical Engineering shall be on an aero-related topic.

11.47.14 In order to qualify for the award of BEng with Honours in Mechanical Engineering with International Study, in addition to satisfying the provisions of Regulation 11.47.14, a student must have spent no fewer than 30 weeks of approved study abroad.

11.47.15 **BEng:** In order to qualify for the award of the degree of BEng in Mechanical Engineering, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.47.16 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Mechanical Engineering a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.47.17 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Mechanical Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.47.18 A candidate who fails to satisfy the progress or award requirements for the BEng in Mechanical Engineering or BEng in Aero-Mechanical Engineering may be transferred to the degree of BEng in Engineering Studies.

National Centre for Prosthetics and Orthotics

Prosthetics and Orthotics

BSc with Honours in Prosthetics and Orthotics

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Curriculum

First Year

11.48.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
94 154	Principles of Prosthetic and Orthotic Design 1	1	20
94 156	Introduction to Health Services Research	1	20
94 157	Human Biological Sciences 1	1	20
94 160	Foundations for Practice in Health and Social Care	1	20
94 161	Prosthetic and Orthotic Professional and Technical Skills 1	1	20
94 204	Prosthetics and Orthotics Science 1*	2	20

* *Patient-based clinical education and practice.*

Second Year

11.48.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
94 205	Professional Skills for Healthcare 2	2	10
94 206	Human Biological Sciences 2	2	20
94 207	Principles of Prosthetic and Orthotic Design 2	2	20
94 208	Prosthetics and Orthotics Science 2*	2	60

* *Patient-based clinical education and practice.*

Elective Class 10

Third Year

11.48.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
94 303	Human Biological Sciences 3	3	10
94 304	Principles of Prosthetic & Orthotic Design 3	3	10
94 xxx	Prosthetic & Orthotic Science 3 with Applied Health Service Research	3	40
94 403	Prosthetics/Orthotics Clinical Placement 1*	4	60

* *Patient-based clinical education and practice*

Fourth Year

11.48.7 All students shall undertake classes amounting 120 credits as follows:

Compulsory Classes			
94 404	Prosthetics/Orthotics Clinical Placement 2*	4	60
94 405	Project	4	40
Elective Class			10

Optional Classes

10 credits chosen from:

94 406	Wheelchairs and Seating	4	10
94 407	Upper Limb Prosthetics	4	10
94 408	Hip, Knee & Ankle Disarticulation Prosthetics	4	10
94 409	Lower Limb Prosthetic Design	4	10
94 410	Orthotic Management of Spinal Deformity	4	10
94 411	Orthotic Management of Neurological Conditions	4	10
94 412	Clinical Governance	4	10
94 413	Clinical Gait Analysis	4	10

* The Clinical Placement in both Prosthetics and Orthotics will be conducted in approved prosthetic and orthotic clinical centres and will consist of an approved programme of clinical experience.

Progress

11.48.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum including those for the classes 94 204 *Prosthetics and Orthotics Science 1*, 94 157 *Human Biological Sciences 1*, 94 154 *Principles of Prosthetic and Orthotic Design 1*,

94 156 Introduction to Health Services Research and 94 161 Prosthetic and Orthotic Professional & Technical Skills 1.

11.48.9 In order to progress to the third year of the course, a student must have accumulated at least 230 credits from the course curriculum including those for all of the compulsory classes.

11.48.10 In order to progress to the fourth year of the course, a student must have accumulated 360 credits from the course curriculum.

Final Honours Classification

11.48.11 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory classes in the second, third and fourth years;
- (ii) clinical, laboratory and project work in the second, third, fourth and years;
- (iii) clinical oral examinations following placements in Prosthetics and Orthotics in the third and fourth year;
- (iv) individual project work in the fourth year;
- (v) if appropriate, an oral examination.

Award

11.48.12 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Prosthetics and Orthotics, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include a minimum of 160 credits at Level 4.

Transfer

11.48.13 A candidate who fails to satisfy the progress or award requirements for the BSc with Honours in Prosthetics and Orthotics may be transferred to the degree of BEng in Engineering Studies.

11.48.14 to

11.48.99 (numbers not used)

11.49 Department of Naval Architecture and Marine Engineering

BEng with Honours in Naval Architecture and Marine Engineering
BEng with Honours in Naval Architecture with Ocean Engineering
BEng with Honours in Naval Architecture with Small Craft Engineering
BEng in Naval Architecture and Marine Engineering
BEng in Naval Architecture with Ocean Engineering
BEng in Naval Architecture with Small Craft Engineering
Diploma of Higher Education in Naval Architecture and Marine Engineering
Certificate of Higher Education in Naval Architecture and Marine Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.49.1 All students are normally admitted in the first instance as potential Honours students. Transfer between these courses is possible prior to the third year of study. Transfer to the respective MEng degrees in Naval Architecture and Marine Engineering, in Naval Architecture with Ocean Engineering or in Naval Architecture with Small Craft Engineering is possible prior to the fifth year of study subject to satisfying the appropriate progress regulations.

Mode of Study

11.49.2 The courses are available by full-time study only.

Curriculum

First Year

11.49.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 132	Engineering Mechanics 1	1	20
NM 102	Introduction to Naval Architecture and Marine Engineering	1	20
NM 103	Analysis Tools for Marine Design	1	20
MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20
Elective Class(es)			20

Second Year

11.49.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
NM 209	Principles of Marine Design and Production	2	20
NM 210	Analysis and Design of Marine Structures 1	2	20
NM 211	Engineering Applications for Naval Architects and Marine Engineers	2	20
NM 212	Hydrostatics and Stability of Marine Vehicles	2	20
NM 213	Marine Engineering Fundamentals	2	20
MM 211	Mathematics 3B	2	20

Third Year

11.49.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
NM 313	Hydrodynamics, Resistance and Propulsion	3	20
NM 314	Marine Design	3	20
NM 316	Marine Engineering Systems and Control	3	20
NM 320	Professional Development and Marine Business	3	20
NM 312	Analysis and Design of Marine Structures 2	3	20
NM 323	The Marine Environment	3	10

together with classes appropriate to the chosen course:

Naval Architecture and Marine Engineering

Compulsory Class

NM 324	Principles and Application of Marine Machinery	3	10
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Naval Architecture with Ocean Engineering

Compulsory Class

NM 325	Offshore Oil and Gas Production Systems	3	10
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Naval Architecture with Small Craft Engineering

Compulsory Class

NM 305	Yacht and Powercraft Design	3	10
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Fourth Year

11.49.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
NM 423	Seakeeping and Manoeuvring	4	20
NM 402	Theory and Practice of Marine CFD	4	10
21452	Finite Element Analysis of Marine Structures	4	10

together with classes appropriate to the chosen course:

Naval Architecture and Marine Engineering

Compulsory Classes

		Level	Credits
NM 421	Marine Power and Electrical Systems	4	20
NM 428	Marine Engineering Project	4	40
NM 415	Marine Refrigeration and Air Conditioning	4	10
NM 409	Marine Transmission and Propulsion Systems	4	10

Naval Architecture with Ocean Engineering

Compulsory Classes

NM 430	Ocean Engineering Project	4	40
NM 404	Ship Structural Dynamics	4	10
NM 435	Structural Reliability	4	10
NM436	Dynamics of Offshore Structures	4	20

Naval Architecture with Small Craft Engineering

Compulsory Classes

NM 426	Yacht and High Speed Craft Performance	4	20
NM 429	Small Craft Engineering Project	4	40
NM 404	Ship Structural Dynamics	4	10
NM 435	Structural Reliability	4	10

Progress

- 11.49.7 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 11.49.8 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.
- 11.49.9 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum as appropriate.

Final Assessment and Honours Classification

- 11.49.10 On successful completion of the fourth year, a candidate will be awarded Level 4 credits corresponding to the classes taken.
- 11.49.11 The final Honours classification will normally be based on:
the first assessed attempt at compulsory and specified optional classes taken in the third and fourth years;

Award

- 11.49.12 **BEng with Honours:** In order to qualify for the award of the degree of BEng with Honours in the chosen course, a candidate must have accumulated at least 480 credits from the course curriculum including those for the class *NM 428 Marine Engineering Project* or *NM 430 Ocean Engineering Project* or *NM 429 Small Craft Engineering Project* as appropriate.
- 11.49.13 **BEng:** In order to qualify for the award of the degree of BEng in Naval Architecture and Marine Engineering, BEng in Naval Architecture with Ocean Engineering or BEng in Naval Architecture with Small Craft Engineering a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.49.14 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Naval Architecture and Marine Engineering, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.49.15 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Naval Architecture and Marine Engineering, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

- 11.49.16 A candidate who fails to satisfy the progress or award requirements for the BEng in Naval Architecture and Marine Engineering, BEng in Naval Architecture with Ocean Engineering or BEng in Naval Architecture with Small Craft Engineering may be transferred to the degree of BEng in Engineering Studies.

11.49.17
to 11.49.79 (Numbers not used)

Strathclyde Business School

11.80 Faculty Courses

Business

BA with Honours in (Principal Subject(s))

BA with Honours in (Principal Subject(s)) (Principal Subject(s)) with International Study

BA in (Principal Subject(s))

BA in (Principal Subject(s)) with International Study

Diploma of Higher Education in Business

Certificate of Higher Education in Business

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Admission

11.80.1 Regulation 11.1.1 shall apply.

Status of the Courses

11.80.2 All students are normally admitted in the first instance as potential Honours students.

Credit Transfer and RPL

11.80.3 Students with appropriate qualifications may be admitted with advanced standing directly into the second or third year.

Mode of Study

11.80.4 The courses are available by full-time study only.

Place of Study

11.80.5 Certain subjects (such as Psychology) may require study outwith the University.

11.80.5A The BA in Business (Principal Subjects) with International Study requires study at an approved institution abroad for a period of at least one semester.

Course Structure

Ordinary Degree

11.80.6 In the first year of study, all students shall undertake a curriculum which includes the class *BF 101 Management Development Programme 1*. At the end of the first year of study, all students shall choose two non-elective subjects from this curriculum for further study. These shall be known as the Principal Subjects.

11.80.7 Over the second and third years of study, all students shall undertake a curriculum which centres on the two chosen Principal Subjects and includes the classes *BF 201 Management Development Programme 2* and *BF 301 Management Development Programme 3*.

11.80.8 A Principal Subject shall comprise classes amounting to no fewer than 100 credits (normally 20 at Level 1, 40 at Level 2 and 40 at Level 3). Subjects

delivered from other Faculties may require students to take classes amounting to 40 credits at Level 1.

By the end of the third year, all students must have taken classes amounting to at least 60 credits at Level 3 and an additional 100 credits at Level 2.

11.80.9 The credits for a class may count towards the credit requirements for one of the Principal Subjects only.

Principal Subject and Honours Requirements

11.80.10	Accounting	See Regulation 11.80.31 – 11.80.32
	Business Enterprise	See Regulation 11.80.41 – 11.80.43
	Business Technology	See Regulation 11.80.51 – 11.80.53
	Economics	See Regulation 11.80.61 – 11.80.63
	Finance	See Regulation 11.80.71 – 11.80.73
	Hospitality and Tourism	See Regulation 11.80.81 – 11.80.85
	Human Resource Management	See Regulation 11.80.91 – 11.80.93
	Management	See Regulation 11.80.101 – 11.0.103
	Management Science	See Regulation 11.80.111 – 11.80.113
	Marketing	See Regulation 11.80.121 – 11.80.123
	Business Law	See Regulation 11.80.131 – 11.80.132
	Mathematics and Statistics	See Regulation 11.80.141 – 11.80.142
	Psychology	See Regulation 11.80.161 – 11.80.162

11.80.11 **Permissible Combinations of Subjects for Pass and Honours Degrees**

Subjects are normally available in the following combinations:

Accounting ^										
H	Business Enterprise									
H	H	Business Technology								
H	H	H	Economics							<i>Business Subjects</i>
H	H	H	H	Finance						
H	H	H	H	H	Hospitality and/or Tourism					
H	H	H	H	H	H	Human Resource Management				
H	H	H	H	H	H	H	Management			
H	H	H	H	H	H	H	H	Management Science		
H	H	H	H	H	H	H	H	H	Marketing	
H	H		H	H	H			H	H	
H			H	H				H		
			H			H			H	

Business Law *Non-Business Subjects*

Mathematics and Statistics

Psychology

Curriculum

First Year

11.80.12 All students shall undertake a curriculum amounting to 120 credits as follows:

Compulsory Class	Level	Credits
BF 101 Management Development Programme 1	1	20

Optional Classes

Students shall choose 60 credits from the classes in List A, together with:

either

40 credits from either List A

or

40 credits from List B

or

20 credits from List A and 20 credits from elective classes.

List A: Level 1 Classes in Principal Subjects in Business

	Level	Credits
AG 105 Introduction to Finance and Financial Statistics *	1	20
AG 111 Accounting Technologies *	1	20
AG 151 Introduction to Finance and Accounting**	1	20
EC 111 Introduction to Economics	1	20
HR 111 Managing People	1	20
MG112 Managing in a Global Context	1	20
MK 111 Introduction to Marketing	1	20
MS 111 Foundations of Business Analysis	1	20
MS 151 Harnessing Technology for Business	1	20
SH 111 Introduction Hospitality and Tourism Management	1	20
Z1 151 Entrepreneurship Theory and Practice	1	20

* Only students admitted to study a degree which includes Accounting may take these classes. Students wishing to gain a degree in Accounting which is accredited by professional bodies should seek the advice of the Department of Accounting and Finance to ensure that the necessary classes are included in their curriculum.

** Students taking AG 111 Accounting Technologies may not take this class

M9 117 Business Law	1	20
MM 101 Introduction to Calculus (1A)	1	20
MM 102 Applications of Calculus (1B)	1	20
PY 105 Psychology 1A	1	20
PY 106 Psychology 1B	1	20

Classes in Mathematics and Psychology must be taken in subject pairs. Students must pass the 1A to progress to 1B, and must pass 1A and 1B to qualify for admission to the Principal Subject. If they pass, they will be qualified for admission to the Principal Subject.

Elective Class(es)		20
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Second Year

11.80.13 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes	Level	Credits
BF 201 Management Development Programme 2	2	20
Principal Subject 1	2	40
Principal Subject 2	2	40
Elective Class(es)		20

Third Year

11.80.14 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes	Level	Credits
BF 301 Management Development Programme 3	3	20
Principal Subject 1	2/3	40
Principal Subject 2	2/3	40
Elective Class(es)		20

11.80.14A Students who elect to undertake study abroad during their third year shall follow an approved curriculum of 120 credits which should include the equivalent of the following classes:

Compulsory Classes	Level	Credits
BF 301 Management Development Programme 3	3	20
Principal Subject 1	3	40
Principal Subject 2	3	40
and a further 20 credits		

Single Honours

11.80.15 All students admitted to study a Single Honours degree shall undertake classes amounting to 120 credits at Level 4 in the Principal Subject specialisation including a dissertation (or equivalent).

Joint Honours

11.80.16 All students admitted to study a Joint Honours degree shall undertake classes amounting to 120 credits at Level 4 which meet the specialisation requirements for both Principal Subjects as follows:

Compulsory Classes	Level	Credits
Dissertation (or equivalent) in Principal Subject 1 or 2*	4	40
Principal Subject 1	4	40
Principal Subject 2	4	40

* *Students taking Mathematics, Business Law or Psychology will be required to undertake a 20-credit Dissertation (Project) and must therefore take a further 20-credit class in their other Principal Subject.*

Progress

- 11.80.17 In order to progress to the second year of the course, a student must have accumulated at least 120 credits from the course curriculum, including those in the Level 1 classes for the intended Principal Subjects.
- 11.80.18 In order to progress to the third year of the course, a student must have accumulated at least 240 credits from the course curriculum, including those for the Level 2 compulsory classes relating to their chosen Principal Subjects.
- 11.80.19 In order to progress to the fourth year of the course, a student must have achieved 360 credits from the course curriculum and must have achieved a specified standard of performance having regard to level of study, academic attainment, Principal Subject requirements and any other specified criteria all as detailed in the Course Handbook.
- 11.80.20 A student admitted with advanced standing to the third year as a potential Honours degree student must have accumulated at least 360 credits including at least 120 credits from the third year course curriculum and have met any additional requirements specified at entry. These must include at least 60 credits at Level 3 or above. In addition, a student must have achieved a specified standard of performance with regard to level of study, academic attainment and any other specified criteria all as detailed in the Course Handbook.

Assessment and Final Honours Classification

- 11.80.21 On successful completion of the fourth year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.
- 11.80.22 The final Honours classification will normally be based on:
- (i) For students taking Honours subject(s) in the Strathclyde Business School only, the first assessed attempt at all classes in the Honours year;
 - (ii) For students taking Joint Honours with a Principal Subject from the Strathclyde Business School and a Principal Subject offered by another Faculty, the first assessed attempt at specified classes in the third year (if appropriate) and all classes in the Honours year;

Award

- 11.80.23 **BA with Honours:** In order to qualify for the award of the BA with Honours in (*Principal Subject(s)*), a candidate must have accumulated no fewer than 480 credits from the course curriculum.
- 11.80.23A **BA with Honours with International Study:**
In order to qualify for the award of the BA with Honours in (Principal Subject), a candidate must have accumulated no fewer than 480 credits from the course curriculum, including at least one semester at a partner institution in the third year of study.
- 11.80.24 **BA:** In order to qualify for the award of the BA in (*Principal Subject(s)*), a candidate must have accumulated no fewer than 360 credits from the course curriculum and must have passed all the compulsory classes and satisfied the requirements for two Principal Subjects.
For avoidance of doubt, the BA in Business is not used for the title of an award.
- 11.80.24A **BA with International Study:**
In order to qualify for the award of the BA in (Principal Subject) with International Study, a candidate must have accumulated no fewer than 360

credits from the course curriculum, including at least one semester at a partner institution in the third year of study.

11.80.25 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Business, a candidate must have accumulated no fewer than 240 credits from the course curriculum including those for the class *BF 101 Management Development Programme 1*.

11.80.26 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Business, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.80.27

to 11.80.30 (Numbers not used)

Principal Subject and Honours Requirements

Principal Subject Curriculum in Accounting

11.80.31 *Students wishing to gain a degree in Accounting which is accredited by professional bodies should seek the advice of the Department of Accounting and Finance to ensure that the necessary classes are included in their curriculum.*

Compulsory Classes		Level	Credits
AG 111	Accounting Technologies	1	20
AG 207	Intermediate Financial Accounting	2	20
AG 208	Intermediate Management Accounting	2	20
AG 309	Governance and Accounting Ethics	3	10
AG 308	Auditing and Assurance	3	10
AG 311	Advanced Financial Reporting	3	10
AG 310	Contemporary Management Accounting	3	10
Optional Classes			
AG 105	Introduction to Finance and Financial Statistics	1	20
AG 209	Taxation	2	20
AG 210	Business Finance	2	20

Single Honours Curriculum in Accounting

11.80.32 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
AG 435	Accounting Dissertation	4	40
Optional Classes			
80 credits chosen from:			
AG 437	Strategic Accounting and Financial Management in Entrepreneurial Firms	4	20
AG 416	Management Accounting Theory and Practice	4	20
AG 425	Corporate Governance	4	20
AG 408	Integrative Studies in Management Accounting	4	20
AG 438	Understanding 21st Century Accounting Technologies and Institutional Structures	4	20

AG 415	Contemporary Issues in International Financial Reporting	4	20
AG 422	Accounting Ethics	4	20
AG 420	Auditing Theory and Practice	4	20
	Sustainable Accounting and Accountability	4	20

Joint Honours Curriculum in Accounting and Another Subject

11.80.33 All students shall undertake a curriculum in Accounting amounting to 40 credits chosen from the list of optional classes at Regulation 11.80.32. In addition, if the student elects to undertake the dissertation in Accounting:

		Level	Credits
AG 435	Accounting Dissertation	4	40

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.34
to 11.80.40 (Numbers not used)

Principal Subject Curriculum in Business Enterprise

11.80.41

Compulsory Classes		Level	Credits
Z1 151	Entrepreneurship Theory and Practice	1	20
Z1 211	New Venture Creation	2	20
Z1 213	Creativity and Opportunity Identification	2	20
Z1 310	Venture Management Strategy and Growth	3	20
Z1 311	Entrepreneurial Capital and Resources	3	20
Optional Classes			
Z1 212	Introduction to Business Start-up	2	20
Z1 215	Technology Entrepreneurship and Commercialisation	2	20

Single Honours Curriculum in Business Enterprise

11.80.42 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
Z1 400	Family Business: Theory and Practice	4	20
Z1 401	Venture Management in Practice	4	20
Z1 403	Issues and Trends in Entrepreneurship	4	20
Z1 404	Business Enterprise Dissertation and Special Research Methods	4	40
Z1 405	International Entrepreneurship	4	20

Joint Honours Curriculum in Business Enterprise and Another Subject

11.80. 43 All students shall undertake a curriculum in Business Enterprise amounting to 40 credits as follows:

Compulsory Class			
Z1 403	Issues and Trends in Entrepreneurship	4	20

Optional Classes

20 credits from the following:

Z1 400	Family Business: Theory and Practice	4	20
Z1 405	International Entrepreneurship	4	20

In addition, if the student elects to undertake the dissertation in Business Enterprise:

Z1 404	Dissertation in Business Enterprise	4	40
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The credit requirement for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.44
to 11.80.50 (Number not used)

Principal Subject Curriculum in Business Technology

11.80.51

Compulsory Classes		Level	Credits
MS 151	Harnessing Technology for Business	1	20
MS 204	Technological and Organisation Innovation	2	20
MS 308	Working in Today's Virtual World	3	20

Optional Classes

40 credits chosen from:

MS 205	Information Systems in the Knowledge Economy	2	20
MS 206	Management of Business Processes	2	20
MS 307	Knowledge Management	3	20
MS 308	Working in Today's Virtual World	3	20

Single Honours Curriculum in Business Technology

11.80.52 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MS 419	Dissertation in Business Technology	4	40
MS 417	Electronic Commerce	4	20

Optional Classes

60 credits chosen from:

MS 415	Business Process Integration with ERP	4	20
MS 416	Business Analytics using Data Mining	4	20
MS418	Project Management	4	20
MS422	Risk Analysis And Management	4	20

Joint Honours Curriculum in Business Technology and Another Subject

11.80.53 All students shall undertake a curriculum in Business Technology amounting to 40 credits as follows:

Compulsory Class		Level	Credits
MS 417	Electronic Commerce	4	20

Optional Classes

20 credits chosen from the following:

MS 415	Business Process Integration with ERP	4	20
MS 416	Business Analytics Using Data Mining	4	20
MS 418	Project Management	4	20
MS422	Risk Analysis and Management	4	20

In addition, if the student elects to undertake the dissertation in Business Technology:

MS 419	Dissertation in Business Technology	4	40
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.54

to 11.80.60 (Numbers not used)

Principal Subject Curriculum in Economics

11.80.61

Compulsory Classes		Level	Credits
EC 111	Introduction to Economics	1	20
EC 207	Microeconomics 2	2	20
EC 208	Macroeconomics 2	2	20
EC 307	Microeconomics 3	3	20
EC 308	Macroeconomics 3	3	20
EC 311	Introduction to Econometrics	3	20

Optional Classes			
EC 209	Economics of Firms and Industries	2	20
EC 210	International Trade and Development	2	20

Single Honours Curriculum in Economics

11.80.62

All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
EC 419	Dissertation in Economics	4	40
EC 403	Microeconomics	4	20
EC 404	Macroeconomics	4	20

Optional Classes

60 credits chosen from

EC 412	Industrial Economics	4	20
EC413	Applied Economics	4	20
EC414	Financial Development and Economic Growth	4	20
EC415	Behavioural Economics	4	20
EC 416	Natural Resource, Environmental and Energy Economics	4	20

Joint Honours Curriculum in Economics and Another Subject

11.80.63

All students shall undertake a curriculum in Economics amounting to at least 40 credits

Compulsory classes			
EC 403	Microeconomics 4	4	20
EC 404	Macroeconomics 4	4	20

Optional classes

No more than 20 credits chosen from the optional classes listed in Regulation 11.80.62

In addition, if the student elects to undertake the dissertation in Economics they must take 20 credits of optional classes and

		Level	Credits
EC 419	Dissertation in Economics	4	20

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.64
to 11.80.70 (Numbers not used)

Principal Subject Curriculum in Finance

11.80.71	Compulsory Classes		Level	Credits
	AG 151	Introduction to Finance and Accounting	1	20
	AG 210	Business Finance	2	20
	AG 211	Portfolio Analysis	2	20
	AG 306	Security Analysis	3	20
	AG 307	Treasury Management and International Finance	3	20
	Optional Classes			
	AG 105	Introduction to Finance and Financial Statistics	1	20
	AG 212	Financial Analysis	2	20
	AG 213	Financial Markets and Banking	2	20

Single Honours Curriculum in Finance

11.80.72 All students shall undertake classes amounting to 120 credits as follows:

	Compulsory Class	Level	Credits	
	AG 436	Dissertation in Finance	4	40

Optional Classes

80 credits chosen from:

	AG 430	Corporate Financing	4	20
	AG 428	Asset Pricing	4	20
	AG 427	Advanced Portfolio Analysis	4	20
	AG 429	Behavioural Finance	4	20
	AG 431	Corporate Investment Theory and Policy	4	20
	AG 434	International Financial Management	4	20

Joint Honours Curriculum in Finance and Another Subject

11.80.73 All students shall undertake a curriculum in Finance amounting to 40 credits chosen from the list of optional classes at Regulation 11.80.72. In addition, if the student elects to undertake the dissertation in Finance:

		Level	Credits
AG 436	Dissertation in Finance	4	40

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.74
to 11.80.80 (Numbers not used)

Principal Subject Curriculum in Hospitality and Tourism

11.80.81

Compulsory Classes		Level	Credits
SH 111	Introduction to Hospitality and Tourism Management	1	20
SH215	Destination Positioning Management	2	20
SH221	Service Encounter Management	3	20

Optional Classes

40 credits chosen from:

SH320	Destination Fieldwork Regeneration and Sustainability	3	20
SH322	Hospitality and Tourism Industry Placement	3	20
SH325	Events Management	3	20

Single Honours Curriculum in Hospitality and Tourism Management

11.80.82 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
MG 412	Dissertation in Hospitality and Tourism Management	4	40

Optional Classes

80 credits chosen from:

SH 410	Critical Hospitality and Tourism Studies	4	20
SH 414	The Commercial Home	4	20
SH 415	Cultural Tourism	4	20
SH 416	Natural Area Tourism	4	20
SH 4XX	Hospitality and Tourism Migration and Mobilities	4	20
SH 4XX	Hospitality and Tourism: Texts and Sources	4	20
SH 419	Mega Events and Urban Development	4	20

Joint Honours Curriculum in Hospitality and Tourism and Another Subject

11.80.83 All students shall undertake a curriculum in Hospitality and Tourism amounting to 40 credits chosen from the list of optional classes at Regulation

11.80.82. In addition, if the student elects to undertake the dissertation in Hospitality and Tourism:

		Level	Credits
MG 412	Dissertation in Hospitality and Tourism Management	4	40

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Hospitality and Another Subject

11.80.84 All students shall undertake a curriculum in Hospitality amounting to 40 credits as follows:

Optional Classes		Level	Credits
40 credits chosen from:			
SH 413	Critical Hospitality Studies	4	20
SH 414	The Commercial Home	4	20
SH 4XX	Hospitality and Tourism Migration and Mobilities	4	20
SH 4XX	Hospitality and Tourism: Texts and Sources	4	20
SH 419	Mega Events and Urban Development	4	20

In addition, if the student elects to undertake the dissertation in Hospitality:

SH 4XX	Dissertation in Hospitality	4	40
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Tourism and Another Subject

11.80.85 All students shall undertake a curriculum in Tourism amounting to 40 credits as follows:

Optional Classes		Level	Credits
40 credits chosen from:			
SH 415	Cultural Tourism	4	20
SH 416	Natural Area Tourism	4	20
SH 4XX	Hospitality and Tourism Migration and Mobilities	4	20
SH 4XX	Hospitality and Tourism: Texts and Sources	4	20
SH 419	Mega Events and Urban Development	4	20

In addition, if the student elects to undertake the dissertation in Tourism:

SH 4XX	Dissertation in Tourism	4	40
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.86
to 11.80.90 (Numbers not used)

Principal Subject Curriculum in Human Resource Management

11.80.91

Compulsory Classes			
HR 111	Managing People	1	20
HR 204	Work and Organisational Psychology	2	20

HR 205	Work Psychology for Human Resource Management	2	20
HR 301	Employment Relations	3	20
HR 300	Work, Employment and Society	3	20
Optional Classes			
HR 201	Managing Equality and Diversity	2	20
HR 202	Human Resource Development	2	20

Single Honours Curriculum in Human Resource Management

11.80.92 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
HR 406	Human Resource Management Dissertation and Research Methods	4	40
41 433	Human Resources in the Global Economy	4	20
HR 402	Perspectives on Work and Employment	4	20
HR 408	HRM and Employment Relations in Public Services	4	20
41402	Advanced Organisational Behaviour	4	20

Joint Honours Curriculum in Human Resource Management and Another Subject

11.80.93 All students shall undertake a curriculum in Human Resource Management amounting to 40 credits chosen from the list of optional classes at Regulation 11.80.92. In addition, if the student elects to undertake the dissertation in Human Resource Management:

		Level	Credits
HR 406	Human Resource Management Dissertation and Research Methods	4	40

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.94
to 11.80.100 (Numbers not used)

Principal Subject Curriculum in Management

11.80.101

Compulsory Classes		Level	Credits
MG112	Managing in a Global Context	1	20
MG204	Understanding Change in Organisations	2	20
MG207	Organisational Analysis and Strategy	2	20

Optional Classes

40 credits chosen from:

MG310	Developing Theory into Practice	3	20
MG312	Management Industry Placement	3	20
MG313	Contemporary Trends in Management Practice	3	20

Single Honours Curriculum in Management

11.80.102 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes

MG 417	Contemporary Issues in Management	4	20
MG 405	Dissertation in Management	4	40

Optional Classes

60 credits chosen from:

MG 418	Strategy and Leadership	4	20
MG 402	Management, Enterprise and the Rise of the Global Corporation	4	20
MG 403	The Dynamics of Organising	4	20
SH 424	Being an Ethical Manager	4	20

Joint Honours Curriculum in Management and Another Subject

11.80.103 All students shall undertake a curriculum in Management amounting to 40 credits as follows:

Compulsory Class

MG 417	Contemporary Issues in Management	4	20
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Optional Classes

20 credits chosen from:

MG 418	Strategy and Leadership	4	20
MG 402	Management, Enterprise and the Rise of the Global Corporation	4	20
MG 403	The Dynamics of Organising	4	20
SH 424	Being an Ethical Manager	4	20

In addition, if the student elects to undertake the dissertation in Management:

Either

MG 405	Dissertation in Management	4	40
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Or

MG 4xx	Management Learning Project	4	40
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.104

to 11.80.110 (Numbers not used)

Principal Subject Curriculum in Management Science

11.80.111

Compulsory Classes

		Level	Credits
MS 111	Foundations of Business Analysis	1	20
MS 208	Consulting and Simulation	2	20
MS 309	Business Analysis and Consulting Projects	3	20

Optional Classes

40 credits chosen from:

MS 205	Information Systems in the Knowledge Economy	2	20
MS 207	Operations Management	2	20
MS 310	Supply Chain Management	3	20

Single Honours Curriculum in Management Science

11.80.112 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MS 420	Management Science 4	4	40
MS 424	Dissertation in Management Science	4	40

Optional Classes

60 credits chosen from

MS 421	Advanced Analytics for Business	4	20
MS 423	Modelling and Managing Service Operations	4	20
MS415	Business Process Integration using ERP	4	20
MS416	Business Analytics Using Data Mining	4	20
MS418	Project Management	4	20
MS422	Risk Analysis and Management	4	20

Joint Honours Curriculum in Management Science and Another Subject

11.80.113 All students shall undertake a curriculum in Management Science amounting to 40 credits chosen from the list of optional classes at Regulation 11.80.112. In addition, if the student elects to undertake the dissertation in Management Science:

		Level	Credits
MS 424	Project in Management Science	4	40

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.114
to 11.80.120 (Numbers not used)

Principal Subject Curriculum in Marketing

11.80.121

Compulsory Classes		Level	Credits
MK 111	Introduction to Marketing	1	20
MK 206	Consumer Behaviour	2	20
MK 207	Marketing Research	2	20
MK 317	Marketing Communications	3	20
MK 318	Strategic Marketing	3	20

Optional Classes

MK 320	Management of Sales Operations	3	20
MK 324	Retail Management	3	20
MK 325	Essentials of International Marketing	3	20
MK326	Digital Marketing and Social Media	2	20

Single Honours Curriculum in Marketing

Compulsory Classes		Level	Credits
MK 412	Brand Management	4	20

MK 414	Dissertation in Marketing	4	40
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Optional Classes

60 credits chosen from

MK 409	Advances in Business-to-Business Marketing	4	20
MK 410	Advances in Consumer Behaviour Operations	4	20
	MK421 Managing Integrated Marketing Communications: Theory and Practice	4	20
MK 415	International Business Management	4	20
MK 416	Managing Customer Relationships	4	20
MK417	Supply Chain Management	4	20
MK 418	Social Marketing	4	20
MK 419	Sports Marketing	4	20

Joint Honours Curriculum in Marketing and Another Subject

11.80.123 All students shall undertake a curriculum in Marketing amounting to 40 credits as follows:

Compulsory Class		Level	Credits
MK 412	Brand Management	4	20

together with 20 credits from the list of optional classes in Regulation 11.80.122.

In addition, if the student elects to undertake the dissertation in Marketing:

MK 414	Dissertation in Marketing	4	40
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.124
to 11.80.130 (Numbers not used)

Principal Subject Curriculum in Business Law

11.80.131

Compulsory Class		Level	Credits
M9117	Business Law	1	20

Optional Classes

M9 212	EU Law	2	20
M9 305	Law, Film and Popular Culture	3	20
M9 308	Human Rights Law	3	20
M9 309	Employment Law	3	20
M9 310	Planning Law	3	20
M9 311	Banking Law and Finance	3	20
M9 313	Housing Law	3	20
M9 314	Intellectual Property	3	20
M9 352	Internet Law	3	20
M9 317	Public International Law	3	20
M9 318	Competition Law	3	20
M9 319	Discrimination Law	3	20
M9 338	Local Government Law	3	20

Joint Honours Curriculum in Business Law and Another Subject

11.80.132 All students shall undertake a curriculum in Business Law amounting to 40 credits the detail of which will be available no later than March 2011.

In addition, if the student elects to undertake the dissertation in Business Law:

LS 4XX	Dissertation in Business Law	4	20
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.133
to 11.80.140 (Numbers not used)

Principal Subject Curriculum in Mathematics and Statistics

11.80.141

Compulsory Classes		Level	Credits
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 201	Linear Algebra and Differential Equations	2	20
MM 204	Probability and Statistical Interference	2	20
MM 302	Differential Equations	3	20
MM 304	Inference and Regression Modelling	3	20

Optional Classes

MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
MM 206	Mathematical and Statistical Computing	2	20
MM 300	Complex Variables and Integral Transforms	3	20
MM 301	Linear Algebra	3	20
MM 306	Numerical Analysis	3	20
MM 307	Stochastics and Financial Econometrics	3	20

Such other classes as may be approved by the Course Director.

Joint Honours Curriculum in Mathematics and Statistics and Another Subject

11.80.142 All students shall undertake a curriculum in Mathematics and Statistics amounting to 40 credits as follows:

Optional Classes		Level	Credits
MM 401	Communicating Mathematics and Statistics	4	20

List A

MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 407	Applied Statistics in Society	4	20

List B***

MM 403	Applicable Analysis 3	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20

MM 408	Mathematical Biology and Marine Population Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 411	Elasticity and Complex Materials	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 413	Statistical Mechanics	4	20
MM 414	Dynamical Models in Epidemiology	4	20

*** Not all of these classes will be available every year

In addition, if the student elects to undertake the project in Mathematics and Statistics:

XX 4XX	Project in Mathematics and Statistics	4	20
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.80.143

to 11.80.160 (Numbers not used)

Principal Subject Curriculum in Psychology

11.80.161

Compulsory Classes		Level	Credits
C8 105	Psychology 1A	1	20
C8 106	Psychology 1B	1	20
C8 201	Cognition and Neuropsychology	2	20
C8 202	Social and Health Psychology	2	20
C8 203	Introduction to Research Design and Analysis	2	20
C8 302	Research Methods in Psychology	3	20
Optional Classes			
C8 306	Psychobiology	3	20
C8 307	Social Psychology	3	20
C8 303	Individual Differences	3	20
C8 304	Cognition	3	20
C8 305	Development	3	20

Joint Honours Curriculum in Psychology and Another Subject

11.80.162

All students shall undertake a curriculum in Psychology amounting to 40 credits as follows:

Optional Classes		Level	Credits
40 credits chosen from:			
C8 403	Psychoanalytic Personality Psychology	4	20
C8 408	Developmental Psychopathology	4	20
C8 409	Forensic Psychology	4	20
C8 410	Human Performance	4	20
C8 411	Physiological Psychology	4	20
C8 412	Psychology and Education	4	20
C8 413	Qualitative Methodologies in Practice	4	20
C8 415	Social Development	4	20
C8 416	Artificial Intelligence	4	20
C8 430	Clinical Aspects of Memory	4	20

C8 432	Health Psychology	4	20
C8 445	Practical Aspects of Memory	4	20
C8 499	Perception and Action	4	20
41 402	Advanced Organisational Behaviour	4	20
Or, if the student elects to undertake the dissertation in Psychology:			
C8 498	Dissertation in Psychology	4	20

And 40 credits chosen from the list of optional classes in Regulation 11.80.162

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

International Business

BA with Honours in International Business with (Principal Subject)
BA with Honours in International Business with (Principal Subject) with International Study
BA in International Business
BA in International Business with International Study
Diploma of Higher Education in International Business
Certificate of Higher Education in International Business

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1.]

Status of the Courses

- 11.81.1 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

- 11.81.2 The courses are available by full-time, part time and flexible delivery.

Place of Study

- 11.81.3 The course includes study in the third year at a Business School or equivalent in another country for at least one semester.

Course Structure

- 11.81.4 In the first year of study, all students shall undertake a curriculum which includes the classes *BF 101 Management Development Programme 1* and *MG 111 Foundations of Management and International Business*. At the end of the first year of study, all students shall choose two Business subjects from this curriculum to study further. These shall be known as the Principal Subjects.
- 11.81.5 Over the second and third years of study, all students shall undertake a curriculum which centres on classes in the two chosen Principal Subjects and includes the classes *BF 201 Management Development Programme 2*, *BF 301 Management Development Programme 3*, *MG 205 International Business Analysis* and *MG 306 Managing Across Cultures and Frontiers*.
- 11.81.6 A Principal Subject shall comprise classes amounting to no fewer than 100 credits (normally 20 at Level 1, 40 at Level 2 and 40 at Level 3).
- 11.81.7 The credits for a class may count towards the credit requirements for one of the Principal Subjects only.
- 11.81.8 In the Honours year, students will normally undertake a project with an international dimension amounting to 40 credits together with classes amounting to 40 credits in their other Principal Subject and 40 credits in international business classes.

Principal Subject and Honours Requirements

- | | | |
|---------|-------------------------|------------------------------------|
| 11.81.9 | Accounting | See Regulation 11.80.31 – 11.80.32 |
| | Business Enterprise | See Regulation 11.80.41 – 11.80.43 |
| | Business Technology | See Regulation 11.80.51 – 11.80.53 |
| | Economics | See Regulation 11.80.61 – 11.80.63 |
| | Finance | See Regulation 11.80.71 – 11.80.73 |
| | Hospitality and Tourism | See Regulation 11.80.81 – 11.80.85 |

Human Resource Management	See Regulation 11.80.91 – 11.80.93
Management	See Regulation 11.80.101 – 11.0.103
Management Science	See Regulation 11.80.111 – 11.80.113
Marketing	See Regulation 11.80.121 – 11.80.123

Curriculum

First Year

11.81.10 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BF 101	Management Development Programme 1	1	20
MG 111	Foundations of Management and International Business	1	20

Optional Classes

60 credits chosen from:

AG 111	Accounting Technologies *	1	20
AG 151	Introduction to Finance and Accounting**	1	20
EC 111	Introduction to Economics	1	20
HR 111	Managing People	1	20
MK 111	Introduction to Marketing	1	20
MS 111	Foundations of Business Analysis	1	20
MS 151	Harnessing Technology for Business	1	20
SH 111	Introduction to Hospitality and Tourism Management	1	20
Z1 151	Entrepreneurship Theory and Practice	1	20

* Only available to students admitted to study Accounting

** Students taking AG 111 Accounting Technologies may not take this class.

Elective Class(es)	20
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Second Year

11.81.11 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BF 201	Management Development Programme 2	2	20
MG 205	International Business Analysis	2	20
Principal Subject 1		2	40
Principal Subject 2		2	40

Third Year

11.81.12 All students are normally required to undertake study abroad at an approved institution for the equivalent of one or two Strathclyde semesters, and shall follow an approved curriculum of 120 credits which shall normally include the equivalent of the following classes:

Compulsory Classes		Level	Credits
BF 301	Management Development Programme 3	3	20
MG 306	Managing Across Cultures and Frontiers	3	20
Principal Subject 1		3	40
Principal Subject 2		3	40

Fourth Year

11.81.13 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
MG 414 Issues and Trends in International Business (Project)	4	40

Optional Classes

20 credits chosen from a list to be provided no later than academic session 2011/12:

together with

40 credits in the chosen Principal Business subject

and

a 40 credit Dissertation in the chosen Principal Business subject, with an international focus.

Progress

11.81.14 In order to progress to the second year of the course, a student must have accumulated at least 120 credits from the course curriculum, including those for *MG 111 Foundations of Management and International Business* and the foundation classes for the intended Principal Subjects.

11.81.15 In order to progress to the third year of the course, a student must have accumulated at least 240 credits from the course curriculum, including those for the class *BF 101 Management Development Programme 1* and the Level 2 compulsory classes relating to their chosen Principal Subjects.

11.81.16 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the course curriculum including those for all compulsory classes and the Level 3 compulsory classes relating to their chosen Principal Subjects. A student must normally pass the exchange period.

Final Assessment and Honours Classification

11.81.17 On successful completion of the Honours year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.

11.81.18 The final Honours classification for the degree of BA with Honours in International Business with (Principal Subject) will normally be based on:

- (i) the first assessed attempt at Level 4 classes taken in the fourth year;
- (ii) if appropriate, an oral examination.

Award

11.81.19 **BA with Honours:** In order to qualify for the award of the degree of BA with Honours in International Business with (Principal Subject), a candidate must have obtained no fewer than 480 credits from the course curriculum.

11.81.20 **BA with Honours (with International Study):** In order to qualify for the award of the degree of BA with Honours in International Business with International Study, a candidate must have obtained no fewer than 480 credits from the course curriculum.

11.81.21 **BA:** In order to qualify for the award of the BA in International Business, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

- 11.81.22 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in International Business, a candidate must have accumulated no fewer than 240 credits from the course curriculum including those for the first and second year compulsory classes.
- 11.81.23 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in International Business, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.81.24
to 11.81.30 (Numbers not used)

International Business and Modern Languages

BA with Honours in International Business and Modern Languages
BA with Honours in International Business and Modern Languages
with International Study

BA in International Business and Modern Languages

BA in International Business and Modern Languages with International Study

Diploma of Higher Education in International Business and Modern Languages

Certificate of Higher Education in International Business and Modern Languages

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.81.31 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

- 11.81.32 The courses are available by full-time study only.

Place of Study

- 11.81.33 The course includes study in the fourth year at a Business School or in the workplace as part of an internship or equivalent in the country of the main chosen language.

Course Structure

- 11.81.34 In the first year of study, all students shall undertake a curriculum which includes the classes *BF 101 Management Development Programme 1* and *MG 111 Foundations of Management and International Business*. At the end of the first year of study, all students shall choose subjects from this curriculum to study further, one of which shall be a Business subject and will become their Principal Subject in business. In addition, students can choose either two main languages to study to Honours year, following the two languages taken in first year or follow one main language to Honours year and take an additional language for one year. These shall be known as the Principal Subjects.
- 11.81.35 Over the second and third years of study, all students shall undertake a curriculum which centres on classes in the two chosen Principal Subjects

and includes the classes *BF 201 Management Development Programme 2*, *BF 301 Management Development Programme 3*, *MG 205 International Business Analysis* and *MG 306 Managing Across Cultures and Frontiers*.

11.81.36 A Principal Subject shall comprise classes amounting to no fewer than 100 credits (normally 20 at Level 1, 40 at Level 2 and 40 at Level 3).

11.81.37 Modern Language normally requires 40 credits at Level 1.

11.81.38 In the Honours year, students will normally undertake a project with an international business dimension amounting to 40 credits together with classes amounting to 40 credits in their chosen language and 40 credits in International Business classes.

Principal Subject and Honours Requirements

11.81.39 See Regulation 11.80.11.

Curriculum

First Year

11.81.40 All students shall undertake classes amounting 120 credits as follows:

Compulsory Classes		Level	Credits
BF 101	Management Development Programme 1	1	20
MG 111	Foundations of Management and International Business	1	20

Optional Classes

20 credits chosen from:

AG 111	Accounting Technologies *	1	20
AG 151	Introduction to Finance and Accounting**	1	20
EC 111	Introduction to Economics	1	20
HR 111	Managing People	1	20
MK 111	Introduction to Marketing	1	20
MS 111	Foundations of Business Analysis	1	20
MS 151	Harnessing Technology for Business	1	20
SH 111	Introduction to Hospitality and Tourism Management	1	20
Z1 151	Entrepreneurship Theory and Practice	1	20

* *Only available to students admitted onto a degree which includes Accounting may take this class.*

** *Students taking AG 111 Accounting Technologies may not take this class.*

together with 40 credits chosen from the Language classes only listed in Regulation 11.120.12.

Note: Classes in Modern Languages must be taken in subject pairs. Students must have taken 1A and 1B to qualify for admission to the Principal Subject. Students successfully completing an accelerated Language class (Introduction to a Language 1B) will be put forward for the Language 1B examination. If they pass, they will be qualified for admission to the Principal Subject.

Elective Classes 20

Second Year

11.81.41 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BF 201	Management Development Programme 2	2	20
MG 205	International Business Analysis	2	20
Principal Subject 1 (Business)		2	40
Principal Modern Language		2	20
Language Option		2	20

Third Year

11.81.42 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BF 301	Management Development Programme 3	3	20
MG 306	Managing Across Cultures and Frontiers	3	20
Principal Subject 1 (Business)		3	40
Principal Modern Language		3	20
Language Option		2	20

Fourth Year

11.81.43 The fourth year will normally be spent at a Business School or equivalent in the country of the main language where the student will attend an approved set of classes or participate in alternative work tasks.

The dissertation in the Principal Business Subject, normally on a topic relevant to that country and required as a component of the Fifth Year curriculum (see Regulation 11.81.44), may be started in this year abroad.

Fifth Year

11.81.44 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MG 414	Issues and Trends in International Business	4	20

together with

a 40 credit Dissertation in the chosen Principal Business subject, with an international focus

and

60 credits chosen from a list to be provided no later than academic session 2011/12.

Progress

11.81.45 In order to progress to the second year of the course, a student must have accumulated at least 120 credits from the course curriculum, including those for the class *MG 111 Foundations of Management and International Business* and the Level 1 classes for the intended Principal Subjects.

11.81.46 In order to progress to the third year of the course, a student must have accumulated at least 240 credits from the course curriculum, including those for the class *BF101 Management Development Programme 1* and the Level 2 compulsory classes relating to their chosen Principal Subjects.

11.81.47 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the course curriculum including those for all the compulsory classes and the Level 3 compulsory classes

relating to their chosen Principal Subjects and have achieved a satisfactory performance in the third year.

Final Assessment and Honours Classification

- 11.81.48 On successful completion of the Honours year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.
- 11.81.49 The final Honours classification for the degree of BA with Honours in International Business with a Modern Language will normally be based on:
- (i) the first assessed attempt at Level 4 classes taken in the fourth year;
 - (ii) the oral Modern Language examination
 - (ii) if appropriate, an oral examination.

Award

- 11.81.50 **BA with Honours:** In order to qualify for the award of the degree of BA with Honours in International Business and Modern Languages, a candidate must have obtained no fewer than 480 credits from the course curriculum.
- 11.81.51 **Distinction in the Spoken Language:** A candidate who qualifies for the award of a BA with Honours in International Business and Modern Languages degree and who has, according to prescribed criteria and in the opinion of the Honours Board of Examiners, attained a high level of performance in the oral examination may be awarded the Honours degree with distinction in the spoken language.
- 11.81.52 **BA with Honours (with International Study):** In order to qualify for the award of the degree of BA with Honours in International Business and Modern Languages with International Study, a candidate must have obtained no fewer than 480 credits from the course curriculum.
- 11.81.53 **BA:** In order to qualify for the award of the BA in International Business and Modern Languages, a candidate must have accumulated no fewer than 360 credits including those for the first, second and third year compulsory classes.
- 11.81.54 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in International Business and Modern Languages, a candidate must have accumulated no fewer than 240 credits including those for the first and second year compulsory classes.
- 11.81.55 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in International Business and Modern Languages, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

- 11.81.56 Transfer to the BA in *Principal Subject(s)* or the BA in International Business will be considered for students who fail to satisfy the Board of Examiners in the Modern Language. For avoidance of doubt, the BA in Business is not used for the title of an award.

Business Studies

Bachelor of Business Studies with Honours (*in named specialism*)

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1.]

Admission

- 11.82.1 Admission to the course shall normally be to applicants who hold appropriate qualifications that would allow entry into the Second Year. Students will be awarded RPL equivalent to 120 credits at Level 1.
- 11.82.2 In all cases, applicants, whose first language is not English, shall be required to demonstrate an appropriate level of competence in the English language.

Status of the Course

- 11.82.3 The course is offered at Honours level only. Students will choose a major and minor specialism prior to the start of the third year.

Mode of Study

- 11.82.4 The course is available by full-time study only.

Place of Study

- 11.82.5 The course is taught at the SKIL Centre, India. Semester 1 or 2 of the Third Year must normally be undertaken at the John Anderson Campus of the University of Strathclyde.

Course Structure

- 11.82.6 Prior to the start of third year students will choose a major and minor specialism as follows:
either
Operations Management
or
International Finance
or
Organisational Management
or
International Marketing.

In the fourth year, students shall undertake classes amounting to 40 credits in their major specialism and 20 in their minor specialism.

Curriculum

First Year

- 11.82.7 The first year is not taught as part of the course.

Second Year

- 11.82.8 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
Xx xxx	Business Accounting and Finance	2	20
Xx xxx	Business Economics	2	20
Xx xxx	Management in a Global Context	2	20

Xx xxx	Organizational Behaviour	2	10
Xx xxx	International Marketing and Markets	2	10
Xx xxx	Operations Management	2	10
Xx xxx	Principles of Management	2	10
Xx xxx	Principles of Organisation	2	10
Xx xxx	Business Communication	2	10
Xx xxx	Business Statistics	2	10

Third Year

11.82.8 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
Xx xxx	The International Manager	3	20
Xx xxx	New Venture Creation	3	20
Xx xxx	Strategic Management	3	20

Optional Classes

60 credits, including no fewer than 20 in each of the two specialisms, chosen from Level 3 classes offered by the Strathclyde Business School.

Fourth Year

11.82.9 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
Xx xxx	Research Methods and Project	4	40
Xx xxx	Issues and Trends in Business and Management	4	20

Optional Classes

60 credits including 40 from the major specialism and 20 from the minor specialism chosen from:

Xx xxx	Advanced Operations Management 1	4	20
Xx xxx	Advanced Operations Management 2	4	20
Xx xxx	Advanced International Finance 1	4	20
Xx xxx	Advanced International Finance 2	4	20
41 432	Advanced Organisation Behaviour	4	20
Xx xxx	Advanced Organisational Management 2	4	20
Xx xxx	Advanced International Marketing 1	4	20
Xx xxx	Advanced International Marketing 2	4	20

Progress

11.82.10 In order to progress to the third year of the course, a student must have accumulated at least 240 credits including 120 from the course curriculum,

11.82.11 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits including 240 from the course curriculum.

Final Assessment and Honours Classification

11.82.12 On successful completion of the Honours year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.

11.82.13 The final Honours classification for the degree of Bachelor of Business Studies with Honours will normally be based on:

- (i) the first assessed attempt at Level 4 classes taken in the fourth year;

(ii) if appropriate, an oral examination.

Award

11.82.14 **BA with Honours:** In order to qualify for the award of the degree of Bachelor of Business Studies with Honours (*in named specialism*), a candidate must have accumulated no fewer than 480 credits including 360 from the course curriculum.

11.82.15 to
11.82.39 (number not used)

Bachelor of Business Administration with Honours (*in named specialism*)

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1.]

Admission

11.82.40 Admission to the course shall normally be to applicants who hold appropriate qualifications that would allow entry into the Second Year.

Students will be awarded RPL equivalent to 120 credits at Level 1.

11.82.41 In all cases, applicants whose first language is not English, shall be required to demonstrate an appropriate level of competence in the English language.

Status of the Course

11.82.42 The course is offered at Honours level only. Students will choose a specialism prior to the start of the third year.

Mode of Study

11.82.43 The course is available by full-time study only.

Course Structure

11.82.44 Prior to the start of third year students will choose a specialism from which they take at least 40 credits in both their third and fourth year.

Curriculum

First Year

11.82.45 The first year is not taught as part of the course.

Second Year

11.82.46 All students shall undertake classes amounting to 120 credits as follows

Compulsory Classes	Level	Credits
BF 200 Leadership Development Programme 1	2	20

And 100 credits chosen from:

Optional Classes	Level	Credits
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MS 2xx	Business Analysis & Supporting Technologies	2	20
EC 211	Business Economics	2	20
AG 2XX	Business Accounting & Finance	2	20
Z1216	Entrepreneurship: Opportunities and Ventures	2	20
MK 208	Consumer Behaviour in a Global Context	2	20
MG 2XX	Management in a Global Context	2	20
HR 206	Organizational Behaviour	2	20

Third Year

11.82.47 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BF 3XX	Leadership Development Programme 2	3	20
Z1 211	New Venture Creation	3	20
MG 2XX	Strategic Management	3	20

Optional Classes

60 credits at Level 3 chosen from Level 3 classes offered by the Strathclyde Business School, subject to the approval of the Course Director. No fewer than 40 credits must be taken in their chosen specialism.

Fourth Year

11.82.48 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MG 414	Issues and Trends in Business and Management	4	20
BF 4XX	Leadership Development Programme 3	4	20

together with a 40 credit Dissertation in the chosen Principal Business subject and 40 credits at Level 4 from the Principal Business subject classes offered by the Strathclyde Business School listed in regulation 11.80 subject to the approval of the Course Director.

Progress

11.82.49 In order to progress to the third year of the course, a student must have accumulated at least 240 credits including 120 from the course curriculum,

11.82.50 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits including 240 from the course curriculum.

Final Assessment and Honours Classification

11.82.51 On successful completion of the Honours year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.

11.82.52 The final Honours classification for the degree of Bachelor of Business Administration with Honours will normally be based on:

- (i) the first assessed attempt at Level 4 classes taken in the fourth year;
- (ii) if appropriate, an oral examination.

Award

11.82.53 **BBA with Honours:** In order to qualify for the award of the degree of Bachelor of Business Administration with Honours (*in named specialism*), a candidate must have obtained no fewer than 480 credits.

11.82.54 to
11.89 (numbers not used)

Validated Courses

11.90 Business

Diploma of Higher Education (Business) Certificate of Higher Education (Business)

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Admission

- 11.90.1 In addition to the requirements of Regulation 2, applicants will normally be required to attend for interview as part of the selection process. Direct entry to the Diploma may be permitted subject to approval of the Board of Study on the recommendation of the Course Director. In such cases, account will be taken of prior learning. Where direct entry to the Diploma is permitted, the student will be granted an appropriate number of credits by the Board of Study on the recommendation of the Course Director.

Status of the Courses

- 11.90.2 All students are normally admitted in the first instance as potential Diploma students.

Mode of Study

- 11.90.3 The courses are available by full-time study only.

Place of Study

- 11.90.4 The courses are taught at the City of Glasgow College

Curriculum

First Year

- 11.90.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CC 121	Psychology 1A	1	20
CC 122	Introduction to Marketing	1	20
CC 123	Managing People	1	20
CC 124	Introduction to Economics	1	20
CC 125	Business Law	1	20
CC 126	Information Technology	1	10
CC 127	Statistics	1	10

Second Year

- 11.90.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
CC 217	Management Development Programme 2	2	20
Either			
CC 218	International Marketing	2	20
Or			
CC 215	EU Law	2	20

Optional Classes

40 credits in two of the Principal Subjects below:

Marketing

CC 207	Marketing Research	2	20
CC 219	Consumer Behaviour	2	20

Human Resource Management

CC 209	Work Psychology for HRM	2	20
CC 210	Work and Organisational Psychology	2	20

Business Law

CC 2XX	Business Law	2	20
CC 208	Employment Law	2	20

Progress

11.90.7 In order to progress to the second year of the course, a student must normally have accumulated no fewer than 120 credits from the course curriculum.

Award

11.90.8 **Diploma of Higher Education:** In order to qualify for the award of the Diploma of Higher Education (Business), a student must have accumulated no fewer than 240 credits from the course curriculum.

11.90.9 **Certificate of Higher Education:** In order to qualify for the award of the Certificate of Higher Education (Business), a student must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.90.10 A student who has accumulated no fewer than 240 credits from the course curriculum, including those for all the compulsory classes, and who is deemed to have achieved an appropriate standard of performance, may be permitted to transfer to the third year of the BA degree course in the Strathclyde Business School.

11.91
to 11.119 (Numbers not used)

Arts and Social Sciences

11.120 **Faculty Courses**

Arts and Social Sciences

BA with Honours in (Principal Subject(s))

BA in Arts and Social Sciences

Diploma of Higher Education in Arts and Social Sciences

Certificate of Higher Education in Arts and Social Sciences

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Admission

11.120.1 Regulation 2 shall apply.

Status of the Courses

11.120.2 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.120.3 The courses are available by full-time and part-time study.

Place of Study

11.120.4 Certain subjects, such as Geography, History, Modern Languages and Psychology, may require study outwith the University.

Course Structure (Full-time Study)

11.120.5 At Level 1, all full-time students shall undertake a curriculum which shall normally amount to 120 credits. At the end of the first year, all students shall choose two subjects from this curriculum for further study. These shall be known as the First and Second Principal Subjects.

In order to take a Principal Subject, a student must normally have obtained a pass in the Level 1A and 1B classes for that subject.

11.120.6 Over the second and third years of study, all students shall undertake a curriculum which centres on the two Principal Subjects and must include a minimum of 60 credits at Level 3. A First Principal Subject shall comprise no fewer than 60 credits at Level 2 and 60 credits at Level 3 and a Second Principal Subject comprising no fewer than 60 credits at Level 2. In addition, students shall undertake a further 40 credits in either their First or Second Principal Subjects; the remaining 20 credits may be chosen from either their First or Second Principal Subjects or from elective class(es).

11.120.7 All students wishing to be considered for admission to Honours should consult specific subject Honours selection criteria in choosing their second and third year curriculum.

Students wishing to be considered for

- (i) a Single Honours degree must normally study that subject to the level of a First Principal Subject.

- (ii) Joint Honours degree must normally undertake no fewer than 120 credits in each of their Principal Subjects.
- (iii) a Major/Minor Honours degree must normally undertake no fewer than 120 credits in the Major Subject and no fewer than 100 in the Minor

11.120.8 The credits for a class may count towards the credit requirements for one of the Principal Subjects only.
Subject to the prior approval of the Board of Study or the Board's nominee in a particular session, classes offered by the University of Glasgow may be taken in place of classes offered by the Faculty of Humanities and Social Sciences.

Principal Subject and Honours Specialisation Requirements

11.120.10

English	See Regulations 11.120.41 – 11.120.45
Geography	See Regulations 11.120.51 – 11.120.56
History	See Regulations 11.120.61 – 11.120.65
Journalism and Creative Writing	See Regulation 11.120.71 – 11.120.72
Law	See Regulation 11.120.81 – 11.120.84
Modern Languages (French, Italian and Spanish)	See Regulations 11.120.91 – 11.120.97
Politics	See Regulations 11.120.101 – 11.120.105
Psychology	See Regulations 11.120.111 – 11.120.117
Sociology	See Regulations 11.120.121 – 11.120.126
Economics	See Regulations 11.120.131 – 11.120.133
Hospitality and Tourism	See Regulation 11.120.141 – 11.120.142
Human Resource Management	See Regulation 11.120.151 – 11.120.152
Marketing	See Regulation 11.120.161 – 11.120.162
Mathematics	See Regulations 11.120.171 – 11.120.171

Permissible Combinations of Subjects for Pass and Honours Degrees

11.120.11 Principal Subjects are normally available in the following combinations:

English										
H	French									
H	H	Geography								
H	H	H	History							
H	H	H	H	Italian						
H	H	H	H	H	Journalism and Creative Writing					
H	H	H	H	H	H	Law				
H	H	H	H	H	H	H	Politics			
H	H	H	H	H		H	H	Psychology		
H	H	H	H	H	H	H	H	H	Sociology	
H	H	H	H	H	H	H	H	H	H	Spanish
<i>Non HaSS Subjects</i>										
P	H	H	H	H	H	H	H	H	H	Economics
H	H	H	H	H	H	H	H	H	H	Human Resource Management
	H			H						Marketing

		P					P	H			Mathematics
	H	H		H						H	Hospitality and Tourism

H Combinations which may be taken for Honours and for the Ordinary degree

P Combinations which may not be continued beyond Ordinary degree level.

Single Honours degrees are available in the following Principal Subjects:

English
 Geography
 History
 Politics
 Psychology
 Sociology

Curriculum (Full-time Study)

First Year

11.120.12 Beginning in session 2013-14 all students who would have been admitted into First Year under these regulations will be admitted under the new regulations for the BA Honours in Humanities and Social Sciences.

Second Year

11.120.13 All full-time students shall undertake classes amounting to 120 credits as follows:

	Level	Credits
First Principal Subject	2	60
Second Principal Subject	2	60

Third Year

11.120.14 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes	Level	Credits
First Principal Subject	3	60

Optional Classes

No fewer than 60 credits chosen from:
 either

First Principal Subject 3 40

or

Second Principal Subject 3 40

together with

either

First Principal Subject 20

or

Second Principal Subject 20

or

Elective Class(es) 20

Classes at Levels 2 and 3 and Principal Subject Requirements

11.120.15

Available as First or Second Principal Subjects

English	See Regulation 11.120.41
Geography	See Regulation 11.120.52
History	See Regulation 11.120.61
Journalism and Creative Writing	See Regulation 11.120.71
Law	See Regulation 11.120.81
Modern Languages: (French, Italian and Spanish)	See Regulation 11.120.91
Politics	See Regulation 11.120.101
Psychology	See Regulation 11.120.112
Sociology	See Regulation 11.120.121

Non-HaSS Principal Subjects

Economics	See Regulation 11.120.131
Hospitality and Tourism	See Regulation 11.120.141
Human Resource Management	See Regulation 11.120.151
Marketing	See Regulation 11.120.161
Mathematics and Statistics	See Regulation 11.120.171

Joint and Major/Minor Honours

11.120.16 All full-time students shall undertake classes amounting to 120 credits at Level 4 which meet the specialisation requirements for both subjects. Students studying a curriculum that includes Economics, Human Resource Management or Hospitality and Tourism can opt to undertake a 20 credit dissertation in one of these subjects. Curriculum restrictions may apply – see relevant subject regulations below. Students studying other non-HaSS subjects to joint honours level must undertake their dissertation in the HaSS subject.

Ordinary Degree Structure (Part-time Study)

11.120.17 The full-time BA degree course of study may be taken on a part-time basis. Students may transfer, at the discretion of the Board of Study, from full-time study to part-time, and vice versa. Each year of part-time study shall normally comprise 60 credits from the classes required for full-time study.

Progress

11.120.18 A student who fails a class which is not a compulsory requirement for the progression in a Principal Subject, may be permitted to take an appropriate substitute class.

11.120.19 A student who has been excluded from the degree examinations in a class in any one year, but has nevertheless satisfied the relevant progress regulations, shall be required to re-attend the class.

Progress (Full-time Study)

11.120.20 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum including those for the Level 1 classes for the intended Principal Subjects.

- 11.120.21 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum and have satisfied the requirements relevant to their chosen Principal Subjects.
- 11.120.22 In order to progress to the fourth year of the course, a student must normally have accumulated no fewer than 360 credits from the course curriculum and met the threshold criteria for admission to Honours in the particular subject(s).

Progress (Part-time Study)

- 11.120.23 In any year of study, students must normally pass all classes taken.
- 11.120.24 Progress regulations as defined for full-time study shall be applicable normally after periods of 120 credits.

Final Honours Classification

- 11.120.25 On successful completion of the fourth year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.
- 11.120.26 The final Honours classification will normally be based on
- (i) the first assessed attempt at compulsory and specified optional classes taken in the Honours year and, as appropriate, in the third year;
 - (ii) if appropriate, an oral examination.

Award

- 11.120.27 **BA with Honours:** In order to qualify for the award of the BA with Honours in (*Principal Subject(s)*), a candidate must have accumulated no fewer than 480 credits from the course curriculum.
- 11.120.28 *For Modern Language students only: **Distinction in the Spoken Language:** A candidate who qualifies for the award of the degree of BA with Honours in Modern Languages or BA with Honours in a Modern Language with another subject and who has, according to prescribed criteria and in the opinion of the BA Honours Board of Examiners, attained a high level of performance in the oral examination may be awarded the Honours degree with Distinction in the Spoken Language.*
- 11.120.29 **BA:** In order to qualify for the award of the BA in Arts and Social Sciences, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.120.30 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Arts and Social Sciences, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.120.31 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Arts and Social Sciences, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.120.32 to 11.120.40 (Numbers not used)

Principal Subject and Honours Requirements

Specialisation in English

Principal Subject Curriculum in English

11.120.41 Students taking English as a Principal Subject shall undertake a curriculum in English as follows:

English as a First Principal Subject

Compulsory Classes

QQ 264	Renaissance Literature	2	20
QQ 265	Literature, Criticism, Theory	2	20
QQ 266	Enlightenment to Romanticism	2	20
QQ 607	Victorian Literature	3	20
QQ 608	Twentieth Century Literature	3	20

Optional Classes

20 credits chosen from:

ES 734	Postcolonial Literatures	3	20
P3 625	Literary Journalism	3	20
QQ 302	Order and Nature in Renaissance Writing	3	20
QQ 303	Labouring-Class Poetry in the Long Eighteenth Century	3	20
QQ 304	Sin in Renaissance Drama	3	20
QQ 305	Arthurian Legend from Monmouth to Monty Python	3	20
QQ 607	Victorian Literature	3	20
QQ 608	Twentieth Century Literature	3	20
QQ 609	America in the 1920s	3	20
QQ 610	Style	3	20
QQ 611	Shakespeare: From Comedy to History Play	3	20
QQ 612	The Sexed Self: Gender, Sexuality, Autobiography	3	20
QQ 613	Scottish Literature: 1770-1914	3	20
QQ 614	Meaning in Literature	3	20
QQ 615	Language and Society	3	20
QQ 616	The Glasgow Novel	3	20
QQ 617	Literature in the First World War	3	20
QQ 618	Detective Fiction	3	20
QQ 622	Children's Literature	3	20
QQ 623	Reading Poetry	3	20
QQ 624	Journalism and Popular Culture	3	20
QQ 626	Directing in the Theatre	3	20
QQ 627	From Greek Theatre to the National Theatre of Scotland	3	20
QQ 628	20th Century Scottish Drama	3	20

English as a Second Principal Subject

Compulsory Classes

QQ 264	Renaissance Literature	2	20
QQ 265	Literature, Criticism, Theory	2	20
QQ 266	Enlightenment to Romanticism	2	20

Single Honours Curriculum in English

11.120.42 All students shall undertake a curriculum in English as follows:

Compulsory Class	Level	Credits
QQ 701 Dissertation in English	4	20

Optional Classes

100 credits chosen from:

P3 724 The Journalism of War	4	20
P3 728 Ethical Issues in Journalism	4	20
QQ 403 Animals and the Writing of Fiction	4	20
QQ 404 Women Writing Revolution	4	20
QQ 405 Introduction to Digital Humanities	4	20
QQ 406 Global Modernisms	4	20
QQ 408 Classical Literature in Translation	4	20
QQ 409 Resource Literature	4	20
QQ 410 Contemporary Travel Writing	4	20
QQ 411 Philosophy and Literature: The Science of Man	4	20
QQ 702 Journeys and Travel Writing	4	20
QQ 703 Time Represented and Experienced	4	20
QQ 704 The Sound of Poetry	4	20
QQ 707 Shakespeare: From Tragedy to Tragicomedy	4	20
QQ 708 Shakespeare and Language	4	20
QQ 709 Screen Adaptation	4	20
QQ 710 Scottish Literary Modernism	4	20
QQ 711 Oral Narratives and Fairytales	4	20
QQ 712 The Nineteen Thirties: Literature and Culture	4	20
QQ 713 Language and Media	4	20
QQ 714 Victorian Gothic	4	20
QQ 715 An Introduction to Gay and Lesbian Literature	4	20
QQ 716 Experimental Literatures	4	20
QQ 717 La Belle Epoque: Edwardian Literature and Culture, 1900-1914	4	20
QQ 718 Transatlantic Comic Writing 1900-1950	4	20
QQ 720 Philosophy and Science in the Enlightenment	4	20
QQ 721 Vladimir Nabokov – Two Great Novels	4	20
QQ 722 Cultures of Transgression	4	20
QQ 723 Media and Literary Publics	4	20
QQ 725 The Dramatic Work in Performance	4	20
QQ 726 Literary Snobbery	4	20
QQ 727 Present-day Victorians	4	20
QQ 729 Studio Theatre Performance	4	20

Major Honours Curriculum in English with Another Subject

11.120.43

All students shall undertake a curriculum in English as follows:

Compulsory Class	Level	Credits
QQ 701 Dissertation in English	4	20

Optional Classes

60 credits chosen from the list of optional classes in Regulation 11.120.42.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in English and Another Subject

11.120.44 All students shall undertake a curriculum in English as follows:

Optional Classes	Level	Credits
Either		
60 credits chosen from the list of optional classes in Regulation 11.120.42.		
Or		
QQ 701 Dissertation in English	4	20
and 40 credits chosen from Regulation 11.120.42		

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in English with Another Subject

11.120.45 All students shall undertake a curriculum in English as follows:

Optional Classes
 40 credits chosen from the list of optional classes in Regulation 11.120.42.
 The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.46
 to 11.120.50 (Numbers not used.)

Specialisation in Geography

11.120.51 All students taking any class or classes in Geography are normally required to attend as an essential part of the course:

- (i) Laboratory practicals including submission of laboratory work as required; and
- (ii) Field courses and excursions, as appropriate to their level of study.

Principal Subject Requirements

11.120.52 Students taking Geography as a Principal Subject shall undertake a curriculum in Geography as follows:

Geography as a First Principal Subject

Compulsory Classes	Level	Credits
L7 205 Geographies of Globalisation	2	20
L7 207 Practising Human Geography	2	20
L7 208 Geographies of Mobility and Knowledge	2	20
L7 315 Geographical Project	3	20

Optional Classes

40 credits chosen from:

L3 366 Nationalism, Identity and Culture	3	20
L3 367 Space, Resistance and Power	3	20
L3 369 Globalisation and Anti-globalisation	3	20
L7 316 Resources, Environment and Development	3	20

L7 317	Urban Historical Geography	3	20
L7 318	Cultural Geography	3	20
L7 364	State Spaces	3	20
L7 365	Forced Migration	3	20
L7 368	Global Economy, Neoliberal Economy	3	20
P3 363	Media and Society	3	20
L7 369	Twentieth Century Technologies	3	20
L7 321	Geography of Gender	3	20
L7 319	Geographies of Environmental Change	3	20
L7 320	Rural Geography	3	20
L7 322	Geographies of Identity	3	20
X7301	Geographies of the Body and Embodiment	3	20

Geography as a Second Principal Subject

Compulsory Classes

L7 205	Geographies of Globalisation	2	20
L7 207	Practicing Human Geography	2	20
L7 208	Geographies of Mobility and Knowledge	2	20

Single Honours Curriculum in Geography

11.120.53 All students shall undertake a curriculum in Geography as follows:

Compulsory Class	Level	Credits
Class		
L7 420 Dissertation in Geography	4	20
Optional Classes		
100 credits chosen from:		
L3 405 Technology and Society	4	20
L3 463 Urban Civility and Conflict	4	20
L3 464 Hazards, Risk and Society	4	20
L3 466 Environment and Society	4	20
L7 416 Agriculture and Environment in Africa	4	20
L7 417 Advanced Urban Geography	4	20
L7 418 Applied Urban Geography	4	20
L7 419 Geographies of Social Class	4	20
L7 467 Diaspora and Transnationalism	4	20
P3 465 Communicating 'Terrorism' and War	4	20
L3 469 Nationalism, Ethnicity & 'Race': From Identity to Politics	4	20
L7 421 Economics Geography	4	20
L7 422 History of Geographical Thought	4	20
L7 423 Natural Hazards	4	20
L7 473 Modernism and Planning	4	20
L7 404 Dead Geographies	4	20

Major Honours Curriculum in Geography with Another Subject

11.120.54 All students shall undertake a curriculum in Geography as follows:

Compulsory Class	Level	Credits
L7 420 Dissertation in Geography	4	20

Optional Classes

60 credits chosen from the list of optional classes in Regulation 11.120.53.

Joint Honours Curriculum in Geography and Another Subject

11.120.55 All students shall undertake a curriculum in Geography as follows:

Optional Classes

either

60 credits chosen from the list of Optional Classes in Regulation 11.120.53.

or

L7 420 Dissertation in Geography 4 20

and 40 credits chosen from the list of Optional Classes in Regulation 11.120.53.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in Geography with Another Subject

11.120.56 All students shall undertake a curriculum in Geography as follows:

Optional Classes

40 credits chosen from the list of Optional Classes in Regulation 11.120.53.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.57

to 11.120.60 (Numbers not used)

Specialisation in History

Principal Subject Requirements

11.120.61 Students taking History as a Principal Subject shall undertake a curriculum in History as follows:

History as a First Principal Subject

Compulsory Class	Level	Credits
V1 326 Historiography and Research Methods	3	20

Optional Classes

100 credits chosen from:

Scottish History

V1 202 Scotland, 1603-1707	2	20
V1 214 History of Scotland, 1700-1832	2	20
V1 215 History of Scotland, 1832-1914	2	20
V1 327 History of Irish Society, 1660-1850	3	20
V1 328 Jacobitism, 1688-1788	3	20
V1 332 Scotland and the Americas in the Seventeenth Century	3	20
V1 333 Scotland's 'Highland Problem'?: Crown-Clan	3	20

V1 334	Scottish Society since 1914	3	20
V1 337	The Covenanters and the British Civil Wars, c1637-51	3	20
V1 377	Youth in Post-war Britain	3	20
V1 378	Oral History: Theory and Practice	3	20
V1 220	Scotland 1469-1603 Renaissance and Reformation	3	20

International History

V1 211	Aristocracy to Democracy: Politics in Britain, 1815-1918	2	20
V1 212	Cultures of Empire: The British Experience	2	20
V1 216	History of the United States of America since 1877	2	20
V1 217	Modern Europe	2	20
V1 303	France at War, 1870-1962	3	20
V1 304	The American West	3	20
V1 308	Scotland's Highland Problem: Crown-Clan Relations in the Sixteenth Century	3	20
V1 320	Bombers and Mash: Britain and the Home Front, 1939 – 1945	3	20
V1 322	Cold War Europe, 1945-1991	3	20
V1 323	Communism in Practice: the Case of Czechoslovakia	3	20
V1 325	From Samurai to Entrepreneurs: The Birth of Modern Japan	3	20
V1 330	Propaganda and War in the Twentieth Century	3	20
V1 335	Slavery in World History	3	20
V1 336	Society and Politics in Colonial India: 1880s-1947	3	20
V1 389	Cold War Europe, 1945-1991	3	20
V1 390	Sub-Saharan Africa and British Imperialism since 1800	3	20
V1 391	Empires and India: South Asia, 1526-1857	3	20
V1 393	Competing Nationalisms and Inter-State Conflicts in the Middle East: 1900-1973	3	20
V1 394	Madness & Society: Ancient to Present	3	20

Science, Technology and Medicine

V1 213	Disease and Society: An Introduction to the History of Medicine	2	20
V1 218	Science, Technology and the Making of the Modern World	2	20
V1 324	Dangerous Drugs and Magic Bullets: Social History of Medicines, 1800 – 2000	3	20
V1 338	The Victorian Mind	3	20
V1 392	Medicine and Warfare in the Twentieth Century	3	20

History as a Second Principal Subject Optional Classes

60 credits chosen from the list of optional classes above.

Single Honours Curriculum in History

11.120.62 All students shall undertake a curriculum in History as follows:

Compulsory Class	Level	Credits
V1 913 Dissertation in History	4	20

Optional Classes

100 credits chosen from the lists below including at least 40 credits from List A and 60 credits from List B.

List A: Special Subjects (classes must be taken in pairs as indicated)

V1 409	The Scramble for the Middle East 1: Arab Nationalism, Zionism and European Colonial Powers, 1914-1939	4	20
and			
V1 410	The Scramble for the Middle East 2: Arab Nationalism, Zionism and European Colonial Powers, 1914-1939	4	20
V1 412	Becoming British? Scotland, England and Ireland, in the Sixteenth Century 1	4	20
and			
V1 413	Becoming British? Scotland, England and Ireland, In the Sixteenth Century 2	4	20
V1 414	Rule Britannia?: The Monarchy and Anti-Monarchism in Victorian Britain 1	4	20
and			
V1 415	Rule Britannia?: The Monarchy and Anti-Monarchism in Victorian Britain 2	4	20
V1 425	Scandals and Ethics 1: The History of Pharmacy	4	20
and			
V1 426	Scandals and Ethics 2: The History of Pharmaceuticals	4	20
V1 427	Britain, France and European Unity 1: 1945-1956	4	20
and			
V1 428	Britain, France and European Unity 2: 1957-1973	4	20
V1 429	The 1707 Act of Union in a British and European Context 1	4	20
and			
V1 430	The 1707 Act of Union in a British and European Context 2	4	20

V1 435	The United States between the Wars 1: World War One and the Prosperity Decade	4	20
and			
V1 436	The United States Between the Wars 2: The Great Depression and the New Deal	4	20
V1 438	Science, Medicine and European Imperialism 1	4	20
and			
V1 439	Science, Medicine and European Imperialism 2	4	20
V1 442	Securing the Union 1: Scotland and Empire, 1707-53	4	20
and			
V1 443	Securing the Union 2: Scotland and Empire, 1707-53	4	20
V1 444	The Price of Health Care: The UK, Canada and USA, since 1800: 1	4	20
and			
V1 445	The Price of Health Care: The UK, Canada and USA, since 1800: 2	4	20
V1 446	Scotland and Britain 1: The Development of Scottish and British National Identities in Scotland from c1707 to c1850	4	20
and			
V1 447	Scotland and Britain 2: The Development of Scottish and British National Identities in Scotland since c1850	4	20
V1 454	Britain's Home Front: Myths and Memories of the People's War 1	4	20
and			
V1 455	Britain's Home Front: Myths and Memories of the People's War 2	4	20
V1 915	Twentieth Century Czechoslovakia 1: 1918-1948	4	20
and			
V1 916	Twentieth Century Czechoslovakia 2: 1948-1993	4	20
V1 941	Imperialism, Politics and Society in Britain 1: 1870–1914	4	20
and			
V1 942	Imperialism, Politics and Society in Britain 2: 1870–1914	4	20
V1 944	Social History of Work, 1880–1951 1: Perspectives	4	20
and			

V1 945	Social History of Work, 1880–1951 2: Primary Sources	4	20
V1 951 and V1 952	Madness in the Modern World 1 Madness in the Modern World 2	4 4	20 20
List B: Honours Classes*			
V1 404	France at War, 1870-1962	4	20
V1 405	Scottish Society since 1914	4	20
V1 406	Cold War Europe 1945-1991	4	20
V1 407	Bombers and Mash: Britain and the Home Front, 1939 – 1945	4	20
V1 408	Woman and the Family in Early Modern Scotland	4	20
V1 416	The Patriarchal Family in Early Modern Scotland	4	20
V1 419	Scotland's 'Highland Problem'?: Crown-Clan Relations in the Sixteenth Century	4	20
V1 420	Living under a Dictator: Politics and Society in Fascist Italy	4	20
V1 422	The Victorian Mind	4	20
V1 423	Scotland and the Americas in the Seventeenth Century	4	20
V1 424 c1637-51	The Covenanters and the British Civil Wars,	4	20
V1 431	Communism in Practice: the Case of Czechoslovakia	4	20
V1 432	Meiji Japan: Samurai to Entrepreneurs	4	20
V1 433	Jacobitism	4	20
V1 441	Youth in Post-war Britain	4	20
V1 449	The American West	4	20
V1 452	Society and Politics in Colonial India: 1880s-1947	4	20
V1 456	Oral History: Theory and Practice	4	20
V1 457	Madness & Society: Ancient to Present	4	20
V1 479	Slavery in World History	4	20
V1 482	Irish Society, c1700-1860	4	20
V1 491	British Politics since 1918	4	20
V1 493	Medicine and Warfare in the Twentieth Century 2	4	20
V1 494	Competing Nationalisms and Inter-State Conflicts in the Middle East: 1900-1973 2	4	20
V1 496	Science and Religion in Victorian England	4	20
V1 497	Sub-Saharan Africa and British Imperialism since 1800	4	20
V1 498	Empires and India: South Asia, 1526-1857 4	4	20
V1 499	Work & Community Placement in Oral History	4	20
V1 946	Dangerous Drugs and Magic Bullets: Social History of Medicines, 1800 – 2000	4	20
V1 950	British Foreign Policy in the 19th Century	4	20
V1 958	Propaganda and War in the Twentieth Century	4	20

* Some restrictions apply on combinations of classes in this list with those in List A - Special Subjects.

Major Honours Curriculum in History with Another Subject

11.120.63 All students shall undertake a curriculum in History as follows:

Compulsory Class		Level	Credits
V1 913	Dissertation in History	4	20

Optional Classes

40 credits chosen from List A in Regulation 11.120.62 and 20 credits chosen from List B in Regulation 11.120.62

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in History and Another Subject

11.120.64 All students shall undertake a curriculum in History as follows:

Optional Classes

40 credits chosen from List A in Regulation 11.120.62

and either

20 credits chosen from List B in Regulation 11.120.62

or

V1 913	Dissertation in History	4	20
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in History with Another Subject

11.120.65 All students shall undertake a curriculum in History as follows:

Optional Classes

40 credits chosen from List B in Regulation 11.120.62

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.66

to 11.120.70 (Numbers not used)

Specialisation in Journalism and Creative Writing

Principal Subject Requirements

11.120.71 Students taking Journalism and Creative Writing as a Principal Subject shall undertake a curriculum in Journalism and Creative Writing as follows:

Journalism and Creative Writing as a First or Second Principal Subject

Compulsory Classes		Level	Credits
P3 100	Journalism and Creative Writing 1	2	20
P3 101	Journalism and Creative Writing 2	3	20
P3 201	Journalism 2	2	20

P3 202	Journalism and Creative Writing 2	2	20
P3 301	Journalism 3	3	20
P3 302	Journalism and Creative Writing 3	3	20

Joint Honours Curriculum in Journalism and Creative Writing and Another Subject

11.120.72 All students shall undertake a curriculum in Journalism and Creative Writing as follows:

either Journalism

Compulsory Classes		Level	Credits
P3 403	Journalism Portfolio	4	20

Optional Classes

Either

40 credits chosen from

P3 400	Journalism and Politics	4	20
P3 401	Language and Media	4	20
P3 402	Journalism and Popular Culture	4	20
P3 405	Creating a Literary Journal	4	20
P3 724	The Journalism of War	4	20
P3 728	Ethical Issues in Journalism	4	20

or

20 credits chosen from the list of optional classes above and

P3 406	Dissertation in Journalism	4	20
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or

20 credits chosen from the list of optional classes above and

P3 409	Dissertation in Creative Writing	4	20
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or

Creative Writing

Compulsory Class

P3 408	Creative Writing Portfolio	4	20
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.73

to 11.120.80 (Numbers not used)

Specialisation in Law

Principal Subject Requirements

11.120.81 Students taking Law as a Principal Subject shall undertake a curriculum in Law as follows:

Law as a First Principal Subject

Optional Classes

120 credits chosen from:

M9 111	Criminal Law *	1	20
M9 112	Voluntary Obligations: Contract and Promise*	1	20
M9 113	Law and Society *	1	20
M9 115	Legal Process *	1	20
M9 207	Public Law 2	2	20
M9 208	Domestic Relations	2	20
M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20
M9 212	European Union Law	2	20
M9 305	Law, Film and Popular Culture	3	20
M9 307	Crime and Punishment	3	20
M9 308	Human Rights Law	3	20
M9 309	Employment Law	3	20
M9 310	Planning Law	3	20
M9 311	Banking Law and Finance	3	20
M9 312	Legal Theory	3	20
M9 313	Housing Law	3	20
M9 314	Intellectual Property Law	3	20
M9 317	Public International Law	3	20
M9 318	Competition Law	3	20
M9 319	Discrimination Law	3	20
M9 338	Local Government Law	3	20
M9 352	Internet Law	3	20

* *Students may select a maximum of 20 credits of Level 1 classes.*

Law as a Second Principal Subject

Optional Classes

80 credits chosen from the list of optional classes above.

Major Honours Curriculum in Law with Another Subject

11.120.82

All students shall undertake a curriculum in Law as follows:

Compulsory Class	Level	Credits
M9 4XX Dissertation in Law	4	20
Optional Classes		
40 credits chosen from:		
M9 404 Issues in Intellectual Property Law	4	20
M9 407 Law, Persons and Property	4	20
M9 408 European Union Law	4	20
M9 409 Criminology	4	20
M9 410 Public International Law	4	20
M9 411 Labour Law	4	20
M9 412 Law of Business Associations	4	20
M9 414 Mediation	4	20
M9 417 Legal Aspects of International Trade	4	20
M9 418 Law of Competition	4	20
M9 419 Criminal Law	4	20
M9 420 Legal Profession	4	20

M9 423	Social and Welfare Law	4	20
M9 426	Computer Law	4	20
M9 427	Legal Theory	4	20
M9 428	Legislation	4	20
M9 431	Media Law	4	20
M9 433	Constitutional Law	4	20
M9 446	Environmental Law	4	20
M9 452	Family Law	4	20
M9 456	Law, Justice and Society	4	20

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Law and Another Subject

11.120.83 All students shall undertake a curriculum in Law as follows:

Optional Classes

60 credits chosen from the list of optional classes in Regulation 11.120.82

Or

		Level	Credits
M9 498	Dissertation in Law	4	20

and 40 credits chosen from the list of optional classes in Regulation 11.120.82

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in Law with Another Subject

11.120.84 All students shall undertake a curriculum in Law as follows:

Optional Classes

40 credits chosen from the list of optional classes in Regulation 11.120.82.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.85
to 11.120.90 (Numbers not used)

Specialisation in Modern Languages

Principal Subject Requirements

11.120.91 Students taking a Modern Language as a Principal Subject must normally have obtained the credits from the corresponding Level 1 class in Regulation 11.120.11. Before entering a Level 3 language class, students must normally have obtained the credits from the corresponding Level 2 language class.
Before entering the second semester Language class in any year, students must normally have obtained the credits from the first semester Language class.

Students who fail to pass a first semester Language class after two attempts are not qualified to continue with the Language as a Principal subject. They may take Intercultural Studies as their Second Principal Subject.

Notwithstanding Regulation 11.120.12, such students may meet the credit requirements for their Second Principal Subject over the second and third years.

French

French as a First Principal Subject

Compulsory Classes		Level	Credits
R1 203	French Language 2A	2	20
R1 204	French Language 2B	2	20
R1 210	Dealing with Difference in France and Francophone World	2	20
R1 305	French Language 3A	3	20
R1 306	French Language 3B	3	20

Optional Classes

20 credits chosen from List A or List B in Regulation 11.120.92.

French as a Second Principal Subject

Compulsory Class		Level	Credits
R1 203	French Language 2A	2	20
R1 204	French Language 2B	2	20
R1 210	Dealing with Difference in France and Francophone World	2	20

Italian

Italian as a First Principal Subject

Compulsory Classes		Level	Credits
R3 200	Modern Italy – State, Culture and Society	2	20
R3 203	Italian Language 2A	2	20
R3 204	Italian Language 2B	2	20
R3 305	Italian Language 3A	3	20
R3 306	Italian Language 3B	3	20

Optional Classes

20 credits chosen from List A or List B in Regulation 11.120.92.

Italian as a Second Principal Subject

Compulsory Classes		Level	Credits
R3 200	Modern Italy – State, Culture and Society	2	20
R3 203	Italian Language 2A	2	20
R3 204	Italian Language 2B	2	20

Spanish

Spanish as a First Principal Subject

Compulsory Classes		Level	Credits
R4 200	Independence and Isolation in Spain and Latin America	2	20

R4 206	Spanish Language 2A	2	20
R4 207	Spanish Language 2B	2	20
R4 308	Spanish Language 3A	3	20
R4 309	Spanish Language 3B	3	20

Optional Classes

20 credits chosen from List A or List B in Regulation 11.120.92.

Spanish as a Second Principal Subject

Compulsory Classes		Level	Credits
R4 200	Independence and Isolation in Spain and Latin America	2	20
R4 206	Spanish Language 2A	2	20
R4 207	Spanish Language 2B	2	20

Intercultural Studies

Intercultural Studies as a Second Principal Subject

Compulsory Classes		Level	Credits
R1 100	Aspects of Cinema 2	2	20
together with 20 credits in the chosen language from			
R1 210	Dealing with Difference in France and Francophone World	2	20
R3 200	Modern Italy – State, Culture and Society	2	20
R4 200	Independence and Isolation in Spain and Latin America	2	20

Optional Classes

20 credits chosen from List B in Regulation 11.120.92

Subject to approval by the Subject Leader, the optional class may be replaced by 20 credits chosen from Level 2 and 3 classes offered by the Faculty of Humanities and Social Sciences.

Optional Classes in a Modern Language

11.120.92

List A: Culture Specific Classes		Level	Credits
<i>French</i>			
R1 310	Freedom and Identity in France and the Francophone World	3	20
<i>Italian</i>			
R3 374	Italian Stage and Screen	3	20
<i>Spanish</i>			
R4 374	The Struggle for Modernity in Spain and Latin America	3	20
List B: Intercultural Classes			
R9 370	From Page to Screen	3	20
R9 371	The Detective Story	3	20

R9 372	Women in the Political: Withdrawal and Participation	3	20
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Subject to approval by the Subject Leader, the optional class may be replaced by 20 credits chosen from Level 2 and 3 classes offered by the Faculty of Humanities and Social Sciences.

11.120.93 Admission to Joint Honours in a Modern Language and another subject
 All students must have met the requirements of Regulation 11.120.22. For admission to Joint Honours, students must have satisfied the First Principal Subject requirement in the language taken.
 Before admission to Honours, students are normally required to spend an academic year in residence in a country where the language is spoken, subject to the approval of the Head of the Centre for Language Learning.

11.120.94 Admission to Minor Honours in a Modern Language
 All students must meet the requirements of Regulation 11.120.22. For admission to Honours with a Modern Language as the Minor subject, students must have passed 40 Level 2 Language credits and 40 Level 3 Language credits in the Modern Language.
 Before admission to Honours, students are normally required to spend an academic year in residence in a country where the language is spoken, subject to the approval of the Head of School.

11.120.95 Admission to Minor Honours in Intercultural Studies
 All students must meet the requirements of Regulation 11.120.22. For admission to Honours with Intercultural Studies as the Minor subject students must have passed 80 credits in Intercultural Studies with at least 20 credits being at Level 3.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.96 Joint Honours Curriculum in a Modern Language and Another Subject
 All students shall undertake a curriculum in a Modern Language as follows:

French

Compulsory Classes

R1 502	French (Language) A	4	10
R1 503	French (Language) B	4	10
R1 505	French (Language) C	4	10
R1 506	French Studies 4 (Core)	4	10

Optional Classes

Either

R1 498	Dissertation in French	4	20
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Or

20 credits chosen from:

R1 402	The Occupation and its Portrayal in French Films	4	10
R1 407	France at War, 1934 – 1962	4	10

Italian

Compulsory Classes

R3 531	Italian (Language) A	4	10
R3 532	Italian (Language) B	4	10
R3 533	Italian (Language) C	4	10
R3 535	Italian Resistance Culture	4	10

Optional Classes

Either

R3 498	Dissertation in Italian	4	20
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Or

20 credits chosen from:

R3 534	Nineteenth and Twentieth Century Novelists	4	10
R3 536	The Theatre of the Eighteenth Century	4	10

Spanish

Compulsory Classes

R4 551	Spanish (Language) A	4	10
R4 552	Spanish (Language) B	4	10
R4 553	Spanish (Language) C	4	10
R4 555	Spanish and Latin American Studies: Essays	4	10

Optional Classes

Either

R4 498	Dissertation in Spanish	4	20
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Or

20 credits chosen from:

R4 403	Women Writing and Women Written	4	10
R4 476	Sociolinguistics of Spanish	4	10
R4 479	Spain Since Franco	4	10
R4 526	The Latin American Short Story	4	10

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.97 All students shall undertake a curriculum in the Modern Language as follows:

French Minor

Compulsory Classes

		Level	Credits
R1 502	French (Language) A	4	10
R1 503	French (Language) B	4	10
R1 505	French (Language) C	4	10
R1 506	French Studies 4 (Core)	4	10

Italian Minor

Compulsory Classes

R3 531	Italian (Language) A	4	10
R3 532	Italian (Language) B	4	10
R3 533	Italian (Language) C	4	10

R3 535	Italian Resistance Culture	4	10
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Spanish Minor

Compulsory Classes

R4 533	Spanish (Language) C	4	10
R4 551	Spanish (Language) A	4	10
R4 552	Spanish (Language) B	4	10
R4 555	Spanish and Latin American Studies: Essays	4	10

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Honours Curriculum in Modern Languages with a Business Subject

11.120.98 All students shall undertake a curriculum in Modern Languages as follows:

French

Compulsory Classes

		Level	Credits
R1 502	French (Language) A	4	10
R1 503	French (Language) B	4	10
R1 505	French (Language) C	4	10
R1 506	French Studies 4 (Core)	4	10

Italian

Compulsory Classes

R3 531	Italian (Language) A	4	10
R3 532	Italian (Language) B	4	10
R3 533	Italian (Language) C	4	10
R3 535	Italian Resistance Culture	4	10

Spanish

Compulsory Classes

R4 551	Spanish (Language) A	4	10
R4 552	Spanish (Language) B	4	10
R4 553	Spanish (Language) C	4	10
R4 555	Spanish and Latin American Studies: Essays	4	10

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.99 - 100 (Numbers not used)

Specialisation in Politics

Principal Subject Requirements

11.120.101 Students taking Politics as a Principal Subject shall undertake a curriculum in Politics as follows:

Politics as a First Principal Subject

Compulsory Classes

		Level	Credits
L2 201	International Relations and Global Politics	2	20
L2 202	Contemporary British Governance	2	20
L2 203	Modern Political Thought	2	20

L2 305	Research Methods for Political Scientists	3	20
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Optional Classes

40 credits chosen from:

L2 303	The Politics of European Integration	3	20
L2 304	Quantitative Methods for Social Research	3	20
L2 306	Elections and Voting in Britain	3	20
L2 307	Chinese Politics	3	20
L2 308	European Politics	3	20
L2 309	American Politics	3	20
L2 310	Scottish Politics	3	20
L2 311	Local Politics	3	20
L2 312	War, Terrorism and Conflict	3	20

* *Students must have taken the class Research Methods for Political Scientists before proceeding to Quantitative Methods for Social Research.*

Politics as a Second Principal Subject

Compulsory Class		Level	Credits
L2 201	International Relations and Global Politics	2	20
L2 202	Contemporary British Governance	2	20
L2 203	Modern Political Thought	2	20

Single Honours Curriculum in Politics

11.120.102 All students shall undertake a curriculum in Politics as follows:

Compulsory Class		Level	Credits
L2 499	Dissertation in Politics	4	20

Optional Classes

100 credits chosen from:

L2 408	Constitutional Change and Development in the United Kingdom	4	20
L2 410	Political Parties: Background to Policy Making	4	20
L2 411	Comparative Politics	4	20
L2 412	Green Politics	4	20
L2 413	Political Behaviour	4	20
L2 415	The European Policy Process	4	20
L2 417	Perspectives on British Governance	4	20
L2 418	Territorial Politics in Comparative Perspective	4	20
L2 419	Territorial Politics in the UK	4	20
L2 421	Feminism and Politics	4	20
L2 422	International Relations Theory in a Global Age: Rethinking the Key Concepts	4	20
L2 423	Difference and Democracy	4	20
L2 424	The Welfare State in Comparative Policy	4	20
L2 426	International Security: Concepts and Issues	4	20
L2 427	Transforming Democracies? Representation and Participation	4	20
L2 428	Crises, Disasters and Public Policy	4	20

L2 429 Human Relations in International Relations 4 20

Major Honours Curriculum in Politics with Another Subject

11.120.103 All students shall undertake a curriculum in Politics as follows:

Compulsory Class	Level	Credits
L2 499 Dissertation in Politics	4	20

and 60 credits chosen from the list of optional classes in Regulation 11.120.102.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Politics and Another Subject

11.120.104 All students shall undertake a curriculum in Politics as follows:

Optional Classes
either
60 credits chosen from the list of optional classes in Regulation 11.120.102.
or

	Level	Credits
L2 499 Dissertation in Politics	4	20

and 40 credits chosen from the list of optional classes in Regulation 11.120.102.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in Politics with Another Subject

11.120.105 All students shall undertake a curriculum in Politics as follows:

Optional Classes
40 credits chosen from the list of classes in Regulation 11.120.102.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.106

to

11.120.110 (Numbers not used)

Specialisation in Psychology

11.120.111 Students taking any class in Psychology are normally required to attend and perform satisfactorily in the practical and/or statistical work appropriate to their year of study.

Principal Subject Requirements

11.120.112 Students taking Psychology as a Principal Subject shall undertake a curriculum in Psychology as follows:

Psychology as a First Principal Subject

Compulsory Classes			Level	Credits
C8 201	Cognition and Neuropsychology		2	20
C8 202	Social and Health Psychology		2	20
C8 203	Introduction to Research Design and Analysis		2	20
C8 302	Research Methods in Psychology		3	20

Optional Classes

40 credits chosen from:

C8 303	Individual Differences		3	20
C8 304	Cognition		3	20
C8 305	Development		3	20
C8 306	Psychobiology		3	20
C8 307	Social Psychology		3	20

Psychology as a Second Principal Subject

Compulsory Classes

C8 201	Cognition and Neuropsychology		2	20
C8 202	Social and Health Psychology		2	20
C8 203	Introduction to Research Design and Analysis		2	20

Single Honours Curriculum in Psychology

11.120.113 All students shall undertake a curriculum in Psychology as follows:

Compulsory Classes			Level	Credits
C8 417	Conceptual and Historical Issues in Psychology		4	20
C8 498	Dissertation in Psychology		4	20

Optional Classes

80 credits chosen from:

C8 403	Psychoanalytic Personality Psychology		4	20
C8 409	Forensic Psychology		4	20
C8 410	Human Performance		4	20
C8 411	Physiological Psychology		4	20
C8 412	Psychology and Education		4	20
C8 413	Qualitative Methodologies in Practice		4	20
C8 415	Social Development		4	20
C8 416	Artificial Intelligence		4	20
C8 430	Clinical Aspects of Memory		4	20
C8 432	Health Psychology		4	20
C8 445	Practice Aspects of Memory		4	20
C8 499	Perception and Action		4	20
41 402	Advanced Organisational Behaviour		4	20

Major Honours Curriculum in Psychology with Another Subject (except Mathematics)

11.120.114 All students shall undertake a curriculum in Psychology as follows:

Compulsory Classes			Level	Credits
C8 417	Conceptual and Historical Issues in Psychology		4	20
36 498	Dissertation in Psychology		4	20

Optional Classes

40 credits chosen from

C8 403	Psychoanalytic Personality Psychology	4	20
C8 409	Forensic Psychology	4	20
C8 410	Human Performance	4	20
C8 411	Physiological Psychology	4	20
C8 412	Psychology and Education	4	20
C8 415	Social Development	4	20
C8 416	Artificial Intelligence	4	20
C8 430	Clinical Aspects of Memory	4	20
C8 432	Health Psychology	4	20
C8 403	Psychoanalytic Personality Psychology	4	20
C8 445	Practical Aspects of Memory	4	20
C8 499	Perception and Action	4	20
41 402	Advanced Organisational Behaviour	4	20

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Psychology and Another Subject (except Mathematics)

11.120.115 All students shall undertake a curriculum in Psychology as follows:

Compulsory Class	Level	Credits
C8 417 Conceptual and Historical Issues in Psychology	4	20

Optional Classes

40 credits chosen from the list of optional classes in Regulation 11.120.114.
or

C8 498 Dissertation in Psychology	4	20
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and 20 credits chosen from the list of optional classes in Regulation 11.120.114.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Psychology and Mathematics

11.120.116 All students shall undertake a curriculum in Psychology and Mathematics as follows

Compulsory Classes	Level	Credits
C8 417 Conceptual and Historical Issues in Psychology	4	20
C8 498 Dissertation in Psychology	4	20

Optional Classes

20 credits in Psychology chosen from the list of optional classes in Regulation 11.120.114 and 60 credits in Mathematics chosen from the list of optional classes in Regulation 11.120.172.

Minor Honours Curriculum in Psychology with Another Subject (except Mathematics)

11.120.117 All students shall undertake a curriculum in Psychology as follows:

Compulsory Class	Level	Credits
C8 417 Conceptual and Historical Issues in Psychology	4	20

Optional Classes

20 credits chosen from the list of optional classes in Regulation 11.120.114.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.118

to

11.120.120 (Numbers not used)

Specialisation in Sociology

Principal Subject Requirements

11.120.121 Students taking Sociology as a Principal Subject shall undertake a curriculum in Sociology as follows:

Sociology as a First Principal Subject

Compulsory Classes	Level	Credits
L3 208 Personal Troubles, Public Issues	2	20
L3 209 Power	2	20
L3 210 Sociological Theory, Method and Practice	2	20
L3 324 Sociological Project	3	20

Optional Classes

40 credits chosen from:

L3 301 Critical Approaches to Health and Illness	3	20
L3 310 Gendering the Social World	3	20
L3 323 Men and Masculinities in a Global Context	3	20
L3 325 Class and Inequalities in a Global Context	3	20
L3 366 Nationalism, Identity and Culture	3	20
L3 367 Space, Resistance and Power	3	20
L3 369 Globalisation and Anti-globalisation	3	20
L3 370 Sociology of Gender	3	20
L7 364 State Spaces	3	20
L7 365 Forced Migration	3	20
L7 368 Global Economy, Neoliberal Economy	3	20
P3 363 Media and Society	3	20
X7 798 Education: Policy, Practice and (re)Production	3	20
L7 369 Twentieth Century Technologies	3	20
L3 303 Social Issues in Contemporary Scotland	3	20

Sociology as a Second Principal Subject

Compulsory Classes	Level	Credits
L3 208 Personal Troubles, Public Issues	2	20
L3 209 Power	2	20

L3 210	Sociological Theory, Method and Practice	2	20
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Single Honours Curriculum in Sociology

11.120.122 All students shall undertake a curriculum in Sociology as follows

Compulsory Class		Level	Credits
L3 423	Dissertation in Sociology	4	20

Optional Classes

100 credits chosen from:

L3 403	Global Feminisms	4	20
L3 405	Technology and Society	4	20
L3 408	Disability Studies	4	20
L3 425	Rediscovering the Working Class: Investigations in Working Class studies	4	20
L3 463	Urban Civility and Conflict	4	20
L3 464	Hazards, Risk and Society	4	20
L3 466	Environment and Society	420	L7 467
	Diaspora and Transnationalism	4	20
P3 465	Communicating 'Terrorism' and War	4	20
L3 467	Sociology of Education	4	20
L3 468	Social Change and Revolution	4	20
L3 469	Nationalism, Ethnicity & 'Race': from Identity to Politics	4	20
XX XXX	Posthuman society	4	20

Major Honours Curriculum in Sociology with Another Subject

11.120.123 All students shall undertake a curriculum in Sociology as follows:

Compulsory Class		Level	Credits
L3 423	Dissertation in Sociology	4	20

Optional Classes

60 credits chosen from the list of optional classes in Regulation 11.120.123

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Sociology and Another Subject

11.120.124 All students shall undertake a curriculum in Sociology as follows:

Optional Classes		Level	Credits
either			
60 credits chosen from Regulation 11.120.123.			
or			
L3 423	Dissertation in Sociology	4	20
And 40 credits chosen from Regulation 11.120.123			

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in Another Subject with Sociology

11.120.125 All students shall undertake a curriculum in Sociology as follows:

Optional Classes

40 credits chosen from the list of optional classes in Regulation 11.120.123

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.126

to

11.120.130 (Numbers not used)

Specialisation in Economics Principal Subject Requirements

11.120.131 Students taking Economics as a Principal Subject shall undertake a curriculum in Economics as follows:

Economics as a First Principal Subject

Compulsory Classes

	Level	Credits
EC 207 Microeconomics 2	2	20
EC 208 Macroeconomics 2	2	20
EC 307 Microeconomics 3	3	20
EC 308 Macroeconomics 3	3	20

Optional Classes

40 credits chosen from:

EC 209 Economics of Firms and Industries	2	20
EC 210 International Trade and Development	2	20
EC 311 Introduction to Econometrics	3	20

Economics as a Second Principal Subject

Compulsory Classes

	Level	Credits
EC 207 Microeconomics 2	2	20
EC 208 Macroeconomics 2	2	20

Optional Classes

20 credits chosen from:

EC 209 Economics of Firms and Industries	2	20
EC 210 International Trade and Development	2	20

Joint Honours Curriculum in a HaSS Subject and Economics

11.120.133 All students shall undertake a curriculum as follows:

Compulsory Classes		Level	Credits
Either			
EC 403	Microeconomics 4	4	20
or			
EC 404	Macroeconomics 4	4	20
Optional Classes			
40 credits chosen from the following list of optional classes:			
EC412	Industrial Economics	4	20
EC413	Applied Econometrics	4	20
EC414	Financial Development and Economic Growth	4	20
EC415	Behavioural Economics	4	20
EC416	Natural Resource, Environmental & Energy Economics	4	20
EC419	Economics Dissertation	4	20

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.134
to 11.120.140 (Numbers not used)

Specialisation in Hospitality and Tourism Principal Subject Requirements

11.120.141 Students taking Hospitality and Tourism as a Principal Subject shall undertake a curriculum in Hospitality and Tourism as follows:

Compulsory Classes		Level	Credits
SH 215	Destination Positioning and Management	2	20
SH 221	Service Encounter Management	2	20
MG XXX	????	2	20
SH 320	Destination Fieldwork: Regeneration and Sustainability 20		3
SH 322	Hospitality and Tourism Industry Placement	3	20
SH 325	Events Management	3	20
	2		20

Joint Honours Curriculum in a Modern Language or Geography and Hospitality and Tourism

11.120.142 All students shall undertake a curriculum in Hospitality and Tourism as follows:

Compulsory Classes		Level	Credits
SH 410	Critical Hospitality and Tourism Studies	4	20
SH 424	Being an Ethical Manager	4	20

SH 4XX HTM Dissertation 4 20

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.143
to

11.120.150 (Numbers not used)

**Specialisation in Human Resource Management
Principal Subject Requirements**

11.120.151 Students taking Human Resource Management as a Principal Subject shall undertake a curriculum in Human Resource Management as follows:

Compulsory Classes		Level	Credits
HR 201	Managing Equality and Diversity	3	20
HR 202	Human Resource Development	2	20
HR 204	Work and Organisational Psychology	2	20
HR 205	Work Psychology for HRM	2	20
HR 300	Work, Employment and Society	3	20
HR 301	Employment Relations	3	20

Joint Honours Curriculum in a HaSS Subject and Human Resource Management

11.120.152 All students shall undertake a curriculum in Human Resource Management as follows:

Optional Classes

60 credits chosen from:

41 402	Advanced Organisational Behaviour	4	20
41 433	Human Resources in the Global Economy	4	20
HR402	Perspectives on Work and Employment	4	20
HR408	HRM and Employment Relations in Public Services	4	20
HR409	HRM Dissertation	4	20

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.153
to

11.120 160 (Numbers not used)

**Specialisation in Marketing
Principal Subject Requirements**

11.120.161 Students taking Marketing as a Principal Subject shall undertake a curriculum as follows:

Compulsory Classes		Level	Credits
MK 206	Consumer Behaviour	2	20
MK 207	Marketing Research	2	20
MK 317	Marketing Communications	3	20

MK 318	Strategic Marketing	3	20
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Optional Classes

40 credits chosen from:

MK 319	E-marketing	2	20
MK 320	Management of Sales Operations	2	20
MK 321	Marketing for Small Businesses	2	20
MK 322	Marketing in Contemporary Context	2	20
MK 323	Marketing of Services	2	20
MK 324	Retail Management	2	20
MK 325	Essentials in International Marketing	2	20

Joint Honours Curriculum in a Modern Language and Marketing

11.120.162 All students shall undertake a curriculum in Marketing as follows:

Compulsory Classes		Level	Credits
MK 412	Brand Management	4	20

Optional Classes

40 credits chosen from:

MK 410	Advances in Consumer Behaviour	4	20
MK 415	International Business Management	4	20
MK 416	Managing Customer Relations	4	20
MK 418	Social Marketing	4	20
MK 419	Sports Marketing	4	20
MK 421	Managing Integrated Marketing Comms: Theory & Practice	4	20

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

11.120.163

to

11.120.170 (Numbers not used)

Principal Subject Curriculum in Mathematics

11.120.171 Students taking Mathematics as a Principal Subject shall undertake a curriculum in Mathematics as follows:

Compulsory Classes		Level	Credits
MM 201	Linear Algebra and Differential Equations	2	20
MM 204	Probability and Statistical Interference	2	20
MM 302	Differential Equations	3	20
MM 304	Inference and Regression Modelling	3	20

Optional Classes

MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
MM 206	Mathematical and Statistical Computing	2	20
MM 300	Complex Variables and Integral Transforms	3	20
MM 301	Linear Algebra	3	20
MM 306	Numerical Analysis	3	20

MM 307 Stochastics and Financial Econometrics 3 20
Such other classes as may be approved by the Course Director.

Joint Honours Curriculum in a Psychology and Mathematics

11.120.172 All students shall undertake a curriculum in Mathematics as follows:

Optional Classes

60 credits chosen from:

MM 401	Communicating Mathematics and Stats	4	20
MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 403	Applicable Analysis	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 407	Applied Statistics in Society	4	20
MM 408	Mathematical Biology and Marine Population Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 414	Dynamical Models in Epidemiology	4	20

**Please note that not all of these classes will be available every year

11.120.173

to

11.120.180 (Numbers not used)

Humanities and Social Sciences

BA in the Faculty of Humanities and Social Sciences

Diploma of Higher Education

Certificate of Higher Education

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Degree

11.120.181 All students will normally have been admitted in the first instance to another Honours course in the Faculty of Humanities and Social Sciences.

Mode of Study

11.120.182 The courses are available by full-time and part-time study.

Curriculum (Full-time study)

First Year

11.120.183 All students shall undertake classes amounting to 120 credits chosen from the curriculum of a course delivered within the Faculty of Humanities and Social Sciences.

Second Year

11.120.184 All students shall undertake classes amounting to 120 credits chosen from the curriculum of a course delivered within the Faculty of Humanities and Social Sciences, including at least 100 credits at Level 2.

Third Year

11.120.185 All students shall undertake classes amounting to 120 credits chosen from the curriculum of a course delivered within the Faculty of Humanities and Social Sciences, including at least 60 credits at Level 3.

Curriculum (Part-time study)

11.120.186 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

11.120.187 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the curriculum of a course delivered within the Faculty of Humanities and Social Sciences.

11.120.188 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the curriculum of a course delivered within the Faculty of Humanities and Social Sciences.

Award

11.120.189 **BA:** In order to qualify for the award of the degree of BA in the Faculty of Humanities and Social Sciences, a candidate must have accumulated no fewer than 360 credits from the course curriculum. Students who elect to graduate after completing three Levels of an Honours programme, or who gain 360 credits but do not meet the Honours entry requirements of their Subject(s), or who fail to gain 120 credits in their Honours year, may graduate with the degree of BA in the Faculty of Humanities and Social Sciences.

11.120.190 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in the Faculty of Humanities and Social Sciences, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.120.191 **Certificate of Higher Education** In order to qualify for the award of a Certificate of Higher Education in the Faculty of Humanities and Social Sciences, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.120.192
to 11.120.199 (Number not used)

11.122 **Childhood Practice**

BA with Honours (Hons) in Childhood Practice
BA in Childhood Practice
Diploma of Higher Education in Childhood Practice

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Admission

11.122.1 Notwithstanding Regulation 11.1.1, applicants will normally have achieved the equivalent of 120 credits at SCQF Level 7 and be employed in a post relevant to the field of study.

Direct entry to Phase 2 120 credits at SCQF Level 7 and 60 credits at SCQF Level 8 through RPL claim

Direct Entry to Phase 3 240 credits, 120 at SCQF level 7 and 120 credits at SCQF Level 8

Direct entry to Level 10 Honours year for graduates who hold a BA in Childhood Practice (BACP) Pass Degree

Status of the Degree

11.122.2 All students are admitted in the first instance as potential degree students. The course is offered to Bachelor (honours) degree level. Transfer to the BA in the Faculty of Humanities and Social Sciences may be possible at any time subject to satisfying the appropriate progress regulations.

Mode of Study

11.122.3 The courses are offered by part-time study only at the University of Strathclyde. Additionally the courses may be delivered as an outreach course when requested by a funding local authority

Minimum Periods of Study

11.122.4 For direct entry to Second Year (Phase 1) the minimum period of study shall normally be 6 years.

For direct entry to Third Year (Phase 3) the minimum period of study shall normally be 4 years.

For direct entry to Fourth Year (Hons) (Phase 5) the minimum period of study shall normally be 2 years.

Maximum of Periods of Study

11.122.5 For direct entry to Second Year (Phase 1) the maximum period of study shall normally be 8 years.

For direct entry to Third Year (Phase 3) the maximum period of study shall normally be 6 years.

For direct entry to Fourth Year (Hons) (Phase 5) the maximum period of study shall normally be 4 years.

Curriculum (Part-time Study)

- 11.122.6 Students shall normally undertake classes amounting to no fewer than 60 credits in each academic session.

First Year Not Taught

Second Year (Phase 1)

- 11.122.7 All students shall undertake classes amounting to no fewer than 60 credits as follows:

Compulsory Classes

X9 723	Academic Literacy, Communication and Professional Values	2	20
X9 171	A Child's World: Experiences in Learning Environments	2	20
X9 277	Contemporary Childhood: A Sociological Exploration	2	20

Second Year (Phase 2)

- 11.122.8 All students shall undertake classes amounting to no fewer than 60 credits as follows:

Compulsory Classes

X9 276	Children's Emotional and Social Development : Foundations for Learning and Health	2	20
X9 272	Playful Pedagogy: Children as thinkers	2	20
X9 275	Children's Emotional and Social Development: Observing Child Development	2	20

Third Year (Phase 3)

- 11.122.9 All students shall undertake classes amounting to no fewer than 60 credits as follows:

Compulsory Classes		Level	Credits
X7 300	Management and Leadership including Issues of Quality	3	20
X9 373	Leading Effective Pedagogy: Supporting Children as Active Learners	3	20
X7 306	Children's Rights and Working in Multi-Professional Teams	3	20

Third Year (Phase 4)

11.122.10 All students shall undertake classes amounting to no fewer than 60 credits as follows:

Compulsory Classes		Level	Credits
X7 304	Leading Innovation and Professional Change	3	20
X7 305	Evidence Informed Practice: Exploring Research Methods in Childhood Practice	3	20
X9 371	Leading People: Managing the Professional Self and Others	3	20

Fourth Year (Phase 5) (Honours)

11.122.11 All students shall undertake classes amounting to no fewer than 60 credits as follows:

Compulsory Classes		Level	Credits
X7 403	Cross Cultural Perspectives on Childhood Practice	4	20
Options: One of the following specialist routes			
X7 430	a. Pre Birth to Three	4	40
X7 423	b. Early Childhood	4	40
X7 425	c. Growing Up (late childhood)	4	40

Fourth Year (Phase 6) (Honours)

11.122.12 All students shall undertake classes amounting to no fewer than 60 credits as follows:

Compulsory Classes		Level	Credits
X7 429	Exploring Professional Values	4	20
X7 422	Dissertation	4	40

Progress

11.122.13 In any one academic year, a student shall not normally carry more than 20 outstanding credits from one academic year to the next.

11.122.14 In order to progress to the third year of the course, a student must have accumulated no fewer than 220 credits from the course curriculum including 120 credits from RPL.

11.122.15 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 340 credits from the course curriculum including 120 credits from RPL.

11.122.16 Examination and Final Assessment

The final assessment will be based on performance in the examinations, where undertaken, and in coursework at the appropriate Levels.

- Award**
- 11.122.17 **BA: Hons** In order to qualify for the award of the degree of BA with Honours in Childhood Practice, a candidate must have accumulated no fewer than 480 credits from the course curriculum (or from previous BACP pass degree) including 120 credits from RPL.
- 11.122.18 **BA:** In order to qualify for the award of the BA in Childhood Practice, a candidate must have accumulated no fewer than 360 credits from the course curriculum including 120 credits from RPL.
- 11.122.19 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Childhood Practice, a candidate must have accumulated no fewer than 240 credits from course curriculum including 120 credits from RPL.

Community Arts

BA with Honours in Community Arts

BA in Community Arts

Diploma of Higher Education in Community Arts

Certificate of Higher Education in Community Arts

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.122.21 All students are admitted in the first instance as potential Honours students.

Mode of Study

- 11.122.22 The courses are available by full-time study only.

Place of Study

- 11.122.23 The courses involve placement outwith the University campuses for which students must be a member of the PVG (Protection Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Curriculum

First Year

- 11.122.24 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
X9 134	Cultural Theory in Community Contexts	1	20
X9 135	Community Dance 1	1	20
X9 136	Community Drama 1	1	20
X9 137	Community Music 1	1	20
X9 138	Community Visual Arts 1	1	20

X9 139	Community Team Project	1	20
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Second Year

11.122.25 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
X9 258	Arts Management in Community Contexts	2	20
X9 259	Media Theory and Production	2	20
X9 260	Community Placement	2	20

Elective Class(es) 20

Optional Classes

40 credits chosen from:

X7 866	Community Dance 2	2	20
X9 261	Community Drama 2	2	20
X9 262	Community Music 2	2	20
X9 264	Community Visual Arts 2	2	20

Third Year

11.122.26 All students shall undertake classes amounting 120 credits as follows:

Compulsory Classes		Level	Credits
X9 506	Arts Inclusive Contexts	3	20
X9 507	Applied Arts Discipline 1	3	20
X9 508	Enquiry and Research Methods: Arts Contexts	3	20

Optional Classes

60 credits of which no fewer than 20 must be chosen from List A and no fewer than 20 from List B as follows:

List A

X9 509	Community Dance 3	3	20
X9 510	Community Drama 3	3	20
X9 511	Community Music 3	3	20
X9 512	Community Visual Arts 3	3	20

List B

X9 513	Arts Management and Cultural Theory 1	3	20
X9 514	Digital Media in Community Contexts	3	20
X9 515	Youth Studies and Community Empowerment	4	20

Fourth Year

11.122.27 All students shall undertake classes amounting 120 credits as follows:

Compulsory Classes		Level	Credits
X9 708	Community Arts Dissertation	4	40
X9 709	Applied Arts Discipline 2	4	20

Optional Classes

60 credits of which no fewer than 20 must be chosen from List A and no fewer than 20 from List B as follows:

List A

X9 710	Community Dance 4	4	20
X9 711	Community Drama 4	4	20
X9 713	Community Music 4	4	20
X9 714	Community Visual Arts 4	4	20

List B

CM 402	Youth Studies and Community Empowerment	4	20
X9 615	Digital Media in Community Contexts	3	20
X9 712	Arts Management and Cultural Theory 2	4	20
X7 409	Arts Infused Curriculum	4	20
X7 410	Digital Media in Arts Applications	4	20

Progress

- 11.122.28 In order to progress to the second year of the course, a student must have accumulated no fewer than 100 credits from the course curriculum, including those for the classes *X9 139 Community Team Project* and *SC 129 Cultural Theory in Community Contexts*.
- 11.122.29 In order to progress to the third year of the course, a student must have accumulated no fewer than 220 credits from the course curriculum, including those for the classes *X9 260 Community Placement*, *X9 258 Arts Management in Community Contexts*
- 11.122.30 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the course curriculum, including those for the compulsory third year classes.

Final Honours Classification

- 11.122.31 The final Honours classification will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes which are taken in the fourth year;
 - (ii) if appropriate, an oral examination.

Award

- 11.122.32 **BA with Honours:** In order to qualify for the award of the degree of BA with Honours in Community Arts, a candidate must have accumulated no fewer than 480 credits from the course curriculum.
- 11.122.33 **BA:** In order to qualify for the award of the degree of BA in Community Arts, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.122.34 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Community Arts, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.122.35 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Community Arts, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.122.36
to 11.122.40 (Numbers not used)

Community Education

BA with Honours in Community Education

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1.]

Admission

- 11.122.41 Notwithstanding Regulation 11.1.1, applicants for the BA with Honours in Community Education by part-time study will normally be employed in a post relevant to the field of study for 17.5 hours or more per week at the time of starting their course and have vocational experience which, in the opinion of the Course Director, is appropriate for entry to the degree by part-time study.

Status of the Degree

- 11.122.42 The degree is offered at Honours level only. Transfer to the BA in the Faculty of Humanities and Social Sciences may be possible at any time subject to satisfying the appropriate progress regulations.

Mode of Study

- 11.122.43 The course is available by full-time or part-time study.

Place of Study

- 11.122.44 As permitted by Regulation 11.1.7, the course requires placements outwith the University campus for which students must be a member of the PVG (Protection Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Maximum Period of Study

- 11.122.45 Notwithstanding Regulation 11.1.6, the maximum period of study for the BA with Honours in Community Education by part-time study is 7 years.

Curriculum (Full-time study)

First Year

- 11.122.46 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CM 123	Thinking Professionally	1	20
PR 104	Academic Enquiry	1	20
PR 105	Community Education and Social Thought	1	20
PR 106	Communication and Professional Interaction	1	20
PR 108	Foundations of Critical Pedagogy	1	20
Elective Classes			20

Second Year

- 11.122.47 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PR 204	Educational Groupwork	2	20
PR 205	Experiential Learning: Practicum 2	2	60
PR 206	Analysing Social Context	2	20
Elective Classe(es)			20

Third Year

11.122.48 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PR 314	Practice Research Methods	3	20
PR 315	Diversity and Difference	3	20
PR 316	Management and Community Education	3	20
PR 317	Ethical Practice	3	20
PR 318	Applied Critical Pedagogy	3	20

Optional Classes

20 credits chosen from:

PR 319	Community-based Adult Learning 1	3	20
PR 320	Community Development 1	3	20
PR 321	Youth Work 1	3	20

Fourth Year

11.122.49 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PR 417	Experiential Learning: Practicum 3	4	60
PR 418	Integrating themes in Community Education	4	20
PR 419	Planning for Change	4	20

Optional Classes

20 credits chosen as previously selected from:

PR 420	Community-based Adult Learning 2	4	20
PR 421	Community Development 2	4	20
PR 422	Youth Work 2	4	20

Curriculum (Part-time study)

11.122.50 All part-time students shall undertake an approved curriculum as follows:

Compulsory Classes		Level	Credits
PR 104	Academic Enquiry	1	20
PR 205	Experiential Learning: Practicum 2	2	60
PR 314	Practice Research Methods	3	20
PR 417	Experiential Learning: Practicum 3	4	60
PR 418	Integrating Themes in Community Education	4	20
Elective Class(es)			30

Optional classes

260 credits chosen from:

CM 101	Facilitating Community Empowerment	1	20
CM 123	Thinking Professionally	1	20
CM 235	Positivity in Community Work	2	20
PR 105	Community Education and Social Thought	1	20
PR 106	Communication and Professional Interaction	1	20
PR 108	Foundations of Critical Pedagogy	1	20
PR 204	Educational Groupwork	2	20
PR 206	Analysing Social Context	2	20
PR 315	Diversity and Difference	3	20
PR 316	Management and Community Education	3	20
PR 317	Ethical Practice	3	20
PR 318	Applied Critical Pedagogy	3	20
PR 319	Community-based Adult Learning 1*	3	20
PR 320	Community Development 1*	3	20
PR 321	Youth Work 1*	3	20
PR 419	Planning for Change	4	20
PR 420	Community-based Adult Learning 2**	4	20
PR 421	Community Development 2**	4	20
PR 422	Youth Work 2**	4	20

* only one such class may be chosen

** requires the corresponding level 3 class to have been chosen

Progress (Full-time study)

- 11.122.51 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 11.122.52 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.
- 11.122.53 In order to progress to the fourth year, a student must have accumulated 360 credits from the course curriculum.

Progress (Part-time study)

- 11.122.54 Within each year of study, a student will not normally be allowed to carry more than 20 outstanding credits from one calendar year to the next.

Final Honours Classification

- 11.122.55 The final Honours classification will normally be based on
- the first assessed attempt at compulsory and specified optional classes which are taken in the third and fourth year of the course;
 - if appropriate, an oral examination.

Award

- 11.122.56 **BA with Honours:** In order to qualify for the award of the degree of BA with Honours in Community Education, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

Transfer

11.122.57 A candidate who fails to satisfy the progress or award requirements for the degree of BA with Honours in Community Education may be transferred to the degree of BA in Faculty of Humanities and Social Sciences.

11.122.58

to

11.122.60 (Numbers not used)

Primary Education

BEd with Honours in Primary Education

BEd in Primary Education

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.122.61 All students are normally admitted in the first instance as potential Honours students. Transfer to the BA in Primary Education Studies is possible at any time.

Mode of Study

11.122.62 The courses are available by full-time study only.

Place of Study

11.122.63 The courses involves placements in schools for which students must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

First Year

11.122.64 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
X9 109	Language and Placement Learning	1	20
X9 110	Mathematics and Pedagogy	1	20
X9 111	Religious and Moral Education, Health and Well-being	1	20
X9 119	Me as a Learner	1	20
X9 120	Children as Learners	1	20
Elective Class(es)			20

Second Year

11.122.65 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
X9 230	Barriers to Learning and the Context of Schooling	2	20
X9 231	Pedagogy and Placement Learning	2	20
X9 232	Language, Literature and Literary Life in the Classroom	2	20

X9 233	Learning in Social Studies, Science and Technology	2	20
X9 234	Expressive Arts in the Curriculum	2	20
X9 235	Introduction to the Integrated Curriculum	2	20

Third Year

11.122.66 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
X9 355	Educational Values, Thinking and Inquiry	3	20
X9 356	Pedagogy & Placement Learning 3A	3	20
X9 357	Pedagogy & Placement Learning 3B	3	20
X9 358	Developing the Integrated Curriculum	3	20
X9 359	Progression in Mathematics: Theory and Practice	3	20

Optional Classes

20 credits chosen from:

X9 301	Working with Families and the Community	3	20
X9 341	Literacy Acquisition for Bilingual Learners	3	20
X9 352	Enterprise and Entrepreneurial Learning in Primary Schools	3	20
X9 360	Additional Support Needs: Preparing to Support Learning in the Primary Classroom	3	20
X9 361	Effective and Creative Use of ICT in the Primary School	3	20
X9 362	Creativity in Teaching and Learning	3	20
X9 363	Philosophy with Children	3	20
X9 399	The Education of Looked After Children	3	20
X9 xxx	Learning Through the Literacy Clinic	3	20

Fourth Year

11.122.67 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
X9 425	Pedagogy and Placement Learning 4	4	40
X9 497	Professional Project	4	20
X9 472	Contemporary Education Issues	4	20
X9 426	Developing Inclusive Practice in Numeracy and Literacy 0-14	4	20

Optional Classes

20 credits chosen from:

X9 428	Music: Learning and Wellbeing	3	20
X7 416	Social Studies	4	20
X7 411	Exploring Belief & Culture	4	20
X7 412	Exploring Children's Books: Theory and Practice	4	20
	Social Studies	4	20
X7 426	Learning and Teaching Science in the Primary School	4	20
X7 415	Pretending to Learn	4	20

X7 414	Primary Physical Education	4	20
X9 498	People, Place and Environment/Outdoor Learning	4	20

Such other classes as may be approved by the Course Director.

Progress

- 11.122.68 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum including those for the class *X9 109 Language and Placement Learning*.
- 11.122.69 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including those for the class *X9 231 Pedagogy and Placement Learning 2*.
- 11.122.70 In order to progress to the fourth year of the course, a student must normally have obtained at least 360 credits from the course curriculum, including those for the classes *X9 356 Pedagogy and Placement Learning 3A* and *X9 357 Pedagogy and Placement Learning 3B*.

Final Honours Classification

- 11.122.71 The final Honours classification will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes taken in the third year.
 - (ii) if appropriate, an oral examination.

Award

- 11.122.72 **BEd with Honours:** In order to qualify for the award of the BEd with Honours in Primary Education, a candidate must have accumulated no fewer than 480 credits from the course curriculum.
- 11.122.73 **BEd:** Notwithstanding Regulation 11.1.10, in order to qualify for the award of the BEd in Primary Education a candidate must have accumulated no fewer than 420 credits from the course curriculum including those for the classes *X9 425 Pedagogy and Placement Learning 4*, *X9 426 Developing Inclusive Practice in Numeracy and Literacy 0-14* and a class chosen from the Level 4 Options.

Transfer

- 11.122.74 A candidate who fails to satisfy the progress or award requirements for the degree of BEd with Honours in Primary Education or BEd in Primary Education may be transferred to the degree of BA in Primary Education Studies.
- 11.122.75
to 11.122.80 (Numbers not used)

Education and Social Services

BA in Education and Social Services

Diploma of Higher Education in Education and Social Services

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Admission

- 11.122.101 Admission to the course shall normally be to applicants with an HNC in
- (i) Early Education and Childcare; or
 - (ii) Health Care; or
 - (iii) Social Care; or
 - (iv) Supporting Learning Needs; or
 - (v) Occupational Therapy Support
- or equivalent and shall be deemed to have 120 credits.

Status of the Courses

- 11.122.102 The courses are offered to BA level only. All students are admitted in the first instance to the Diploma of Higher Education in Education and Social Services.

Mode of Study

- 11.122.103 The courses are available by full-time study only.

Place of Study

- 11.122.104 The second year of the course is taught at James Watt College, Greenock, Motherwell College, Motherwell and at Langside College, Glasgow. Students must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

First Year

- 11.122.105 The first year is not taught as part of the course.

Second Year

- 11.122.106 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
<i>For students studying at James Watt College</i>			
JW 250	Effective Learning and Communication (Education and Social Services)	2	10
JW 253	The Societal Context of Professional Working	2	20
JW 254	Introduction to Integrated Services	2	20
JW 255	How People Develop and Learn	2	20
JW 257	Workplace Learning and Practice 1	2	20
JW 258	Independent Study	2	10
JW 259	Being Professional: Working Collaboratively	2	20

For students studying at Langside College

LC 250	Effective Learning and Communication (Education and Social Services)	2	10
LC 251	Being Professional: Working Collaboratively	2	20
LC 253	The Societal Context of Professional Working	2	20
LC 254	Introduction to Integrated Services	2	20
LC 255	How People Develop and Learn	2	20
LC 256	Workplace Learning and Practice 1	2	20
LC 258	Independent Study	2	10

For students studying at Motherwell College

MW 260	Effective Learning and Communication (Education and Social Services)	2	10
MW 263	The Societal Context of Professional Working	2	20
MW 264	Introduction to Integrated Services	2	20
MW 265	How People Develop and Learn	2	20
MW 267	Workplace Learning and Practice 1	2	20
MW 268	Independent Study	2	10
MW 269	Being Professional: Working Collaboratively	2	20

Third Year

11.122.107 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
X9 343	Management and Leadership in Integrated Services	3	20
X9 344	Context, Policy and Joint Working	3	20
X9 345	Understanding How People Behave	3	20
X9 346	Workplace Learning and Practice 2	3	20
X9 347	Reflective Practitioner	3	20

Optional Classes

20 credits chosen from:

X9 351	Co-ordination, Partnership and Integration in Childhood Practice	3	20
X9 399	The Education of Looked After Children	3	20

Such other level 3 classes as may be approved by the Course Director.

Progress

11.122.108 In order to progress to the third year of the course, a student must normally have accumulated 240 credits from the course curriculum.

Award

11.122.109 **BA:** In order to qualify for the award of the degree of BA in Education and Social Services, a student must have accumulated no fewer than 360 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include 120 credits at Level 3.

11.122.110 **Diploma of Higher Education:** in order to qualify for the award of a Diploma of Higher Education in Education and Social Services, a student must have

accumulated no fewer than 240 credits from the course curriculum including at least 120 at Level 2 or above.

Centre for Lifelong Learning

Open Studies Certificate

Certificate of Higher Education in Lifelong Learning in Humanities
Certificate of Higher Education in Lifelong Learning in Creative Arts

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1].

Admission

11.122.111 Regulation 11.1.1 shall apply.

Mode of Study

11.122.112 The courses are available by part-time study only.

Curriculum

11.122.113 All students shall undertake classes, subject to the approval of the Course Director, within one of the following distinct pathways:

Humanities
Creative Arts

Humanities

11.122.114 All students shall undertake an approved curriculum as follows

11.122.115 Optional Classes

90 credits chosen from the curriculum of the following Open Studies Certificate pathways listed in Regulation 23.11

Cultural and Literary Studies
Applied Writing
Genealogical Studies
Language Studies

together with

30 credits chosen from the curriculum of the Open Studies Certificate and listed in Regulation 23.11

Creative Arts

11.122.116 All students shall undertake an approved curriculum as follows

11.122.117 Optional Classes

90 credits chosen from the curriculum of the following Open Studies Certificate pathways listed in Regulation 23.11

Applied Arts
Theatre Arts

together with
30 credits chosen from the curriculum of the Open Studies Certificate and listed in Regulation 23.11

Award

- 11.122.118 **Certificate of Higher Education:** In order to qualify for the award of the Certificate of Higher Education in Lifelong Learning in a named pathway the candidate must have accumulated no fewer than 120 credits, of which 90 credits must be in their chosen named pathway and 30 must have been awarded in respect of classes from the curriculum of the Open Studies Certificate.

11.122.119 to
11.122.200 (not used)

Faculty of Humanities and Social Sciences

11.123 **Faculty Courses**

Humanities and Social Sciences

BA with Honours in (Subject(s))

BA in Humanities and Social Sciences

Diploma of Higher Education in Humanities and Social Sciences

Certificate of Higher Education in Humanities and Social Sciences

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Admission

- 11.123.1 Regulation 2 shall apply.

Status of the Courses

- 11.123.2 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

- 11.123.3 The courses are available by full-time and by part-time study if so indicated. The full-time BA degree course may be taken on a part-time basis. Students may transfer, with the approval of the Vice Dean (Academic), from full-time study to part-time, and vice versa. Each year of part-time study shall normally comprise 60 credits from the classes required for full-time study.

Place of Study

- 11.123.4 Certain subjects may require study outwith the University. The degrees of students who spend all or part of an academic year at an overseas university as an accredited part of their undergraduate degree studies will be designated as BA Hons in (Subject(s)) with International Study.

Course Structure (Full-time Study)

11.123.5 At Level 1, all full-time students shall undertake a curriculum which shall normally amount to 120 credits. At the end of the first year, all students shall choose two subjects from this curriculum for further study, having obtained a pass at the required standard in the 1A and 1B classes for each subject.

11.123.6 At Level 2, students shall undertake a 120-credit curriculum consisting of primarily of two combinable Subjects, in each of which they will have gained 40 credits at Level 1. In Level 2, they will take 60 credits in one Subject + 40 credits in the other Subject + 20 credits in an interdisciplinary class chosen from a list of classes approved by the Faculty.

At Level 3, students shall undertake a 120-credit curriculum consisting of 20 credits in an interdisciplinary class chosen from a list of classes approved by the Faculty + up to 100 credits in one of their Level 2 Subjects. Any remaining balance of credits will consist of classes taken from their other Level 2 Subject.

11.123.7 All students wishing to be considered for admission to Honours should consult specific subject Honours selection criteria in choosing their second and third year curriculum as pre-requisite classes may apply from 2nd and 3rd years.

Students wishing to be considered for

- (i) a Single Honours degree must normally have gained at least 60 credits in that Subject at Level 3.
- (ii) Joint Honours degree (including Major/Minor combinations) must normally have gained at least 120 credits by the end of Level 3 in each of their intended Honours Subjects.

11.123.8 The credits for a class may count towards the credit requirements for one of the Subjects only.

With the prior approval of the Board of Study or the Board's nominee in a particular session, classes offered by the University of Glasgow may be taken in place of classes offered by the Faculty of Humanities and Social Sciences.

11.123.9 All full-time students shall undertake classes which amount to 120 credits at Level 4 which meet the specialisation requirements for their subject(s) and shall include a dissertation.

Students studying for Single Honours will gain all required 120 credits at Level 4 from one subject.

All other students will complete a curriculum consisting of EITHER

60 credits in each of two subjects, including a dissertation in one of those subjects (Joint Honours);

OR

80 credits in one subject, including a 20 credit dissertation, and 40 credits in another subject (Major-Minor).

Students studying a Joint Honours curriculum at Level 4 that includes a subject offered by another Faculty will complete their dissertation in the HaSS subject, except in the case of Human Resource Management, in which a 20 credit dissertation may be undertaken.

Only the following subjects may be studied as a Major component at Level 4: English, History, Politics and Psychology.

Subject Requirements

11.123.10

Education	See Regulations 11.120.36 – 11.120.40
English	See Regulations 11.120.41 – 11.120.45
History	See Regulations 11.120.61 – 11.120.65
Journalism and Creative Writing	See Regulations 11.120.71 – 11.120.73
Law	See Regulations 11.120.81 – 11.120.83
Modern Languages (French, Italian and Spanish)	See Regulations 11.120.91 – 11.120.96
Politics	See Regulations 11.120.101 – 11.120.105
Psychology	See Regulations 11.120.111 – 11.120.117
Economics	See Regulations 11.120.131 – 11.120.132
Hospitality and Tourism	See Regulation 11.120.141 – 11.120.142
Human Resource Management	See Regulation 11.120.151 – 11.120.152
Marketing	See Regulation 11.120.161 – 11.120.162
Mathematics	See Regulations 11.120.171 – 11.120.171

Permissible Combinations of Subjects for Pass and Honours Degrees

11.123.11

Subjects are normally available in the following combinations:

Education										
J	J	J	J	J	J	J	J	J	J	English
J	J	J	J	J	J	J	J	J	J	French
J	J	J	J	J	J	J	J	J	J	History
J	J	J	J	J	J	J	J	J	J	Italian
J	J	J	J	J	J	J	J	J	J	Journalism & Creative Writing
J	J	J	J	J	J	J	J	J	J	Law
J	J	J	J	J	J	J	J	J	J	Politics
J	J	J	J	J	J	J	J	J	J	Psychology
J	J	J	J	J	J	J	J	J	J	Spanish
										<i>Non-HaSS subjects</i>
J	P	J	J	J	J	J	J	J	J	Economics
J	J	J	J	J	J	J	J	J	J	Human Resource Management
		J		J					J	Marketing
							P	J		Mathematics
		J		J					J	Hospitality & Tourism

J Combinations which may be taken for Honours

P Combinations which may not be continued beyond Level 3

Single Honours degrees are available in the following Subjects:

English

History

Politics

Psychology

Curriculum (Full-time Study)

First Year

11.123.12 All full-time students shall undertake three pairs (ie, 1A + 1B) of classes amounting to 120 credits. No more than 40 credits of classes may be taken from List B. Students taking subjects offering only 20 credits in List B are required to take an additional 20 credit class from List A.

List A: Level 1 Classes in the Faculty of Humanities and Social Sciences

		Level	Credits
C8 105	Psychology 1A	1	20
C8 106	Psychology 1B	1	20
L2 102	Politics 1A	1	20
L2 103	Politics 1B	1	20
M9 109	BA Law 1A (Legal Methods)	1	20
M9 116	BA Law 1B (Public Law 1)	1	20
P3 100	Journalism and Creative Writing 1A	1	20
P3 101	Journalism and Creative Writing 1B	1	20
QQ 115	English 1A	1	20
QQ 116	English 1B	1	20
R1 107	French 1A	1	20
R1 108	French 1B	1	20
R1 109	Introduction to French 1A	1	20
R1 110	Introduction to French 1B	1	20
R3 108	Italian 1A	1	20
R3 109	Italian 1B	1	20
R3 110	Introduction to Italian 1A	1	20
R3 111	Introduction to Italian 1B	1	20
R4 107	Spanish 1A	1	20
R4 108	Spanish 1B	1	20
R4 109	Introduction to Spanish 1A	1	20
R4 110	Introduction to Spanish 1B	1	20
V1102	History 1A	1	20
V1103	History 1B	1	20
XXXXX	Education 1A : Year 1 Placement and Curriculum	XXXXX	
	Education 1B : Understanding Education in the 21st Century	1	20

List B: Level 1 Classes in Other Faculties

		Level	Credits
EC 111	Introduction to Economics	1	20
HR 111	Managing People	1	20
MK 111	Introduction to Marketing+	1	20
MM 101	Introduction to Calculus*	1	20
MM 102	Applications of Calculus*	1	20
SH 111	Introduction to Hospitality and Tourism Management ++	1	20

* Compulsory for students intending to take Mathematics

+ Only available in combination with a Modern Language

++ Only available in combination with a Modern Language

Second Year

11.123.13 All full-time students shall undertake classes amounting to 120 credits as follows:

All students shall take 1 x 20 or 2 x 10 credit classes from a list of interdisciplinary elective classes approved by the Faculty, including where appropriate, participation in a Vertically Integrated Project (VIP).

In addition, students will take the following credits in two of the subjects

passed at Level 1	Level	Credits
First Subject	2	60
Second Subject	2	40

Third Year

11.123.14 All full-time students shall undertake classes amounting to 120 credits.

All students shall take 1 x 20 or 2 x 10 credit classes from a list of interdisciplinary elective classes approved by the Faculty, including where appropriate, participation in a Vertically Integrated Project (VIP).

In addition, students shall undertake

100 credits in one of the subjects passed at Level 2*

OR

80 credits in one of the subjects passed at Level 2 + 20 credits in the other subject passed in Level 2+,

OR

60 credits in one subject passed at Level 2 + 40 credits in the other subject passed at Level 2++,

* May qualify a student for Single Honours in that subject

+ May qualify a student for Single Honours in the first subject.

++ May qualify a student for Single Honours in the first subject or Joint Honours in both subjects

Subjects at Levels 2 and 3

11.123.15 Humanities and Social Sciences Faculty:

Education	See Regulation 11.120.36
English	See Regulation 11.120.41
History	See Regulation 11.120.61
Journalism and Creative Writing	See Regulation 11.120.71
Law	See Regulation 11.120.81
Modern Languages: (French, Italian and Spanish)	See Regulation 11.120.91
Politics	See Regulation 11.120.101
Psychology	See Regulation 11.120.111

Other Faculties:

Economics	See Regulation 11.120.131
Hospitality and Tourism	See Regulation 11.120.141
Human Resource Management	See Regulation 11.120.151
Marketing	See Regulation 11.120.161
Mathematics	See Regulation 11.120.171

Progress

11.123.16 A student who fails a class which is not a compulsory requirement for progression may be permitted to take an appropriate substitute class.

11.123.17 A student who has been excluded from the degree examinations in a class in any one year, but has otherwise satisfied the relevant progress regulations, shall normally be required to re-attend the class.

Progress (Full-time Study)

11.123.18 In order to progress to Level 2, a student must have accumulated at least 100 credits including the credits for both of the Level 1 classes in two subjects combinable at Level 2.

11.123.19 In order to progress to Level 3, a student must have accumulated at least 220 credits and have satisfied the requirements of their chosen Subjects.

11.123.20 In order to progress to Level 4, a student must normally have accumulated no fewer than 360 credits and have satisfied the Honours entry requirements in their chosen Subject(s).

Progress (Part-time Study)

11.123.21 In any year of study, students must normally pass all classes taken.

11.123.22 Progress regulations as defined for full-time study shall be applicable normally after periods of 120 credits.

Final Honours Classification

11.123.23 On successful completion of Level 4, a candidate will be awarded the credits corresponding to the classes taken.

11.123.24 The final Honours classification will normally be based on

- (i) the first assessed attempt at compulsory and specified optional classes taken in the Honours year and, as appropriate, in the third year;
- (ii) if appropriate, an oral examination.

Award

- 11.123.25 **BA with Honours:** In order to qualify for the award of the BA with Honours in a specified subject or subjects, a candidate must have accumulated no fewer than 480 credits.
- 11.123.26 *For Modern Language students only: **Distinction in the Spoken Language:** A candidate who qualifies for the award of the degree of BA with Honours in a Modern Language with another subject and who has, according to prescribed criteria and in the opinion of the relevant Board of Examiners, attained a high level of performance in the oral examination may be awarded the Honours degree with Distinction in the Spoken Language.*
- 11.123.27 **BA:** In order to qualify for the award of the BA in Humanities and Social Sciences, a candidate must have accumulated no fewer than 360 credits.
- 11.123.28 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Humanities and Social Sciences, a candidate must have accumulated no fewer than 240 credits.
- 11.123.29 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Humanities and Social Sciences, a candidate must have accumulated no fewer than 120 credits.
- 11.123.30 to 11.123.35 (Numbers not used)

Subjects and Honours Requirements

Specialisation in Education

Place of Study

- 11.123.36 The course involves placements in schools for which a student must be a member of the PVG (Protecting Vulnerable Groups) Scheme. If they are already a member they must apply for an update.

Subject Requirements

- 11.123.37 Students taking Education as a Subject shall undertake a curriculum in Education as follows:

Compulsory Classes

XX XXX	Education 1A: Year 1 Placement and Curriculum	1	20
XX XXX	Education 1B: Understanding Education in the 21 st Century	1	20
XX XXX	Learners and Learning	2	20
XX XXX	Informal Education	2	20
XX XXX	History and Philosophy of Education	3	20
XX XXX	Children and Childhood	3	20

Optional Classes

XX XXX	Social Pedagogy with Adults	3	20
XX XXX	Philosophy with Children and Communities	3	10

XX XXX	Living in a Digital Age	3	10
XX XXX	Understanding and responding to SEBD in Children and Young People	3	10

and any other classes that may be offered to Education students at Levels 2 and 3.

Joint Honours Curriculum in Education and another Subject

11.123.38 All students shall undertake a curriculum in Education as follows:

Optional Classes

60 credits chosen from

XXXXX	Policy and Politics in Education	4	20
XXXXX	Social Issues in Education	4	20
XXXXX	Social Research Methods	4	10

and a minimum of 10 credits from any other classes that may be offered to Education students at Level 4.

or

40 credits chosen from the list of optional classes above

and

		Level	Credits
XX XXX	Dissertation in Education	4	20

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in Education with another Subject

11.123.39 All students shall undertake a curriculum in Education as follows:

Optional Classes

40 credits chosen from the list of optional classes in Regulation 11.120.38

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.40 unused

Specialisation in English

Subject Requirements

11.123.41 Students taking English shall undertake a curriculum in English as follows:

Compulsory Classes

QQ 264	Renaissance Literature	2	20
QQ 266	Enlightenment to Romanticism	2	20
QQ 607	Victorian Literature	3	20
QQ 608	Twentieth Century Literature	3	20

Optional Classes

20 credits chosen from:

ES 734	Postcolonial Literatures	3	20
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P3 625	Literary Journalism	3	20
QQ 265	Literature, Criticism, Theory	2	20
QQ 302	Order and Nature in Renaissance Writing	3	20
QQ 303	Labouring-Class Poetry in the Long Eighteenth Century	3	20
QQ 304	Sin in Renaissance Drama	3	20
QQ 305	Arthurian Legend from Monmouth to Monty Python	3	20
QQ 607	Victorian Literature	3	20
QQ 608	Twentieth Century Literature	3	20
QQ 609	America in the 1920s	3	20
QQ 610	Style	3	20
QQ 611	Shakespeare: From Comedy to History Play	3	20
QQ 612	The Sexed Self: Gender, Sexuality, Autobiography	3	20
QQ 613	Scottish Literature: 1770-1914	3	20
QQ 614	Meaning in Literature	3	20
QQ 615	Language and Society	3	20
QQ 616	The Glasgow Novel	3	20
QQ 617	Literature in the First World War	3	20
QQ 618	Detective Fiction	3	20
QQ 622	Children's Literature	3	20
QQ 623	Reading Poetry	3	20
QQ 624	Journalism and Popular Culture	3	20
QQ 626	Directing in the Theatre	3	20
QQ 627	From Greek Theatre to the National Theatre of Scotland	3	20
QQ 628	20th Century Scottish Drama	3	20

Single Honours Curriculum in English

11.123.42 All students shall undertake a curriculum in English as follows:

Compulsory Class	Level	Credits
QQ 701 Dissertation in English	4	20
Optional Classes		
P3 724 The Journalism of War	4	20
P3 728 Ethical Issues in Journalism	4	20
QQ 403 Animals and the Writing of Fiction	4	20
QQ 404 Women Writing Revolution	4	20
QQ 405 Introduction to Digital Humanities	4	20
QQ 406 Global Modernisms	4	20
QQ 702 Journeys and Travel Writing	4	20
QQ 703 Time Represented and Experienced	4	20
QQ 704 The Sound of Poetry	4	20
QQ 707 Shakespeare: From Tragedy to Tragicomedy	4	20
QQ 708 Shakespeare and Language	4	20
QQ 709 Screen Adaptation	4	20
QQ 710 Scottish Literary Modernism	4	20

QQ 711	Oral Narratives and Fairytales	4	20
QQ 712	The Nineteen Thirties: Literature and Culture	4	20
QQ 713	Language and Media	4	20
QQ 714	Victorian Gothic	4	20
QQ 715	An Introduction to Gay and Lesbian Literature	4	20
QQ 716	Experimental Literatures	4	20
QQ 717	La Belle Epoque: Edwardian Literature and Culture, 1900-1914	4	20
QQ 718	Transatlantic Comic Writing 1900-1950	4	20
QQ 720	Philosophy and Science in the Enlightenment	4	20
QQ 721	Vladimir Nabokov – Two Great Novels	4	20
QQ 722	Cultures of Transgression	4	20
QQ 723	Media and Literary Publics	4	20
QQ 725	The Dramatic Work in Performance	4	20
QQ 726	Literary Snobbery	4	20
QQ 727	Present-day Victorians	4	20
QQ 729	Studio Theatre Performance	4	20

Major Honours Curriculum in English with another Subject

11.123.43 All students shall undertake a curriculum in English as follows:

Compulsory Class	Level	Credits
QQ 701 Dissertation in English	4	20

Optional Classes

60 credits chosen from the list of optional classes in Regulation 11.120.42

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in English and another Subject

11.123.44 All students shall undertake a curriculum in English as follows:

Optional Classes	Level	Credits
Either		
60 credits chosen from the list of optional classes in Regulation 11.120.42		
Or		
QQ 701 Dissertation in English	4	20
and 40 credits chosen from Regulation 11.120.42		

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in English with another Subject

11.123.45 All students shall undertake a curriculum in English as follows:

Optional Classes

40 credits chosen from the list of optional classes in Regulation 11.120.42

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.46

to 11.120.60 (Numbers not used)

Specialisation in History

Subject Requirements

11.123.61 Students taking History shall undertake a curriculum as follows:

Compulsory Class	Level	Credits
V1 326 Historiography and Research Methods	3	20
Optional Classes		
V1 202 Scotland 1603-1707	2	20
V1 211 Aristocracy to Democracy: Politics in Britain, 1815-1918	2	20
V1 212 Cultures of Empire: The British Experience	2	20
V1 213 Disease and Society: An Introduction to the History of Medicine	2	20
V1 214 History of Scotland, 1700-1832	2	20
V1 215 History of Scotland, 1832-1914	2	20
V1 216 History of the United States of America since 1877	2	20
V1 217 Modern Europe	2	20
V1 218 Science, Technology and the Making of the Modern World	2	20
V1 219 Sixteenth Century Europe, 1500-1600	2	20
V1 220 Scotland 1469-1603: Renaissance and Reformation	2	20
V1 303 France at War 1870-1962	3	20
V1 304 The American West	3	20
V1 308 Scotland's Highland Problem: Crown-Clan Relations in the Sixteenth Century	3	20
V1 320 Bombers and Mash: Britain and the Home Front, 1939 – 1945	3	20
V1 322 Cold War Europe 1945-1991	3	20
V1 323 Communism in Practice: the Case of Czechoslovakia	3	20
V1 324 Dangerous Drugs and Magic Bullets: Social History of Medicines, 1800 – 2000	3	20
V1 325 From Samurai to Entrepreneurs: The Birth of Modern Japan	3	20
V1 327 History of Irish Society 1660-1850	3	20
V1 328 Jacobitism 1688-1788	3	20
V1 330 Propaganda and War in the Twentieth Century	3	20
V1 332 Scotland and the Americas in the Seventeenth Century	3	20
V1 333 Scotland's 'Highland Problem'?: Crown-Clan	3	20
V1 334 Scottish Society since 1914	3	20
V1 335 Slavery in World History	3	20
V1 336 Society and Politics in Colonial India: 1880s-1947	3	20

V1 337	The Covenanters and the British Civil Wars, c1637-51	3	20
V1 338	The Victorian Mind	3	20
V1 377	Youth in Post-war Britain 3 20	3	20
V1 389	Cold War Europe 1945-1991	3	20
V1 390	Sub-Saharan Africa and British Imperialism since 1800 3	3	20
V1 391	Empires and India: South Asia 1526-1857 3	3	20
V1 394	Madness & Society: Ancient to Present	3	20

Single Honours Curriculum in History

11.123.62 All students shall undertake a curriculum in History as follows:

Compulsory Class	Level	Credits
V1 913 Dissertation in History	4	20

Optional Classes

100 credits chosen from the lists below including at least 40 credits from List A and 60 credits from List B

List A: Special Subjects (classes must be taken in pairs as indicated)

V1 409	The Scramble for the Middle East, Arab Nationalism, Zionism and European Colonial Powers, 1914-1939 1	4	20
and			
V1 410	The Scramble for the Middle East, Arab Nationalism, Zionism and European Colonial Powers, 1914-1939 2	4	20
V1 412	Becoming British? Scotland, England and Ireland, in the Sixteenth Century 1	4	20
and			
V1 413	Becoming British? Scotland, England and Ireland, In the Sixteenth Century 2	4	20
V1 425	Scandals and Ethics 1: The History of Pharmacy	4	20
and			
V1 426	Scandals and Ethics 2: The History of Pharmaceuticals	4	20
V1 427	Britain, France and European Unity 1, 1945-1956	4	20
and			
V1 428	Britain, France and European Unity 2, 1957-1973	4	20
V1 429	The 1707 Act of Union in a British and European Context 1	4	20
and			
V1 430	The 1707 Act of Union in a British and European		

	Context 2	4	20
V1 435	The United States between the Wars: 1 World War One and the Prosperity Decade	4	20
and			
V1 436	The United States Between the Wars: 2 The Great Depression and the New Deal	4	20
V1 438	Science, Medicine and European Imperialism 1	4	20
and			
V1 439	Science, Medicine and European Imperialism 2	4	20
V1 442	Securing the Union: Scotland and Empire, 1707-53 1	4	20
and			
V1 443	Securing the Union: Scotland and Empire 1707-53 2	4	20
V1 444	The Price of Health Care: The UK, Canada and USA, since 1800: 1	4	20
and			
V1 445	The Price of Health Care: The UK, Canada and USA, since 1800: 2	4	20
V1 446	Scotland and Britain 1: The Development of Scottish and British National Identities in Scotland from c1707 to c1850	4	20
and			
V1 447	Scotland and Britain 2: The Development of Scottish and British National Identities in Scotland since c1850	4	20
V1 915	Twentieth Century Czechoslovakia, 1918-1948 1	4	20
and			
V1 916	Twentieth Century Czechoslovakia, 1948-1993 2	4	20
V1 941	Imperialism, Politics and Society in Britain, 1870–1914 1	4	20
and			
V1 942	Imperialism, Politics and Society in Britain, 1870–1914 2	4	20
V1 944	Social History of Work, 1880–1951: 1 Perspectives	4	20
and			
V1 945	Social History of Work, 1880–1951: 2 Primary Sources	4	20
V1 951	Madness in the Modern World 1	4	20
and			

V1 952	Madness in the Modern World 2	4	20
List B: Honours Classes*			
V1 404	France at War, 1870-1962	4	20
V1 405	Scottish Society since 1914	4	20
V1 406	Cold War Europe 1945-1991	4	20
V1 407	Bombers and Mash: Britain and the Home Front, 1939 – 1945	4	20
V1 408	Woman and the Family in Early Modern Scotland	4	20
V1 416	The Patriarchal Family in Early Modern Scotland	4	20
V1 419	Scotland's 'Highland Problem?': Crown-Clan Relations in the Sixteenth Century	4	20
V1 420	Living under a Dictator: Politics and Society in Fascist Italy	4	20
V1 422	The Victorian Mind	4	20
V1 423	Scotland and the Americas in the Seventeenth Century	4	20
V1 424	The Covenanters and the British Civil Wars, c1637-51	4	20
V1 431	Communism in Practice: the Case of Czechoslovakia	4	20
V1 432	Meiji Japan: Samurai to Entrepreneurs	4	20
V1 433	Jacobitism	4	20
V1 441	Youth in Post-war Britain	4	20
V1 449	The American West	4	20
V1 450	Reformation and Counter-Reformation in Central Europe (c1500-c1600)	4	20
V1 452	Society and Politics in Colonial India: 1880s-1947	4	20
V1 456	Oral History: Theory and Practice	4	20
V1 457	Madness & Society: Ancient to Present	4	20
V1 479	Slavery in World History	4	20
V1 482	Irish Society, c1700-1860	4	20
V1 491	British Politics since 1918	4	20
V1 496	Science and Religion in Victorian England	4	20
V1 497	Sub-Saharan Africa and British Imperialism since 1800	4	20
V1 498	Empires and India: South Asia 1526-1857	4	20
V1 499	Work and Community Placement	4	20
V1 946	Dangerous Drugs and Magic Bullets: Social History of Medicines, 1800 – 2000	4	20
V1 950	British Foreign Policy in the 19th Century	4	20
V1 958	Propaganda and War in the Twentieth Century	4	20

* *Some restrictions apply on combinations of classes in this list with those in List A - Special Subjects.*

Major Honours Curriculum in History with another Subject

11.123.63

All students shall undertake a curriculum in History as follows:

Compulsory Class	Level	Credits
V1 913 Dissertation in History	4	20

Optional Classes

40 credits chosen from List A in Regulation 11.120.62 and 20 credits chosen from List B in Regulation 11.120.62

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in History and another Subject

11.123.64 All students shall undertake a curriculum in History as follows:

Optional Classes

40 credits chosen from List A in Regulation 11.120.62

and either

20 credits chosen from List B in Regulation 11.120.62

or

V1 913	Dissertation in History	4	20
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The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in History with another Subject

11.123.65 All students shall undertake a curriculum in History as follows:

Optional Classes

40 credits chosen from List B in Regulation 11.120.62

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.66

to 11.123.70 (Numbers not used)

Specialisation in Journalism and Creative Writing

Subject Requirements

11.123.71 Students taking Journalism and Creative Writing as a Subject shall undertake a curriculum in Journalism and Creative Writing as follows:

Compulsory Classes		Level	Credits
P3 100	Journalism and Creative Writing 1A	1	20
P3 101	Journalism and Creative Writing 1B	1	20
P3 200	Creative Writing 2	2	20
P3 201	Journalism 2	2	20
P3 301	Journalism 3	3	20
P3 305	Creative Writing 3	3	20
Optional classes			
P3 202	Journalism and Creative Writing 2	2	20
P3 302	Journalism and Creative Writing 3	3	20

Joint Honours Curriculum in Journalism and Creative Writing and another Subject

11.123.72 All students shall undertake a curriculum in Journalism and Creative Writing as follows:

Optional Classes		Level	Credits
Either 60 credits chosen from			
P3 400	Journalism and Politics	4	20
P3 403	Journalism Portfolio	4	20
P3 408	Creative Writing Portfolio	4	20
P3 410	New Narratives	4	20
P3 724	The Journalism of War	4	20
P3 728	Ethical Issues in Journalism	4	20
QQ 723	Media and Literary Publics	4	20

or
40 credits chosen from the list of optional classes above
and

P3 404	Dissertation in Journalism	4	20
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or
40 credits chosen from the list of optional classes above
and

P3 409	Dissertation in Creative Writing	4	20
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The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in Journalism and Creative Writing with another Subject

11.123.73 All students shall undertake a curriculum in Journalism and Creative Writing as follows:

Optional Classes
40 credits chosen from List of optional classes in Regulation 11.120.72

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.74
to 11.123.80 (Numbers not used)

**Specialisation in Law
Subject Requirements**

11.123.81 Students taking Law as a Subject shall undertake a curriculum in Law as follows:

Optional Classes
120 credits chosen from:

M9 111	Criminal Law *	1	20
M9 112	Voluntary Obligations: Contract and Promise*	1	20
M9 113	Law and Society *	1	20
M9 115	Legal Process *	1	20
M9 207	Public Law 2	2	20
M9 208	Domestic Relations	2	20
M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20
M9 212	European Union Law	2	20
M9 305	Law, Film and Popular Culture	3	20
M9 307	Crime and Punishment	3	20
M9 308	Human Rights Law	3	20
M9 309	Employment Law	3	20
M9 310	Planning Law	3	20
M9 311	Banking Law and Finance	3	20
M9 312	Legal Theory	3	20
M9 313	Housing Law	3	20
M9 314	Intellectual Property Law	3	20
M9 352	Internet Law	3	20
M9 317	Public International Law	3	20
M9 318	Competition Law	3	20
M9 319	Discrimination Law	3	20
M9 338	Local Government Law	3	20

* *Students may select a maximum of 20 credits of Level 1 classes.*

Joint Honours Curriculum in Law and another Subject

11.123.82 All students shall undertake a curriculum in Law as follows:

Optional Classes

60 credits chosen from:

M9 404	Issues in Intellectual Property Law	4	20
M9 407	Law, Persons and Property	4	20
M9 408	European Union Law	4	20
M9 409	Criminology	4	20
M9 410	Public International Law	4	20
M9 411	Labour Law	4	20
M9 412	Law of Business Associations	4	20
M9 414	Mediation	4	20
M9 417	Legal Aspects of International Trade	4	20
M9 418	Law of Competition	4	20
M9 419	Criminal Law	4	20
M9 420	Legal Profession	4	20
M9 423	Social and Welfare Law	4	20
M9 426	Computer Law	4	20
M9 427	Legal Theory	4	20
M9 428	Legislation	4	20
M9 433	Constitutional Law	4	20
M9 446	Environmental Law	4	20
M9 452	Family Law	4	20
M9 456	Law, Justice and Society	4	20

Or

		Level	Credits
M9 4XX	Dissertation in Law	4	20

and 40 credits chosen from the list of optional classes in Regulation 11.120.81

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in Law with another Subject

11.123.83 All students shall undertake a curriculum in Law as follows:

Optional Classes

40 credits chosen from the list of optional classes in Regulation 11.120.81

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.84

to 11.123.90 (Numbers not used)

Specialisation in Modern Languages

Subject Requirements

11.123.91 Students taking a Modern Language as a Subject must normally have obtained the credits from the corresponding Level 1 class in Regulation 11.120.11. Before entering a Level 3 language class, students must normally have obtained the credits from the corresponding Level 2 language class.

French

Compulsory Classes		Level	Credits
R1 203	French Language 2A	2	20
R1 204	French Language 2B	2	20
R1 305	French Language 3A	3	20
R1 306	French Language 3B	3	20

Optional Classes

20 credits chosen from list A below:

Italian

Compulsory Classes		Level	Credits
R3 203	Italian Language 2A	2	20
R3 204	Italian Language 2B	2	20
R3 305	Italian Language 3A	3	20
R3 306	Italian Language 3B	3	20

Optional Classes

20 credits chosen from list A below

Spanish

Compulsory Classes		Level	Credits
R4 206	Spanish Language 2A	2	20
R4 207	Spanish Language 2B	2	20
R4 308	Spanish Language 3A	3	20
R4 309	Spanish Language 3B	3	20

Optional Classes
20 credits chosen from list A below:

List A - Optional Classes

		Level	Credits
<i>French</i>			
R1 210	Dealing with Difference in France and Francophone World	2	20
R1 310	Freedom and Identity in France and the Francophone World	3	20
<i>Italian</i>			
R3 200	Modern Italy – State, Culture and Society	2	20
R3 374	Italian Stage and Screen	3	20
<i>Spanish</i>			
R4 200	Independence and Isolation in Spain and Latin America	2	20
R4 373	The Struggle for Modernity in Spain and Latin America	3	20

Admission to Joint Honours in a Modern Language and another subject

11.123.92 All students must have met the requirements of Regulation 11.120.22. For admission to Joint Honours, students must have satisfied the Subject requirement in the language taken.

Before admission to Honours, students are normally required to spend an academic year in residence in a country where the language is spoken, subject to the approval of the Head of School.

Admission to Minor Honours in a Modern Language

11.123.93 All students must meet the requirements of Regulation 11.120.22. For admission to Honours with a Modern Language as the Minor subject, students must have passed 40 Level 2 Language credits and 40 Level 3 Language credits in the Modern Language.

Before admission to Honours, students are normally required to spend an academic year in residence in a country where the language is spoken, subject to the approval of the Head of School.

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in a Modern Language and another Subject

11.123.94 All students shall undertake a curriculum in a Modern Language as follows:

French

Compulsory Classes

R1 502	French (Language) A	4	10
R1 503	French (Language) B	4	10
R1 505	French (Language) C	4	10
R1 506	French Studies 4 (Core)	4	10

Optional Classes

Either

R1 498	Dissertation in French	4	20
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Or

20 credits chosen from:

R1 402	The Occupation and its Portrayal in French Films	4	10
R1 408	France since 1945	4	10

Italian

Compulsory Classes

R3 531	Italian (Language) A	4	10
R3 532	Italian (Language) B	4	10
R3 533	Italian (Language) C	4	10
R3 535	Italian Resistance Culture	4	10

Optional Classes

Either

R3 498	Dissertation in Italian	4	20
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Or

20 credits chosen from:

R3 534	Nineteenth and Twentieth Century Novelists	4	10
R3 536	The Theatre of the Eighteenth Century	4	10

Spanish

Compulsory Classes

R4 551	Spanish (Language) A	4	10
R4 552	Spanish (Language) B	4	10
R4 553	Spanish (Language) C	4	10
R4 555	Spanish and Latin American Studies: Essays	4	10

Optional Classes

Either

R4 498	Dissertation in Spanish	4	20
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Or

20 credits chosen from:

R4 403	Women Writing and Women Written	4	10
R4 476	Sociolinguistics of Spanish	4	10
R4 479	Spain Since Franco	4	10
R4 526	The Latin American Short Story	4	10

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in a Modern Language with another Subject

11.123.95 All students shall undertake a curriculum in the Modern Language as follows:

French Minor

Compulsory Classes		Level	Credits
R1 502	French (Language) A	4	10
R1 503	French (Language) B	4	10
R1 505	French (Language) C	4	10
R1 506	French Studies 4 (Core)	4	10

Italian Minor

Compulsory Classes			
R3 531	Italian (Language) A	4	10
R3 532	Italian (Language) B	4	10
R3 533	Italian (Language) C	4	10
R3 535	Italian Resistance Culture	4	10

Spanish Minor

Compulsory Classes			
R4 533	Spanish (Language) C	4	10
R4 551	Spanish (Language) A	4	10
R4 552	Spanish (Language) B	4	10
R4 555	Spanish and Latin American Studies: Essays	4	10

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Honours Curriculum in Modern Languages with a Business Subject

11.123.96 All students shall undertake a curriculum in both Modern Languages as follows:

French

Compulsory Classes		Level	Credits
R1 502	French (Language) A	4	10
R1 503	French (Language) B	4	10
R1 505	French (Language) C	4	10
R1 506	French Studies 4 (Core)	4	10

Italian

Compulsory Classes			
R3 531	Italian (Language) A	4	10
R3 532	Italian (Language) B	4	10
R3 533	Italian (Language) C	4	10
R3 535	Italian Resistance Culture	4	10

Spanish

Compulsory Classes			
R4 551	Spanish (Language) A	4	10

R4 552	Spanish (Language) B	4	10
R4 553	Spanish (Language) C	4	10
R4 555	Spanish and Latin American Studies: Essays	4	10

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.97 to

11.123.100 (Numbers not used)

Specialisation in Politics

Subject Requirements

11.123.101 All students taking Politics as a Subject shall undertake a 2nd Year curriculum in Politics as follows:

Up to 60 credits chosen from the following optional classes:

Optional Classes

L2 201	International Relations and Global Politics	2	20
L2 202	Contemporary British Governance	2	20
L2 203	Modern Political Thought	2	20

All students shall undertake a 3rd Year curriculum in Politics as follows:

Up to 40 credits chosen from the following optional classes and the compulsory class:

Compulsory Class	Level	Credits
L2 305* Research Methods for Political Scientists	3	20

Optional classes

L2 303	The Politics of European Integration	3	20
L2 304	Quantitative Methods for Social Research	3	20
L2 306	Elections and Voting in Britain	3	20
L2 307	Chinese Politics	3	20
L2 308	European Politics	3	20
L2 309	American Politics	3	20
L2 310	Scottish Politics	3	20
L2 311	Local Politics	3	20
L2 312	War, Terrorism and Conflict	3	20

* *Students must have taken the class Research Methods for Political Scientists before proceeding to Quantitative Methods for Social Research*

Single Honours Curriculum in Politics

11.123.102 All students shall undertake a curriculum in Politics as follows:

Compulsory Class	Level	Credits
L2 499 Dissertation in Politics	4	20

Optional Classes

100 credits chosen from:

L2 408	Constitutional Change and Development in the United Kingdom	4	20
L2 410	Political Parties: Background to Policy Making	4	20
L2 411	Comparative Politics	4	20
L2 412	Green Politics	4	20
L2 413	Political Behaviour	4	20
L2 415	The European Policy Process	4	20
L2 417	Perspectives on British Governance	4	20
L2 418	Territorial Politics in Comparative Perspective	4	20
L2 419	Territorial Politics in the UK	4	20
L2 421	Feminism and Politics	4	20
L2 422	International Relations Theory in a Global Age: Rethinking the Key Concepts	4	20
L2 423	Difference and Democracy	4	20
L2 424	The Welfare State in Comparative Policy	4	20
L2 426	International Security: Concepts and Issues	4	20
L2 427	Transforming Democracies? Representation and Participation	4	20
L2 428	Crises, Disasters and Public Policy	4	20
L2 429	Human Relations in International Relations	4	20

Major Honours Curriculum in Politics with another Subject

11.123.103 All students shall undertake a curriculum in Politics as follows:

Compulsory Class	Level	Credits
L2 499 Dissertation in Politics	4	20

and 60 credits chosen from the list of optional classes in Regulation 11.120.102.

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Politics and another Subject

11.123.104 All students shall undertake a curriculum in Politics as follows:

Optional Classes
either
60 credits chosen from the list of optional classes in Regulation 11.120.102
or

	Level	Credits
L2 499 Dissertation in Politics	4	20

and 40 credits chosen from the list of optional classes in Regulation 11.120.102.

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Minor Honours Curriculum in Politics with another Subject

11.123.105 All students shall undertake a curriculum in Politics as follows:

Optional Classes

40 credits chosen from the list of classes in Regulation 11.120.102

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.106

to

11.123.110 (Numbers not used)

Specialisation in Psychology

11.123.111 Students taking any class in Psychology are normally required to attend and perform satisfactorily in the practical and/or statistical work appropriate to their year of study.

Subject Requirements

11.123.112 Students taking Psychology as a Subject shall undertake a curriculum in Psychology as follows:

Optional Classes

120 credits chosen from:

C8 201	Cognition and Neuropsychology	2	20
C8 202	Social and Health Psychology	2	20
C8 203	Introduction to Research Design and Analysis	2	20
C8 302	Research Methods in Psychology	3	20
C8 303	Individual Differences	3	20
C8 304	Cognition	3	20
C8 305	Development	3	20
C8 306	Psychobiology	3	20
C8 307	Social Psychology	3	20

Single Honours Curriculum in Psychology

11.123.113 All students shall undertake a curriculum in Psychology as follows:

Compulsory Classes

		Level	Credits
C8 417	Conceptual and Historical Issues in Psychology	4	20
C8 498	Dissertation in Psychology	4	20

Optional Classes

80 credits chosen from:

C8 403	Psychoanalytic Personality Psychology	4	20
C8 409	Forensic Psychology	4	20
C8 410	Human Performance	4	20
C8 411	Physiological Psychology	4	20
C8 412	Psychology and Education	4	20
C8 413	Qualitative Methodologies in Practice	4	20
C8 415	Social Development	4	20
C8 416	Artificial Intelligence	4	20
C8 430	Clinical Aspects of Memory	4	20
C8 432	Health Psychology	4	20

C8 445	Practical Aspects of Memory	4	20
41 402	Advanced Organisational Behaviour	4	20

Major Honours Curriculum in Psychology with another Subject (except Mathematics)

11.123.114 All students shall undertake a curriculum in Psychology as follows:

Compulsory Classes		Level	Credits
C8 498	Dissertation in Psychology	4	20
Optional Classes			
60 credits chosen from			
C8 403	Psychoanalytic Personality Psychology	4	20
C8 409	Forensic Psychology	4	20
C8 410	Human Performance	4	20
C8 411	Physiological Psychology	4	20
C8 412	Psychology and Education	4	20
C8 413	Qualitative Methodologies in Practice	4	20
C8 415	Social Development	4	20
C8 416	Artificial Intelligence	4	20
C8 417	Conceptual and Historical Issues in Psychology	4	20
C8 430	Clinical Aspects of Memory	4	20
C8 432	Health Psychology	4	20
C8 445	Practical Aspects of Memory	4	20
41 402	Advanced Organisational Behaviour	4	20

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Psychology and another Subject (except Mathematics)

11.123.115 All students shall undertake a curriculum in Psychology as follows:

Optional Classes			
60 credits chosen from the list of optional classes in Regulation 11.120.113			
or			
C8 498	Dissertation in Psychology	4	20
and 40 credits chosen from the list of optional classes in Regulation 11.120.114.			

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

Joint Honours Curriculum in Psychology and Mathematics

11.123.116 All students shall undertake a curriculum in Psychology and Mathematics as follows

Compulsory Classes		Level	Credits
C8 498	Dissertation in Psychology	4	20

Optional Classes

40 credits in Psychology chosen from the list of optional classes in Regulation 11.120.114 and 60 credits in Mathematics chosen from the list of optional classes in Regulation 11.120.172.

Minor Honours Curriculum in Psychology with another Subject (except Mathematics)

11.123.117 All students shall undertake a curriculum in Psychology as follows:

Optional Classes

40 credits chosen from the list of optional classes in Regulation 11.120.114

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.118

to

11.123.130 (Numbers not used)

Specialisation in Economics

Subject Requirements

11.123.131 Students taking Economics as a Subject shall undertake a curriculum in Economics as follows:

Compulsory Classes

	Level	Credits
EC 207 Microeconomics 2	2	20
EC 208 Macroeconomics 2	2	20
EC 307 Microeconomics 3	3	20
EC 308 Macroeconomics 3	3	20

Optional Classes

40 credits chosen from:

EC 209 Economics of Firms and Industries	2	20
EC 210 International Trade and Development	2	20
EC 311 Introduction to Econometrics	3	20

Joint Honours Curriculum in a Humanities and Social Sciences Subject and Economics

11.123.132 All students shall undertake a curriculum as follows:

Compulsory Classes

	Level	Credits
Either		
EC 403 Microeconomics 4	4	20
or		
EC 404 Macroeconomics 4	4	20

Optional Classes

40 credits chosen from the following list of optional classes: EC412 Industrial Economics 4 20

EC413 Applied Econometrics	4	20
EC414 Financial Development and Economic Growth	4	20

EC415	Behavioural Economics	4	20
EC416	Natural Resource, Environmental & Energy Economics	4	20
EC419	Economics Dissertation	4	20

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.133

to 11.123.140 (Numbers not used)

Specialisation in Hospitality and Tourism

Subject Requirements

11.123.141 Students taking Hospitality and Tourism as a Subject shall undertake a curriculum in Hospitality and Tourism as follows:

Compulsory Classes		Level	Credits
SH 215	Destination Positioning and Management	2	20
SH 221	Service Encounter Management	2	20
SH 320	Destinational Fieldwork: Regeneration and Sustainability	3	20
SH 322	Hospitality and Tourism Industry Placement	3	20
SH 325	Events Management	3	20

Optional Classes

20 credits chosen from:

Z1 211	New Venture Creation	2	20
Z1 212	Introduction to Business Start-up	2	20
Z1 213	Creativity and Opportunity Recognition	2	20

Joint Honours Curriculum in a Modern Language and Hospitality and Tourism

11.123.142 All students shall undertake a curriculum in Hospitality and Tourism as follows:

Compulsory Class		Level	Credits
MG 423	Hospitality and Tourism Analysis: Case Studies and Case Histories	4	20

Optional Classes

40 credits chosen from:

SH 424	Being an Ethical Manager	4	20
MG 402	Management, Enterprise and the Rise of the Global Economy	4	20
MG 418	Strategy and Leadership	4	20
SH 4XX	HTM Dissertation	4	20

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.143

to

11.123.150 (Numbers not used)

Specialisation in Human Resource Management

Subject Requirements

11.123.151 Students taking Human Resource Management as a Subject shall undertake a curriculum in Human Resource Management as follows:

Compulsory Classes		Level	Credits
HR 201	Managing Equality and Diversity	2/3	20
HR 202	Human Resource Development	2/3	20
HR 204	Work and Organisational Psychology	2	20
HR 205	Work Psychology for HRM	2	20
HR 300	Work, Employment and Society	3	20
HR 301	Employment Relations	3	20

Joint Honours Curriculum in a Humanities and Social Sciences Subject and Human Resource Management

11.123.152 All students shall undertake a curriculum in Human Resource Management as follows:

Optional Classes

60 credits chosen from:

41 402	Advanced Organisational Behaviour	4	20
41 433	Human Resources in the Global Economy	4	20
HR 402	Perspectives on Work and Employment	4	20
HR 408	HRM and Employment Relations in Public Services	4	20
HR 409	HRM Dissertation (HaSS)	4	20

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.153

to

11.123.160 (Numbers not used)

Specialisation in Marketing

Subject Requirements

11.123.161 Students taking Marketing as a Subject shall undertake a curriculum as follows:

Compulsory Classes		Level	Credits
MK 206	Consumer Behaviour	2	20
MK 207	Marketing Research	2	20
MK 317	Marketing Communications	3	20
MK 318	Strategic Marketing	3	20

Optional Classes

40 credits chosen from:

MK 320	Management of Sales Operations	2	20
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MK 324	Retail Management	2	20
MK 325	Essentials in International Marketing	2	20
MK 326	Digital Marketing and Social Media	2	20

Joint Honours Curriculum in a Modern Language and Marketing

11.123.162 All students shall undertake a curriculum in Marketing as follows:

Compulsory Classes		Level	Credits
MK 412	Brand Management	4	20
Optional Classes			
40 credits chosen from:			
MK 410	Advances in Consumer Behaviour	4	20
MK 415	International Business Management	4	20
MK 416	Managing Customer Relations	4	20
MK 418	Social Marketing	4	20
MK 419	Sports Marketing	4	20
MK 421	Managing Integrated Marketing Comms: Theory & Practice	4	20

The credit requirements for the other Subject are specified in that subject's specialisation regulations.

11.123.163

to

11.123.170 (Numbers not used)

Specialisation in Mathematics

Subject Requirements

11.123.171 Compulsory Classes		Level	Credits
MM 201	Linear Algebra and Differential Equations	2	20
MM 204	Probability and Statistical Interference	2	20
MM 302	Differential Equations	3	20
MM 304	Inference and Regression Modelling	3	20

Optional Classes

MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
MM 206	Mathematical and Statistical Computing	2	20
MM 300	Complex Variables and Integral Transforms	3	20
MM 301	Linear Algebra	3	20
MM 306	Numerical Analysis	3	20
MM 307	Stochastics and Financial Econometrics	3	20

Such other classes as may be approved by the Course Director.

Joint Honours Curriculum in a Psychology and Mathematics

11.123.172 All students shall undertake a curriculum in Mathematics as follows:

Optional Classes

60 credits chosen from:

MM 401	Communicating Mathematics and Stats	4	20	
MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20	
MM 403	Applicable Analysis	4	20	
MM 404	Statistical Modelling and Analysis	4	20	
MM 405	Fluids and Waves	4	20	MM
406	Finite Element Methods for Boundary Value Problems and Approximation	4	20	MM
407	Applied Statistics in Society	4	20	
MM 408	Mathematical Biology and Marine Population Modelling	4	20	
MM 409	Mathematical Introduction to Networks	4	20	
MM 412	Optimization: Theory and Practice	4	20	
MM 414	Dynamical Models in Epidemiology	4	20	

**Please note that not all of these classes will be available every year
 11.123.173
 to
 11.123.200 (Numbers not used)

Primary Education

BA with Honours in Primary Education

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.124.1 All students are normally admitted in the first instance as potential Honours students. Transfer to and from the BA in Humanities and Social Sciences is possible.

Mode of Study

11.124.2 The course is available by full-time study only.

Place of Study

11.124.3 The course involves placements in schools for which a student must be a member of the PVG (Protecting Vulnerable Groups) Scheme. If they are already a member they must apply for an update.

First Year

11.124.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes	Level	Credits
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XX XXX	Education 1A: Year 1 Placement and Curriculum	1	20
XX XXX	Education 1B: Understanding Education in the 21 st Century	1	20

Optional Classes

2 x 40 credits of paired (1A + 1B) classes from Regulation 11.120.12

Second Year

11.124.5 Students will take 80 credits of Education classes in Year II and 20 credits of Level 2 classes, normally chosen from each of their other Year I subjects:
Compulsory Classes

XX XXX	Year 2 Pedagogy and Placement	2	20
XX XXX	Curriculum: Children's Language, Literature and Literacy in the Early Years of School	2	20
XX XXX	Curriculum: Mathematics in the Primary School	2	20
XX XXX	Learners and Learning	2	20

Third Year

11.124.6 Students will take:
Compulsory Classes:

XX XXX	Year 3 Pedagogy and Placement 1	3	20
XX XXX	Year 3 Pedagogy and Placement 2	3	20
XX XXX	History and Philosophy of Education	3	20
XX XXX	Curriculum: Science, Technology and Information Communication Technologies	3	20
XX XXX	Curriculum: The Arts (Music, Art & Design and Drama)	3	20
XX XXX	Curriculum: Exploring Global Citizenship through Social Studies, Religious and Moral Education and Physical Education	3	20

Fourth Year

11.124.7 Students will take:
Compulsory Classes

XX XXX	Year 4 Pedagogy and Placement	4	20
XX XXX	Policy and Politics in Education	4	20
XX XXX	Social Issues in Education	4	20
XX XXX	Curriculum: Additional Support Needs – Mathematics and Literacy	4	20
XX XXX	Social Research Methods	4	10
XX XXX	Dissertation	4	20

Optional Classes:

XX XXX	Inclusive Practice in Literacy and Numeracy	4	20
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Or

A 10 credit option class from a list approved by the Faculty

Progress

- 11.124.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum including those for the class XXXXX Education IA: Year 1 Placement and Curriculum.
- 11.124.9 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including those for the class XXXXX Pedagogy and Placement 1 and 2.
- 11.124.10 In order to progress to the fourth year of the course, a student must normally have obtained at least 360 credits from the course curriculum, including those for the classes XXXXX Pedagogy and Placement 1 and 2.

In addition, a student must meet the minimum entry requirements in terms of grades set by the Subject for entry into the Honours Year. Students who elect to graduate after completing three Levels of an Honours programme, or who gain 360 credits but do not meet the Honours entry requirements of their Subject(s), or who fail to gain 120 credits in their Honours year, may graduate with the degree of BA in the Faculty of Humanities and Social Sciences. See Regulation 11.120.27 and 11.120.89.

Final Honours Classification

See Regulation 11.120.25 and 26

Award

- 11.124.11 **BA with Honours:** In order to qualify for the award of the BA with Honours in Primary Education, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

Transfer

- 11.124.12 A candidate who fails to satisfy the progress or award requirements for the degree of BA with Honours in Primary Education or BEd in Primary Education may be transferred to the degree of BA in Humanities and Social Sciences or Arts and Social Sciences respectively

- 11.124.13
to 11.127 (Numbers not used)

11.128 Law

Bachelor of Laws (LLB) with Honours
Bachelor of Laws LLB
Diploma of Higher Education in Law
Certificate of Higher Education in Law

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.128.1 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.128.2 The courses are available by full-time and part-time study to Ordinary degree level and by full-time study only at Honours degree level. Students may only take the LLB with entry with advanced standing with a BSc in Computer Science with Law by full-time study.

Credit Transfer and Exemption

11.128.3 Students with appropriate qualifications may be admitted with advanced standing in which case their curriculum shall be modified (see Regulations 11.128.31-11.128.35 and 11.128.41-11.128.45).

Curriculum (Full-time Study)

First Year

11.128.4 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory	Classes	Level	Credit
M9 111	Criminal Law	1	20
M9 112	Voluntary Obligations: Contract and Promise	1	20
M9 113	Law and Society	1	20
M9 114	Legal Methods	1	20
M9 115	Legal Process	1	20
M9 116	Public Law 1	1	20

Second Year

11.128.5 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory	Classes	Level	Credits
M9 207	Public Law 2	2	20
M9 208	Domestic Relations	2	20
M9 209	Commercial Law	2	20
M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20
M9 211	Property Law	2	20
M9 212	European Community Law	2	20

Third Year

11.128.6 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
M9 306 Evidence	3	20

Elective Class(es) 20

Optional Classes

80 credits chosen from:

GU 306 Roman Law of Property and Obligations	3	20
M9 3xx Criminology	3	20
M9 305 Law, Film and Popular Culture	3	20
M9 307 Crime and Punishment	3	20
M9 308 Human Rights Law	3	20
M9 310 Planning Law	3	20
M9 311 Banking Law and Finance	3	20
M9 312 Legal Theory	3	20
M9 313 Housing Law	3	20
M9 314 Intellectual Property Law	3	20
M9 316 International Private Law	3	20
M9 317 Public International Law	3	20
M9 318 Competition Law	3	20
M9 319 Discrimination and the Law	3	20
M9 345 Ethics and Justice*	3	20
M9 338 Local Government Law	3	20
M9 352 Internet Law	3	20

Such other classes as may be approved by the Course Director.

*Can only be taken by students working in the Law Clinic

Fourth Year

11.128.7 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credit
M9 498 Dissertation	4	40

Optional Classes

80 credits chosen from:

M9 404 Issues in Intellectual Property	4	20
M9 408 European Union Law	4	20
M9 407 Law, Persons and Property	4	20
M9 409 Criminology	4	20
M9 410 Public International Law	4	20
M9 411 Labour Law	4	20
M9 412 Law of Business Associations	4	20
M9 413 Consumer Law	4	20
M9 417 Legal Aspects of International Trade	4	20

M9 418	Law of Competition	4	20
M9 419	Criminal Law	4	20
M9 420	Legal Profession	4	20
M9 423	Social and Welfare Law	4	20
M9 426	Computer Law	4	20
M9 428	Legislation	4	20
M9 431	Media Law	4	20
M9 433	Constitutional Law	4	20
M9 434	Protection of Human Rights in the UK	4	20
M9 446	Environmental Law	4	20
M9 452	Family Law	4	20
M9 453	Obligations	4	20
M9 456	Law, Justice and Society	4	20
M9 459	Financial Services Regulation	4	20

Such other classes as may be approved by the Course Leader.

Curriculum (Part-time study)

First Year

11.128.8 All part-time students shall normally undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credit
M9 111	Criminal Law	1	20
M9 114	Legal Methods	1	20
M9 115	Legal Process	1	20
M9 116	Public Law 1	1	20

Second Year

11.128.9 All part-time students shall normally undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credit
M9 112	Voluntary Obligations: Contract and Promise	1	20
M9 113	Law and Society	1	20
M9 207	Public Law 2	2	20
M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20

Third Year

11.128.10 All part-time students shall normally undertake classes amounting to 80 credits as follows:

Compulsory Class		Level	Credits
M9 208	Domestic Relations	2	20
M9 209	Commercial Law	2	20
M9 211	Property Law	2	20
M9 212	European Community Law	2	20

Fourth Year

11.128.11 All part-time students shall normally undertake classes amounting to 80 credits as follows:

Compulsory Class	Level	Credits
M9 306 Evidence	3	20

Optional Classes

60 credits chosen from the classes listed in Regulation 11.128.6

Fifth Year

11.128.12 All part-time students shall normally undertake classes amounting to 40 credits as follows:

Optional Classes

40 credits chosen from the classes listed in Regulation 11.128.6

Progress (Full-time Study)

11.128.13 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.128.14 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including those for all the first year compulsory classes.

11.128.15 In order to progress to the Honours year of the course, a student must normally have accumulated at least 360 credits from the course curriculum including those for all the compulsory classes.

Progress (Part-time study)

11.128.16 In order to progress to the second year of the course, a student must normally have accumulated at least 60 credits from the course curriculum.

11.128.17 In order to progress to the third year of the course, a student must normally have accumulated at least 140 credits from the course curriculum including those for all the first year compulsory classes.

11.128.18 In order to progress to the fourth year of the course, a student must normally have accumulated at least 220 credits from the course curriculum

11.128.19 In order to progress to the fifth year of the course, a student must normally have accumulated at least 300 credits from the course curriculum.

Transfer

11.128.20 A student who has qualified for the part-time LLB and who meets the requirements of Regulation 11.128.15 may apply to transfer to the full-time LLB Honours degree programme.

Final Honours Classification

11.128.21 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes taken in the fourth year;
- (ii) if appropriate, an oral examination.

Award

- 11.128.22 **LLB with Honours:** In order to qualify for the award of the degree of LLB with Honours, a candidate must have accumulated no fewer than 480 credits from the course curriculum. Notwithstanding Regulation 11.1.10, these must include 120 credits at Level 4.
- 11.128.23 **LLB:** In order to qualify for the award of the degree of LLB, a candidate must have accumulated no fewer than 360 credits from the course curriculum including those for all the compulsory classes.
- 11.128.24 **Diploma of Higher Education:** In order to qualify for the award of the Diploma of Higher Education in Law, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.128.25 **Certificate of Higher Education:** In order to qualify for the award of the Certificate of Higher Education in Law, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.128.26
to 11.128.30 (Numbers not used)

Students Admitted to the Course with Advanced Standing Credit Transfer and RPL

- 11.128.31 Students holding appropriate qualifications may be admitted with advanced standing to the course to reflect their previous degree or degree equivalent. Such students may be awarded credit transfer or RPL amounting to a maximum of 80 credits and shall undertake, in the case of full-time students, the special curriculum in Regulations 11.128.33 and 11.128.34, and in the case of part-time students, the curriculum in Regulations 11.128.42-11.28.45.

Curriculum (Full-time Study, Graduate Entry) Second Year

- 11.128.32 Students are admitted with advanced standing and are admitted direct to second year. All full-time students shall normally undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
M9 111	Criminal Law	1	20
M9 112	Voluntary Obligations: Contract and Promise	1	20
M9 113	Law and Society	1	20
M9 114	Legal Methods	1	20
M9 115	Legal Process	1	20
M9 116	Public Law 1	1	20
M9 208	Domestic Relations	2	20

Third Year

- 11.128.33 All full-time students shall normally undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
M9 207	Public Law 2	2	20
M9 209	Commercial Law	2	20

M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20
M9 211	Property, Trusts and Succession	2	20
M9 212	European Union Law	2	20
M9 306	Evidence	3	20

Optional Classes

20 credits chosen from the classes listed in Regulation 11.128.7.

Fourth Year

11.128.34 See Regulation 11.128.7

11.128.35

to 11.128.40 (Numbers not used)

Curriculum (Part-time study, Graduate Entry)

Second Year

11.128.41 Students are admitted with advanced standing and are admitted direct to second year. All part-time students shall normally undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credit
M9 111	Criminal Law	1	20
M9 114	Legal Methods	1	20
M9 115	Legal Process	1	20
M9 116	Public Law 1	1	20

Third Year

11.128.42 All part-time students shall normally undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credit
M9 112	Voluntary Obligations: Contract and Promise	1	20
M9 113	Law and Society	1	20
M9 207	Public Law 2	2	20
M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20

Fourth Year

11.128.43 All part-time students shall normally undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credits
M9 208	Domestic Relations	2	20
M9 209	Commercial Law	2	20
M9 211	Property, Trusts and Succession	2	20
M9 212	European Union Law	2	20

Fifth Year

11.128.44 All part-time students shall normally undertake classes amounting to 40 credits as follows:

Compulsory Class	Level	Credits
M9 306 Evidence	3	20

Optional Classes

20 credits chosen from the classes listed in Regulation 11.128.6.

Progress (Full-time Study, Graduate Entry)

11.128.45 In order to progress to the third year of the course, a student must normally have accumulated no fewer than 120 from the course curriculum.

Progress (Part-time study, Graduate Entry)

11.128.46 In order to progress to the third year of the course, a student must normally have accumulated at least 60 credits from the course curriculum.

11.128.47 In order to progress to the fourth year of the course, a student must normally have accumulated at least 140 credits from the course curriculum.

11.128.48 In order to progress to the fifth year of the course, a student must normally have accumulated at least 220 credits from the course curriculum including those for any compulsory classes.

Transfer

11.128.49 A student who has qualified for the LLB and who meets the requirements of Regulation 11.128.15 may apply to transfer to the full-time LLB Honours degree programme.

Award

11.128.50 LLB: Regulations 11.128.23 shall apply.

11.128.51

to 11.128.60 (Numbers not used)

Students Admitted to the Course with Advanced Standing with a BSc in Computer Science with Law

Credit Transfer and Exemption

11.128.61 Students already holding the BSc with Honours in Computer Science with Law or the BSc in Computer Science with Law from this University shall be awarded credit transfer amounting to 240 credits and shall be exempted from the first and second years of the course.

Curriculum (Full-time study)

First and Second Years

11.128.62 The first and second year curricula are not taught as part of this degree course.

Third Year

11.128.63 All full-time students shall normally undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
M9 111	Criminal Law	1	20
M9 207	Public Law 2	2	20
M9 208	Domestic Relations	2	20
M9 211	Property Law	2	20
M9 212	European Community Law	2	20
M9 306	Evidence	3	20

Fourth Year

11.128.64 Regulation 11.131.7 shall apply.

Progress

11.128.65 In order to progress to the Honours year of the course, a student must have accumulated at least 360 credits from the course curriculum including those for all the compulsory classes of the LLB whether obtained during BSc in Computer Science with Law or on this course.

Final Honours Classification

11.128.66 Regulation 11.131.21 shall apply.

Award

11.128.67 Regulations 11.131.22 and 11.131.23 shall apply.

11.128.68

to 11.128.70 (Numbers not used)

Law with a Modern Language

LLB with Honours in Law with a Modern Language

LLB in Law with a Modern Language

Diploma of Higher Education in Law with a Modern Language

Certificate of Higher Education in Law with a Modern Language

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.128.71 All students are admitted in the first instance as potential Honours students. Transfer to the LLB (Pass) degree may be possible at any time subject to satisfying the appropriate progress regulations.

Mode of Study

- 11.128.72 The courses are available by full-time study only.

Place of Study

- 11.128.73 The LLB with Honours in Law with a Modern Language includes a year of study at an approved European University.

Curriculum

First Year

- 11.128.74 All students shall undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credit
M9 112	Voluntary Obligations: Contract and Promise	1	20
M9 113	Law and Society	1	20
M9 114	Legal Methods	1	20
M9 115	Legal Process	1	20
M9 116	Public Law 1	1	20

together with 40 credits in the chosen Modern Language from

R1 107	French 1A	1	20
R1 108	French 1B	1	20
R3 108	Italian 1A	1	20
R3 109	Italian 1B	1	20
R4 107	Spanish 1A	1	20
R4 108	Spanish 1B	1	20

Second Year

- 11.128.75 All students shall undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
M9 111	Criminal Law	1	20
M9 207	Public Law 2	2	20
M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20
M9 211	Property	2	20
M9 213	Introduction to the Civil Law Systems	2	20

together with 40 credits in the chosen Modern Language from			
R1 203	French Language 2A	2	20
R1 204	French Language 2B	2	20
R3 203	Italian Language 2A	2	20
R3 204	Italian Language 2B	2	20
R4 206	Spanish Language 2A	2	20
R4 207	Spanish Language 2B	2	20

Third Year

11.128.76 All students shall undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
M9 208	Domestic Relations	2	20
M9 209	Commercial Law	2	20
M9 212	European Community Law	2	20
M9 306	Evidence	3	20

together with 40 credits in the chosen Modern Language from:

R1 305	French Language 3A	3	20
R1 306	French Language 3B	3	20
R3 305	Italian Language 3A	3	20
R3 306	Italian Language 3B	3	20
R4 308	Spanish Language 3A	3	20
R4 309	Spanish Language 3B	3	20

Elective Class(es) 20

Fourth Year

11.128.77 All students shall undertake an approved curriculum of study at a European University

Fifth Year

11.128.78 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes			
M9 498	Dissertation	4	40

together with 40 credits in the chosen Modern Language from

French

R1502	French Language A	4	10
R1503	French Language B	4	10
R1505	French Language C	4	10
R1 408	France since 1945	4	10

Italian

R3 531	Italian Language A	4	10
R3 532	Italian Language B	4	10
R3 533	Italian Language C	4	10
R3 535	Italian Resistance Culture	4	10

Spanish			
R4 551	Spanish Language A	4	10
R4 552	Spanish Language B	4	10
R4 553	Spanish Language C	4	10
R4 555	Spanish and Latin American Studies: Essays	4	10

Optional Classes

40 credits chosen from:

43 419	Legal Profession	4	20
M9 311	Banking Law and Finance	4	20
M9 312	Legal Theory	4	20
M9 316	International Private Law	4	20
M9 317	Public International Law	4	20
M9 345	Ethics and Justice*	3	20
M9 404	Issues in Intellectual Property	4	20
M9 408	European Union Law	4	20
M9 409	Criminology	4	20
M9 411	Labour Law	4	20
M9 412	Law of Business Associations	4	20
M9 413	Consumer Law	4	20
M9 414	Mediation	4	20
M9 417	Legal Aspects of International Trade	4	20
M9 418	Law of Competition	4	20
M9 419	Criminal Law	4	20
M9 423	Social and Welfare Law	4	20
M9 426	Computer Law	4	20
M9 428	Legislation	4	20
M9 446	Environmental Law	4	20
M9 452	Family Law	4	20
M9 453	Obligations	4	20
M9 455	Property	4	20
M9 456	Law, Justice and Society	4	20
M9 459	Financial Services Regulation	4	20
M9 M91	Media Law	4	20
M9 M93	Constitutional Law	4	20
M9 M94	Protection of Human Rights in the UK	4	20
either			
M9 405	Clinical Legal Practice 2A	4	20
or			
M9 406	Clinical Legal Practice 2B	4	20

*Can only be taken by students of the Law Clinic

Final Assessment and Honours Classification

11.128.79 On successful completion of the fifth year, a candidate will be awarded 120 Level 4 credits.

11.128.80 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes taken in the fifth year;
- (ii) if appropriate, an oral examination.

Progress

- 11.128.81 In order to progress to the second year of the course, a student must have accumulated at least 120 credits from the course curriculum.
- 11.128.82 In order to progress to the third year of the course a student must have accumulated at least 260 credits from the course curriculum including those for all the first year compulsory classes.
- 11.128.83 In order to progress to the fourth year of the course a student must have accumulated at least 420 credits from the course curriculum.

Award

- 11.128.84 **LLB with Honours:** Notwithstanding Regulation 11.1.10, in order to qualify for the award of the degree of Bachelor of Laws with Honours in Law with a Modern Language, a candidate must have accumulated no fewer than 560 credits from the course curriculum including those for all fifth year classes
- 11.128.85 **Distinction in the Spoken Language:** A candidate who qualifies for the award of the degree of Bachelor of Laws with Honours in Law with a Modern Language and who has, according to prescribed criteria and in the opinion of the BA Honours Board of Examiners, attained a high level of performance in the oral examination may be awarded the Honours degree with Distinction in the Spoken Language.
- 11.128.86 **LLB:** Notwithstanding Regulation 11.1.10, in order to qualify for the award of the degree of Bachelor of Laws in Law with a Modern Language, a candidate must have accumulated no fewer than 420 credits from the course curriculum including those for all the compulsory classes.
- 11.128.87 **Diploma of Higher Education:** Notwithstanding Regulation 11.1.10, in order to qualify for the award of the Diploma in Higher Education in Law with a Modern Language, a candidate must have accumulated no fewer than 280 credits from the course curriculum
- 11.128.88 **Certificate of Higher Education:** In order to qualify for the award of the Certificate in Higher Education in Law with a Modern Language, a candidate must have accumulated no fewer than 140 credits from the course curriculum.
- 11.128.89 to
- 11.128.90 (Numbers not used)

Law

Bachelor of Laws LLB (Clinical) with Honours Bachelor of Law LLB (Clinical)

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

- 11.128.91 All students are normally admitted in the first instance to the LLB with Honours degree. On being accepted as a Law Clinic Student Adviser, a student may, subject to satisfactory academic performance (criteria for which will be determined in advance by the Course Director and set out in the Clinical LLB programme Handbook for the relevant year), transfer to the LLB (Clinical) or LLB (Clinical) with Honours at the end of semester one of their first year. In the event that the number of applications for transfer exceeds

the number of places available, places will be allocated according to academic performance in semester one.

Mode of Study

11.128.92 The courses are available by full-time study only.

Credit Transfer and Exemption

11.128.93 Students with appropriate qualifications may be admitted with advanced standing in which case their curriculum shall be modified (see Regulations 11.128.107-11.128.111).

Curriculum

(Note: to qualify for the award of the LLB (Clinical) or the LLB (Clinical) with Honours, students are required to accumulate 120 and 160 credits respectively from Clinical classes)

First Year

11.128.94 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credit
M9 111	Criminal Law	1	20
M9 116	Public Law 1	1	20
M9 118	Legal Methods (Clinical)	1	20
M9 208	Domestic Relations	2	20
M9 120	Voluntary Obligations: Contract and Promise (Clinical)	1	20
either			
M9 115	Legal Process	1	20
or			
M9 119	Legal Process (Clinical)	1	20

Second Year

11.128.95 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
M9 212	European Union Law	2	20
either			
M9 207	Public Law 2	2	20
or			
M9 214	Public Law 2 (Clinical)	2	20
either			
M9 312	Legal Theory	3	20
or			
M9 217	Legal Theory (Clinical)	3	20
either			
M9 209	Commercial Law	2	20

or				
M9 215	Commercial Law (Clinical)		2	20
either				
M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2		20
or				
M9 216	Involuntary Obligations: Delict and Unjustified Enrichment (Clinical)	2		20
either				
M9 211	Property, Trusts and Succession	2		20
or				
M9 218	Property Trusts and Succession (Clinical)	2		20

Third Year

11.128.96 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
M9 306	Evidence	3	20
M9 320	Clinical Legal Practice	3	20
M9 345	Ethics and Justice	3	20

Elective Classes 20

Optional Classes

40 credits chosen from:

M9 339	Employment Law (Clinical)	3	20
M9 340	Discrimination Law (Clinical)	3	20
M9 341	Human Rights Law (Clinical)	3	20
M9 342	Housing Law (Clinical)	3	20
M9 343	Planning Law (Clinical)	3	20

or from the optional classes listed in Regulation 11.128.6

Fourth Year

11.128.97 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credit
Either		
M9 498 Dissertation	4	40
Or		
M9 415 Dissertation (Clinical)	4	40

Optional Classes

80 credits chosen from:

M9 404	Issues in Intellectual Property	4	20
M9 407	Law, Persons and Property	4	20

M9 408	European Union Law	4	20
M9 409	Criminology	4	20
M9 410	Public International Law	4	20
M9 411	Labour Law	4	20
M9 412	Law of Business Associations	4	20
M9 413	Consumer Law	4	20
M9 414	Mediation	4	20
M9 417	Legal Aspects of International Trade	4	20
M9 418	Law of Competition	4	20
M9 419	Criminal Law	4	20
M9 420	Legal Profession	4	20
M9 423	Social and Welfare Law	4	20
M9 426	Computer Law	4	20
M9 428	Legislation Law	4	20
M9 431	Media Law	4	20
M9 433	Constitutional Law	4	20
M9 434	Protection of Human Rights in the UK	4	20
M9 446	Environmental Law	4	20
M9 452	Family Law	4	20
M9 453	Obligations	4	20
M9 456	Law, Justice and Society	4	20
M9 459	Financial Services Regulation	4	20
M9 499	Ethics and Justice	4	20

Such other classes as may be approved by the Course Director.

Progress

- 11.128.98 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 11.128.99 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including those for all the first year compulsory classes.
- 11.128.100 In order to progress to the fourth year of the course, a student must normally have accumulated at least 360 credits from the course curriculum including those for all the compulsory classes and including at least 120 credits from Clinical classes.

Final Honours Classification

- 11.128.101 The final Honours classification will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes taken in the fourth year;
 - (ii) if appropriate, an oral examination.

Award

- 11.128.102 **LLB (Clinical) with Honours:** In order to qualify for the award of the degree of LLB (Clinical) with Honours a candidate must have accumulated no fewer than 480 credits from the course curriculum including at least 160 credits in Clinical classes. Notwithstanding Regulation 11.1.10, these must include 120 credits at Level 4 (40 of which must be credits in Clinical classes).
- 11.128.103 **LLB (Clinical):** In order to qualify for the award of the degree of LLB (Clinical), a candidate must have accumulated no fewer than 360 credits from the course curriculum including those for all the compulsory classes and including at least 120 credits in Clinical classes.

- 11.128.104 **Diploma of Higher Education:** In order to qualify for the award of the Diploma of Higher Education in Law (Clinical), a candidate must have accumulated no fewer than 240 credits from the course curriculum including at least 80 credits in Clinical classes.
- 11.128.105 **Certificate of Higher Education:** In order to qualify for the award of the Certificate of Higher Education in Law (Clinical), a candidate must have accumulated no fewer than 120 credits from the course curriculum including at least 40 credits in Clinical classes.

Transfer to LLB or LLB with Honours

- 11.128.106 A candidate who fails to satisfy the progress or award requirements for the degree of LLB (Clinical) or LLB (Clinical) with Honours may be transferred to the degree of LLB or LLB with Honours. Transfer from the LLB (Clinical) to the LLB or LLB (Clinical) with Honours to the LLB with Honours is possible at any time subject to satisfying the appropriate progress requirements. In cases of transfer a pass in M9 217 *Legal Theory (Clinical)* will be accepted in lieu of M9 103 *Law and Society* and all clinical variants of classes shall be deemed to be the equivalent of non-clinical versions.

Students Admitted to the Course with Advanced Standing Credit Transfer and RPL

- 11.128.107 Students holding appropriate qualifications may be admitted with advanced standing to the second year of the course to reflect their previous degree or degree equivalent. Such students may be awarded credit transfer or RPL amounting to a maximum of 80 credits.

Curriculum (Graduate Entry)

(Note: to qualify for the award of the LLB (Clinical) or the LLB (Clinical) with Honours, students are required accumulate 100 and 140 credits respectively from Clinical classes)

First Year

- 11.128.108 The first year curriculum is not taught as part of this degree course.

Second Year

- 11.128.109 All students shall normally undertake classes amounting to 160 credits as follows:

Compulsory Classes		Level	Credits
M9 111	Criminal Law	1	20
M9 116	Public Law 1	1	20
M9 118	Legal Methods (Clinical)	1	20
M9 120	Voluntary Obligations: Contract and Promise (Clinical)	1	20
M9 208	Domestic Relations	2	20
M9 212	European Union Law	2	20
either			
M9 115	Legal Process	1	20
or			
M9 119	Legal Process (Clinical)	1	20

either	M9 210	Involuntary Obligations: Delict and Unjustified Enrichment	2	20
or	M9 216	Involuntary Obligations: Delict and Unjustified Enrichment (Clinical)	2	20

Third Year

11.128.110 All students shall normally undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
M9 306	Evidence	3	20
M9 320	Clinical Legal Practice	3	20
M9 345	Ethics and Justice	3	20
either			
M9 312	Legal Theory	3	20
or			
M9 217	Legal Theory (Clinical)	3	20
either			
M9 207	Public Law 2	2	20
or			
M9 214	Public Law 2 (Clinical)	2	20
either			
M9 209	Commercial Law	2	20
or			
M9 215	Commercial Law (Clinical)	2	20
either			
M9 211	Property, Trusts and Succession	2	20
or			
M9 218	Property, Trusts and Succession (Clinical)	2	20

Fourth Year

11.128.111 See Regulation 11.128.97.

Progress

11.128.112 In order to progress to the third year of the course, a student must normally have accumulated at least 200 credits from the course curriculum including no fewer than 120 from the compulsory classes.

11.128.113 In order to progress to the fourth year of the course, a student must normally have accumulated at least 380 credits from the course curriculum including those for all the compulsory classes and at least 100 credits in Clinical classes.

Award

11.128.114 **LLB (Clinical) with Honours:** In order to qualify for the award of the degree of LLB (Clinical) with Honours a candidate must have accumulated no fewer than 480 credits from the course curriculum including at least 140 credits in Clinical classes. Notwithstanding Regulation 11.1.10, these must include 120 credits at Level 4 (40 of which must be credits in Clinical classes).

11.128.115 **LLB (Clinical):** Notwithstanding Regulation 11.1.10, in order to qualify for the award of the degree of LLB (Clinical), a candidate must have

accumulated no fewer than 380 credits from the course curriculum including those for all the compulsory classes and at least 100 credits in Clinical classes.

Transfer to LLB or LLB with Honours

11.128.116 A candidate who fails to satisfy the progress or award requirements for the degree of LLB (Clinical) or LLB (Clinical) with Honours may be transferred to the degree of LLB or LLB with Honours. Transfer from the LLB (Clinical) to the LLB or LLB (Clinical) with Honours to the LLB with Honours is possible at any time subject to satisfying the appropriate progress requirements. In cases of transfer a pass in M9 217 *Legal Theory (Clinical)* will be accepted in lieu of M9 103 *Law and Society* and all clinical variants of classes shall be deemed to be the equivalent of non-clinical versions.

11.129 Music

Applied Music

BA with Honours in Applied Music

BA in Applied Music

Diploma of Higher Education in Applied Music

Certificate of Higher Education in Applied Music

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Admission

11.129.1 Regulation 11.1.1 shall apply. In addition, applicants will be required to undertake a practical audition as specified by the Department.

Status of the Courses

11.129.2 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.129.3 The courses are available by full-time study only.

Place of Study

11.129.4 The courses involve placements outwith the University campuses for which students must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Curriculum

First Year

11.129.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
W3 124	Music Foundations and Keyboard Versatility 1	1	20
W3 126	Creative Skills 1	1	20
W3 127	Music in its Social, Historical and Cultural Context 1	1	20
W3 128	Solo Performance 1	1	20

W3 129	Ensemble Work 1	1	20
W3 130	Music Technology 1	1	20

Second Year

11.129.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
W3 225	Music Foundations and Keyboard Versatility 2	2	20
W3 230	Music in its Social, Historical and Cultural Context 2	2	20
W3 232	Ensemble Work 2	2	20

Optional Classes

60 credits chosen from:

W3 229	Creative Skills 2	2	20
W3 231	Solo Performance 2	2	20
W3 233	Music Technology 2	2	20
W3 363	Structure of the UK Music Industry	2	20

Third Year

11.129.7 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
W3 346	Music in the Community Educational and Entrepreneurial Contexts 1	3	20
W3 347	Enquiry Research Methods: Arts Contexts	3	20

Elective Class(es) 20

Optional Classes

60 credits chosen from:

W3 348	Music Technology 3	3	20
W3 349	Music Production 1	3	20
W3 350	Musical Applications in Creative Contexts 1	3	20
W3 355	Creative Skills 3	3	20
W3 356	Music in its Social, Historical and Cultural Context 3	3	20
W3 357	Solo Performance 3	3	20
W3 360	Orchestration 1	3	20
W3 361	Ensemble Work 3	3	20
W3 365	Jazz Studies 1	3	20

Fourth Year

11.129.8 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
W3 446	Music in the Community Educational and Entrepreneurial Contexts 2	4	20
together with either			
W3 447	Solo Performance Recital	4	40
W3 462	Ensemble Work 4	4	20
or			

W3 449	Album Project	4	40
W3 450	Music Production 2	4	20
or			
CA 469	Creative Skills 4	4	20
W3 451	Composition Portfolio	4	40
or			
W3 452	Dissertation	4	40
W3 460	Music in its Social, Historical and Cultural Context 4	4	20

Optional Classes

40 credits chosen from:

CA 464	Orchestration 2	4	20
W3 450	Music Production 2	4	20
W3 453	Musical Applications in Creative Contexts 2	4	20
W3 460	Music in its Social, Historical and Cultural Context 4	4	20
W3 462	Ensemble Work 4	4	20
W3 467	Jazz Studies 2	4	20
W3 469	Creative Skills 4	4	20

Progress

- 11.129.9 In order to progress to the second year of the course, a student must normally have accumulated no fewer than 120 credits from the course curriculum.
- 11.129.10 In order to progress to the third year of the course, a student must have accumulated no fewer than 220 credits from the course curriculum.
- 11.129.11 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the course curriculum.

Final Honours Classification

- 11.129.12 The final Honours classification will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes which are taken in the fourth year;
 - (ii) if appropriate, an oral examination.

Award

- 11.129.13 **BA with Honours:** In order to qualify for the award of the degree of BA with Honours in Applied Music, a candidate must have accumulated no fewer than 480 credits from the course curriculum.
- 11.129.14 **BA:** In order to qualify for the award of the degree of BA in Applied Music a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.129.15 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Applied Music, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.129.16 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Applied Music, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

- 11.130 **Physical Activity for Health**

Sport and Physical Activity

BSc with Honours in Sport and Physical Activity

BSc in Sport and Physical Activity

Diploma of Higher Education in Sport and Physical Activity

Certificate of Higher Education in Sport and Physical Activity

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Courses

11.130.1 All students are normally admitted in the first instance as potential Honours students.

Mode of Study

11.130.2 The courses are available by full-time study only.

Place of Study

11.130.3 The courses involve placements outwith the University campuses for which students must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Curriculum

First Year

11.130.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes	Level	Credits
B1 123 Culture and Context of Sport and Physical Activity	1	20
B1 124 Foundations of Physical Activity for Health	1	20
B1 125 Foundations of Sport and Physical Activity Psychology	1	20
B1 126 Introductory Physiology and Biomechanics	1	20
B1 127 Physiology and Biomechanics	1	20
B1 128 Sports Practice 1	1	20

Second Year

11.130.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes	Level	Credits
B1 221 Coaching Practice and Sport Development	2	20
B1 222 Key Concepts in Sport and Physical Activity Psychology	2	20
B1 223 Measurement and Statistics	2	20
B1 224 Physical Activity for Health, Fitness and Wellbeing	2	20
B1 225 Physiology of Aerobic Exercise	2	20
B1 226 Sports Practice 2	2	20

Third Year

11.130.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
B1 310	Placement and Professional Development	3	20
B1 343	Research Methods for Professions	3	20

Optional Classes

60 credits chosen from:

B1 311	Research Project in Physical Activity for Health	3	20
B1 345	Sports Practice 3	3	20
B1 406	Coaching Concepts	4	20
B1 407	Sport in the Community	4	20
B1 446	Physical Education in Schools	4	20
B1 447	Biomechanics of Human Movement	4	20
B1 448	Muscle Function and Conditioning	4	20
B1 449	Nutrition for Health and Exercise	4	20
B1 450	Physical Activity Promotion and Policy	4	20
B1 451	Physical Activity with Special Populations	4	20
B1 452	Advanced Topics in Sport and Exercise		
	Psychology 1: Psychology of Physical Activity for Health *	4	20
B1 452	Advanced Topics in Physical Activity (not Physical Education)	4	20
B1 453	Advanced Topics in Sport and Exercise		
	Psychology 2: Performance Psychology*	4	20

* Some of the classes offered will vary from year to year

Elective Classes	20
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Fourth Year

11.130.7 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
B1 405	Dissertation	4	40
B1 455	Dissertation Research Skills	4	20

Optional Classes

60 credits chosen from the Optional Classes listed in Regulation 11.130.6.

Progress

11.130.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum, including all classes that are prerequisites for specific second year modules.

11.130.9 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum, including all classes that are prerequisites for compulsory third year modules.

11.130.10 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum.

Final Honours Classification

- 11.130.11 The final Honours classification will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes taken in the third and fourth years.
 - (iii) if appropriate, an oral examination.

Award

- 11.130.12 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Sport and Physical Activity, a candidate must have accumulated no fewer than 480 credits from the course curriculum.
- 11.130.13 **BSc:** In order to qualify for the award of the degree of BSc in Sport and Physical Activity, a candidate must have accumulated no fewer than 360 credits from the course curriculum.
- 11.130.14 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Sport and Physical Activity, a candidate must have accumulated no fewer than 240 credits from the course curriculum.
- 11.130.15 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Sport and Physical Activity, a candidate must have accumulated no fewer than 120 credits from the course curriculum.
- 11.131 (Number not used)

11.132 Psychology

Psychology

**BSc with Honours in Psychology
BSc in Psychology**

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

The degree of BSc with Honours in Psychology is offered in conjunction with International Medical University, Malaysia, and the award is made in the name of the University of Strathclyde. The regulations are drawn up consequent upon the Memorandum of Agreement between both Universities as approved by the Senate.

Status of the Courses

11.132.1 Admission to the degree will normally be limited to those students who have passed the designated course offered by the International Medical University. Such students shall be awarded credit transfer or RPL amounting to 240 credits. All students are admitted in the first instance as potential Honours students. All third and fourth year classes are taught and examined at the University of Strathclyde.

Mode of Study

11.132.2 The course is available by full-time study only.

Curriculum

First and Second Years

11.132.3 The first and second year curricula are not taught as part of the course.

Third Year

11.132.4 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
C8 302	Research Methods in Psychology	3	20
C8 303	Individual Differences	3	20
C8 304	Cognition	3	20
C8 305	Development	3	20
C8 306	Psychobiology	3	20
C8 307	Social Psychology	3	20

Fourth Year

11.132.5 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
C8 417	Conceptual and Historical Issues in Psychology	4	20
C8 498	Dissertation in Psychology	4	20

Optional Classes

80 credits chosen from the list of optional classes in Regulation 11.120.114.

Progress

- 11.132.6 In order to progress to the final year of the course a student must have accumulated 360 credits from the course curriculum. In addition, a student must have achieved a specified standard of performance having regard to level of study, academic attainment and any other criteria as specified in the Course Handbook.

Final Assessment and Honours Classification

- 11.132.7 In accordance with Regulation 11.1.29 a candidate who has not submitted the dissertation in the prescribed form by the due date as specified by the Department of Psychology may not be eligible to enter the Final Honours Examination.

- 11.132.8 The final Honours classification will normally be based on
- (i) the first assessed attempt at compulsory and specified optional classes taken in the fourth year and, as appropriate, in the third year;
 - (ii) if appropriate, an oral examination.

Award

- 11.132.9 **BSc with Honours:** In order to qualify for the award of the BSc with Honours in Psychology, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

- 11.132.10 **BSc:** In order to qualify for the award of the BSc in Psychology, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.133 Social Work

Social Work

BA with Honours in Social Work

BA with Honours in Social Work (in a Residential Child Care Context)

BA in Applied Social Studies

Diploma of Higher Education in Applied Social Studies

Certificate of Higher Education in Applied Social Studies

The awards are conferred jointly by the University of Glasgow and the University of Strathclyde. The regulations are drawn up consequent upon a Memorandum of Understanding which has been approved by Senate. The University of Strathclyde is the administering university.

Course Regulations

[These regulations are to be read in conjunction with the General Regulations for Undergraduate Study at the University of Strathclyde (Regulation 11.1)]

Status of the Degree

11.133.1 Students may only be admitted in the first instance as potential Honours students once they have registered as social work students with the Scottish Social Services Council (SSSC). Students whose registration is revoked by the SSSC may not go on any further placement and will be transferred to the BA, Diploma or Certificate of Higher Education in Applied Social Studies subject to satisfying the progress and award requirements.

Mode of Study

11.133.2 The courses are available by full-time study only.

Place of Study

11.133.3 The courses involve placements in social work agencies for which students must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Curriculum

First Year

11.133.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
L5 107	Preparing for Lifelong Learning	1	20
L5 108	Understanding Social Science	1	20
L5 109	Psychology for Social Work	1	20
L5 110	Values Ethics and Justice	1	20
L5 111	Participation in an Unequal Society	1	20
Elective Class(es)			20

Second Year

11.133.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
L5 201	Social Work Organization and Collaborative Practice	2	20
L5 205	Living in Society	2	20
L5 206	Social Work Processes and Practice	2	20
L5 209	Law for Social Work Practice	2	20
L5 211	Understanding Risk and Protection	2	20
either			
L5 207	Social Work in Diverse Contexts	2	20
or			
L5 208	Social Work in Diverse Contexts (in a Residential Child Care Context)	2	20

Third Year

11.133.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
L5 311	Social Work in a Global Context	3	20
L5 312	Social Work Approaches and Methods	3	20
L5 313	Social Research and Social Work	3	20

together with classes appropriate to the chosen course

BA with Honours in Social Work

L5 309	Assessed Practice 1	3	60
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BA with Honours in Social Work (in a Residential Child Care Context)

L5 310	Assessed Practice 1 (in a Residential Child Care Context)	3	60
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BA in Applied Social Studies

Elective Classes			60
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Fourth Year

11.133.7 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
L5 409	Lifelong Learning for Social Work	4	20
L5 410	Honours Dissertation	4	40
either			
L5 407	Assessed Practice 2	4	60
or			
L5 408	Assessed Practice 2 (in a Residential Child Care Context)	4	60

Progress

11.133.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

11.133.9 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including those

for the class *L5 207 Social Work in Diverse Contexts* or *L5 208 Social Work in Diverse Contexts (in a Residential Child Care Context)*.

11.133.10 In order to progress to the fourth year of the course, a student must have accumulated 360 credits from the course curriculum including those for the class *L5 309 Assessed Practice 1* or *L5 310 Assessed Practice 1 (in a Residential Child Care Context)*.

11.133.11 Progression at all stages on the Honours course for Social Work and for Social Work (in a Residential Child Care Context) is dependent on students maintaining registration with the Scottish Social Services Council.

Final Honours Classification

11.133.12 The final Honours classification will normally be based on

- (i) the first assessed attempt at compulsory classes in the third and fourth years.
- (ii) if appropriate, an oral examination.

Award

11.133.13 **BA with Honours:** In order to qualify for the award of the degree of BA with Honours in Social Work, a candidate must have accumulated no fewer than 480 credits from the course curriculum including those for the class *L5 407 Assessed Practice 2*.

11.133.14 In order to qualify for the award of the degree of BA with Honours in Social Work (in a Residential Child Care Context), a candidate must have accumulated no fewer than 480 credits from the course curriculum including those for the class *L5 408 Assessed Practice 2 (in a Residential Child Care Context)*

11.133.15 **BA:** In order to qualify for the award of the BA in Applied Social Studies, a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.133.16 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Applied Social Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.133.17 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Applied Social Studies, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.134 (Number not used)

11.135 Speech and Language Pathology

Speech and Language Pathology

BSc with Honours in Speech and Language Pathology

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Course

11.135.1 The degree in Speech and Language Pathology is offered at Honours level only. Transfer to the BSc in Human Communication Studies is possible at any time for a student taking the 3rd year curriculum in good academic standing.

Mode of Study

11.135.2 The course is available by full-time study only.

Place of Study

11.135.3 The course involves placements and lectures outwith the University campus for which students must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Curriculum

First Year

11.135.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
GU101	Anatomy: Head, Neck and Nervous System	1	20
B6109	Phonetics Theory and Practical Phonetics	1	20
C8107	Introduction to Psychology	1	20
B6114	Introduction to Physiology and Linguistics	1	20
B6112	Personal Development and Professional Practice 1	1	20
94160	Foundations for Practice in Health and Social Care1		20
Elective Class(es)			20

Second Year

11.135.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
B6 207	Linguistics: Theory, Development and Clinical Application	2	20
B6 208	Speech, Language and Communication Needs and Intervention 1	2	20
B6 209	Speech, Language and Communication Needs and Intervention 2	2	20
B6 210	Adult Aphasia, Dysarthria and Voice	2	20
B6 211	Personal Development and Professional Practice 2	2	20
B6 215	Clinical Medical Studies	2	20

Third Year

11.135.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
B6 322	Clinical Decision Making and Counselling	3	20
B6 324	Professional Roles and Linguistic Perspectives	3	20
B6 325	Further Studies in Adult Communication Disorders	3	20
B6 326	Persistent Childhood Speech, Language and Communication Disorders	3	20
B6 327	Personal Development and Professional Practice 3	3	20
C8 203	Introduction to Research Design and Analysis	2	20

Fourth Year

11.135.7 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
B6 435	Research Investigation 1	4	20
B6 436	Research Investigation 2	4	20
B6 437	Continuing Professional Development	4	20
B6 439	Personal Development and Professional Practice 4	4	20
Elective Class		3/4	40

Progress

11.135.8 In order to progress to the second year of the course, a student must have accumulated no fewer than 100 credits from the course curriculum.

11.135.9 In order to progress to the third year of the course, a student must have accumulated no fewer than 220 credits from the course curriculum.

11.135.10 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the course curriculum.

Final Honours Classification

11.135.11 The final Honours classification will normally be based on:

- (i) the first assessed attempt at compulsory classes taken in the fourth year or a capped grade of 40% for 2nd attempts
- (ii) if appropriate, an oral examination.

Award

11.135.12 **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in Speech and Language Pathology, a candidate must have accumulated no fewer than 480 credits from the course curriculum.

Transfer

11.135.13 A candidate who has accumulated 360 credits and who then fails to satisfy the progress or award requirements for the degree of BSc with Honours in Speech and Language Pathology may be transferred to the degree of BSc in Human Communication Studies.

11.135.14
to 11.135.20 (Numbers not used)

Human Communication Studies

BSc in Human Communication Studies

Diploma of Higher Education in Human Communication Studies

Certificate of Higher Education in Human Communication Studies

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Status of the Degree

11.135.21 All students will normally have been admitted in the first instance to the BSc with Honours in Speech and Language Pathology.

Mode of Study

11.135.22 The course is available by full-time study only.

Place of Study

11.135.23 The course may involve placements outwith the University campus for which students a valid Disclosure Scotland Certificate or PVG (Protecting Vulnerable Groups) Scheme.

Curriculum

First Year

11.135.24 See Regulation 11.135.4

Second Year

11.135.25 See Regulation 11.135.5

Third Year

11.135.26 See Regulation 11.135.6

Progress

11.135.27 In order to progress to the second year of the course, a student must have accumulated no fewer than 100 credits from the course curriculum.

11.135.28 In order to progress to the third year of the course, a student must have accumulated no fewer than 220 credits from the course curriculum.

Awards

11.135.29 **BSc:** In order to qualify for the award of the degree of BSc in Human Communication Studies a candidate must have accumulated no fewer than 360 credits from the course curriculum.

11.135.30 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Human Communication Studies, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.135.31 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Human Communication Studies, a

candidate must have accumulated no fewer than 120 credits from the course curriculum.

11.136.32
to 11.139

(Numbers not used)

11.140 Validated Courses

Social Sciences

Diploma of Higher Education in Social Sciences Certificate of Higher Education in Social Sciences

Course Regulations

[These regulations are to be read in conjunction with Regulation 11.1]

Admission

11.140.1 In addition to the requirements of Regulation 2, applicants will normally be required to attend for interview as part of the selection process.

Direct entry to the Diploma may be permitted subject to approval of the Vice-Dean (Academic) on the recommendation of the Course Leader. In such cases, account will be taken of prior learning. Where direct entry to the Diploma is permitted, the student will be granted an appropriate number of credits by the Vice-Dean (Academic) on the recommendation of the Course Leader.

Status of the Courses

11.140.2 All students are normally admitted in the first instance as potential diploma students.

Mode of Study

11.140.3 The courses are available by full-time study only.

Place of Study

11.140.4 The courses are taught at the City of Glasgow College (formerly Central College).

Curriculum

First Year

11.140.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CC 117	Politics 1A	1	20
CC 118	Politics 1B	1	20
XX XXX	History 1A	1	20
XX XXX	History 1B	1	20
CC 121	Psychology 1A	1	20
CC 124	Introduction to Economics	1	20

Second Year

11.140.6 All students shall undertake classes amounting to no fewer than 120 credits as follows:

Compulsory Classes		Level	Credits
CC 244	International Relations and Global Politics	2	20
CC 245	Contemporary British Governance	2	20
CC 246	Modern Political Thought	2	20

3 x 20 credit classes at level 2 in History.

Progress

11.140.7 In order to progress to the second year of the course, a student must normally have accumulated at least 100 credits from the course curriculum including those from CC 117 Politics 1A, CC 118 Politics 1B, XX XXX History 1A and XX XXX History 1B.

Award

11.140.8 **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Social Sciences, a candidate must have accumulated no fewer than 240 credits from the course curriculum.

11.140.9 **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Social Sciences, a candidate must have accumulated no fewer than 120 credits from the course curriculum.

Transfer

11.140.10 A candidate who has accumulated no fewer than 240 credits from the course curriculum including those for all the compulsory classes, and who is deemed to have achieved an approved standard of performance, may be permitted to transfer to the third year of the BA in Arts and Social Sciences.

Integrated Masters Degrees

The following awards are conferred by the University by the authority of the Senate under Ordinances 3 and 5 in accordance with the following General Regulations:

Master in Science (MSci)
Master of Architecture (MArch)
Master of Chemistry (MChem)
Master of Engineering (MEng)
Master of Mathematics (MMath)
Master of Pharmacy (MPharm)
Master of Physics (MPhys)

Notes:

- 1 *Decisions on admission are taken by Course Directors, Vice-Deans or Heads of Department (or their nominee(s)).*
- 2 *All decisions taken by Boards of Study, acting on behalf of the Senate, shall subsequently be reported to the Senate.*
- 3 *All decisions taken by Boards of Examiners shall subsequently be reported to the relevant Board of Study which shall receive them on behalf of the Senate.*
- 4 *Decisions on awards are taken by Boards of Study on behalf of the Senate. The Board of Study may delegate this power by formal resolution following specific recommendation to the Senate.*
- 5 *Where reference is made in Regulations to information in Course Handbooks, that information shall have been approved by the relevant Board of Study.*
- 6 *The curriculum shall comprise compulsory, optional and elective classes. These are defined as follows:
'Compulsory' refers to classes which must be taken as part of the course curriculum.
'Optional' refers to classes chosen by a student from a list defined in a course curriculum.
'Elective' refers to classes freely chosen by a student from classes offered by the University.
Optional and Elective classes may be restricted by requirements for defined pre-requisites, availability and timetabling constraints (see the Class Catalogue for the detailed list of classes).
Where a class has a pre-requisite this should be clearly stated in the Class Catalogue and in the Course Handbook.*
- 7 *The course regulations that follow quote SHE Levels. The equivalence of SHE and SCQF Levels is as follows:
SHE Level 1: SCQF Level 7 SHE Level 2: SCQF Level 8
SHE Level 3: SCQF Level 9 SHE Level 4: SCQF Level 10
SHE Level 5: SCQF Level 11*
- 8 *In interpreting these regulations, reference should be made, where appropriate, to Course Handbooks. Regard should also be taken of the Regulations contained in Part 1 of the University Calendar.*
- 9 *In the unlikely event of any conflict between the Regulations and other University publications including Course Handbooks, Regulations take precedence.*

12.1 General Regulations for Integrated Masters Degrees

Admission

- 12.1.1 Every applicant for admission to an Integrated Masters course must satisfy the General Entrance Requirements as specified in Regulation 2 and any additional Course Entrance Requirements specified by the Department(s) and approved by the relevant Board of Study.

Credit Transfer and Recognition of Prior Learning (RPL)

- 12.1.2 The relevant Board of Study (or nominee(s)) may admit applicants and/or approve exemption from part of a course by credit transfer or RPL provided this is done in accordance with University procedures and against criteria defined on a course by course basis.

Credit granted for credit transfer or RPL may only be used once and, when used to gain exemption, will normally relate to achievements within 5 years of registration on a University of Strathclyde course.

Exemption granted on the basis of credit transfer or RPL will be allowed primarily where an applicant can demonstrate that the relevant specific learning outcomes have been achieved (i.e. primarily for specific rather than general credit). The extent of any allowed exemption shall preferably not exceed 20% and shall normally not exceed 40% of the credits appropriate to the course. Exceptionally, by formal resolution, the Senate may approve up to 60% exemption in special circumstances.

Where any such exemption is granted, the Board of Study will award the appropriate number of credits and may reduce the minimum and maximum period of study appropriately.

Modes of Study

- 12.1.3 Courses are offered on a full-time and/or part-time basis except where indicated to the contrary in the course regulations.

At the discretion of the relevant Board of Study on the recommendation of the relevant Course Director (or nominee), a student may transfer from full-time to part-time study and vice-versa where an appropriate course is available, at which time the relevant minimum and maximum periods of study will be reviewed.

Minimum Periods of Study

- 12.1.4 For full-time study, the minimum period of study shall normally be 5 years (assuming entry at Level 1).

For part-time study, the minimum period of study shall be the learning equivalent of the full-time study period required, taking account of the conditions under which the student will work. The overall duration of study will normally be greater than for full-time study.

Maximum Periods of Study

- 12.1.5 Unless otherwise specified, the maximum periods of study shall be 7 years for full-time study and 12 years for part-time study (assuming entry at Level 1)

Exceptionally, the maximum period of study may be extended by the Senate on the recommendation of the relevant Board of Study.

Place of Study

- 12.1.6 Except where the Senate has approved distance learning arrangements for off-campus delivery, instructional classes shall normally be undertaken within the University.
A student may undertake part of their study in an approved institution abroad, according to an approved curriculum. Normally only one such study period, to be taken prior to the final year of their course, is permitted.

Course Structure and Curriculum

- 12.1.7 Each candidate for an award must follow the curriculum prescribed in the relevant course regulations. These may be amended from time to time by the Senate on the recommendation of the relevant Board of Study.
- 12.1.8 In accordance with the University Awards Framework, individual classes shall be assigned a level based on expected learning outcomes and a credit rating based on the volume of learning required.
- 12.1.9 The award structure of courses shall normally accord with the following:

Award	Credit Requirement	Minimum Level Requirement
Master in Science, Master of Pharmacy, Master of Architecture, Master of Chemistry, Master of Engineering, Master of Mathematics and Master of Physics	600 credits	120 credits at Level 5 220 credits at Levels 4 + 5

For the avoidance of doubt, credits at a higher level shall, where necessary, be deemed to satisfy the requirements at a lower level.

(Notes:

- 1 For a typical student, 1 credit equates to approximately 10 hours of total student effort.
- 2 In certain circumstances, for example to meet professional accreditation requirements, the credit requirement may exceed the above framework.)

- 12.1.10 The curriculum of every student must be approved at the start of each academic year or level of study (as appropriate) by the relevant Course Director, or equivalent, acting on behalf of the Board of Study.
- 12.1.11 Each degree course curriculum shall include elective classes amounting to no fewer than 20 credits normally taken prior to the fourth year of full-time study.
- 12.1.12 A full-time student shall in each year of study follow a curriculum containing 120 credits including any elective credits.
- 12.1.13 Notwithstanding the provisions of Regulation 12.1.12, exceptionally, additional optional classes at an appropriate level may be chosen as part of the curriculum subject to the approval of the Head of Department (or nominee) responsible for offering each class. The curriculum (of the student) shall be reported to the Board of Study.
- 12.1.14 Notwithstanding the provisions of Regulation 12.1.12, by formal resolution of the Senate, a course curriculum may exceed 120 credits in any one year.
- 12.1.15 Where a full-time student is admitted with advanced standing and is exempted from part of an academic year's curriculum, additional classes may require to be taken to bring the total credits studied to at least 120 credits.

- 12.1.16 In the first and second years of full-time study, the curriculum will normally comprise six 20 credit classes. By formal resolution of the Senate, a 20 credit class may be replaced by two 10 credit classes in the first and/or second years of any course.
In the third, fourth and fifth years of full-time study, classes in integer multiples of 20 credits may be permitted, subject to approval by the Senate.
- 12.1.17 A student studying on a part-time or distance learning basis shall undertake a curriculum of typically 40 – 80 credits in any year of study.
- 12.1.18 The curriculum for a course shall be set out in the course regulations and shall indicate which classes are compulsory or optional. Where a pass in a particular class is a necessary condition for progress or for the award of a degree, this shall be clearly stated in the relevant course regulations.
- 12.1.19 Notwithstanding the provisions of Regulation 12.1.10, where unlisted optional classes may be chosen as part of the curriculum, the approval of the Head of Department (or nominee) responsible for offering each class is also required.
- 12.1.20 The University cannot guarantee that all optional and/or elective classes will be available in any given academic year. The choice of classes may be subject to constraints of timetabling and may also be influenced by professional requirements as well as by a student's entrance qualifications or pre-requisite classes passed.

Attendance and Performance

- 12.1.21 Every applicant admitted to a course of study shall be required to attend regularly and to perform satisfactorily the work of each class in their curriculum.
- 12.1.22 A student has an obligation to inform the University at the first reasonable opportunity of any medical or other circumstances which might adversely affect their attendance, performance and/or ability to study.
- 12.1.23 A student who, in the opinion of the Head(s) of Department(s) (or nominees) offering a class and the relevant Vice Dean Academic, does not satisfy the requirements as to attendance and to performance and having been informed in writing, shall not be entitled to take the examination or outstanding assessments in the subject of that class.
- 12.1.24 Notwithstanding Regulation 12.1.23, a registered student may subsequently be permitted by the Head of Department to take the examination or outstanding assessments in the subject of the class at the next available opportunity subject to satisfactory completion of appropriate course work.

Examinations and Assessment

- 12.1.25 A student shall complete the assessments during the academic year in which the classes were undertaken unless permitted by the relevant Board of Study to postpone the assessment.
- 12.1.26 Taught classes shall be assessed by
 (i) coursework assignments; or
 (ii) written examinations; or
 (iii) oral examinations; or
 (iv) any combination of the above
 unless specified otherwise in the relevant Course Handbook.
 Except where a course includes an integrative/reflective class that will draw on work in other classes, each item of work may only be assessed in one class.

- 12.1.27 There shall normally be two diets of formal assessment (in January or in May and in August approximately) for each class at Levels 1, 2 and 3 in each academic year. However, the assessment for a class at Levels 4 and 5 will normally be held only once in each academic year unless the relevant Board of Study decides otherwise. See Regulation 4.1.10.
- 12.1.28 Where a pass in the project or dissertation taken in the final year is required for the award of the degree, a candidate who fails to submit the project or dissertation by the due date may not be eligible to complete the remainder of the Final Year assessment.
- 12.1.29 The progress of every student shall be determined by the relevant Board of Examiners, although the Board shall defer consideration of progress or award for any student currently involved in disciplinary proceedings.
- 12.1.30 A student who is deemed to have failed in a taught class at Level 1, 2 or 3 or who has been debarred in terms of Regulation 12.1.23 shall normally have one further opportunity to be re-assessed on a similar basis or by such other means as the Department(s) offering the class may decide. The nature of re-assessment to be applied to all students shall be identified in Course Handbooks.
- Unless prior authority of the relevant Board of Study has been given, a student who fails to satisfy the Board of Examiners at the first assessment for a class shall undertake re-assessment at the first available opportunity.
- 12.1.31 At the discretion of the relevant Board of Examiners or Course Director, students may be required to attend and participate in an oral examination. Exceptionally, this may be in place of the normal assessment for the relevant class(es). Note that Regulations 12.1.30 and 12.1.31 do not permit a borderline candidate to be given an oral examination by an External Examiner.
- 12.1.32 Notwithstanding the provisions of Regulation 12.1.30, the Board of Examiners may exceptionally permit alternative forms of re-assessment for a class where they consider it to be in a student's interest.
- 12.1.33 Notwithstanding the provisions of Regulation 12.1.30, the Board of Examiners may permit a student who satisfies the attendance and performance requirements of a class a maximum of two further attempts at passing the class. The Board of Examiners may additionally require a student to re-attend a class.
- 12.1.34 Notwithstanding the provisions of Regulation 12.1.30, the relevant Board of Study acting on the recommendation of the Board of Examiners may discount an attempt for a class where appropriate medical or other evidence has been provided.
- 12.1.35 Notwithstanding the provisions of Regulations 12.1.27 and 12.1.30, a candidate will be permitted to re-take specific classes at Level 4 or 5 to satisfy professional accreditation requirements. In these circumstances the final classification will be based solely on the student's first attempt at the assessment.
- 12.1.36 Notwithstanding the provisions of Regulations 12.1.27 and 12.1.30, a candidate who has taken either the whole or part of the Level 4 or 5 assessment will be permitted to be re-assessed in whole or in part where there are medical, personal or other circumstances which have adversely affected the student's performance. In these circumstances, permission may be granted by the Board of Examiners concerned, subject to a report of any such cases to the relevant Board of Study.

Award of Credits

12.1.37 When considering the award of credits, the relevant Board of Examiners will have regard to the requirements of Regulation 1.10.35 concerning examination marks and compensation.

12.1.38 The relevant Board of Examiners shall award credits as follows:

- (i) in years 1 – 3, the number of credits for classes passed at Levels 1, 2 and 3;
- (ii) in subsequent years, credits corresponding to the classes completed.

The relevant Board of Examiners shall award Merit or Distinction to a full-time student as follows:

- (ii) Merit will be applied where a student has achieved a credit-weighted average of 60% - 69% in their first attempt having passed all examinations.
- (iii) Distinction will be applied in Years 1-4 where a student has achieved a credit weighted average of 70% or more at the first attempt having passed all exams.

For the avoidance of doubt a pass by compensation shall be regarded as a pass but with no change to the credit weighted average.

Progress of Students

12.1.39 To proceed to the next year of a course, a full-time student must normally accumulate the minimum number of credits in accordance with the following general framework:

Progression	Minimum Number of Credits Required
First – Second Year	100
Second – Third Year	220
Third – Fourth Year	360
Fourth – Fifth Year	480

At all stages of the course, a student, in addition, must achieve an approved standard of performance with regard to level of study and academic attainment as specified in the Course Handbook.

Individual courses may specify minimum credit numbers greater than those given above in which case these shall be given in the relevant course regulations.

12.1.40 Exceptionally, the relevant Board of Study acting on the recommendation of the Board of Examiners may allow a student to proceed to the next year of their course with fewer credits than specified in Regulation 12.1.39 or in the higher progress requirements stated in that student's course regulations, although only for good cause shown.

12.1.41 A student studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits. More detailed progress regulations may be specified in individual course regulations.

12.1.42 A student studying on a part-time basis shall not normally proceed to the next year of study with more than 20 credits outstanding.

Transfer of Registration, Suspension and Withdrawal

- 12.1.43 Where a candidate has failed to satisfy the Board of Examiners, the Board of Study, in accordance with the recommendation of the Board of Examiners, may
- (i) require that registration be transferred to a degree of Bachelor with Honours or Degree of Bachelor or Diploma of Higher Education or Certificate of Higher Education (as appropriate) subject to a related course being available; or
 - (ii) suspend a student from attendance at classes but require them to undertake assessments until the required number of credits and necessary passes have been obtained to allow the student to proceed to the next year of the course; or
 - (iii) terminate the student's registration and require the student to withdraw.
- 12.1.44 Where a candidate registered for an Integrated Masters degree has satisfied the relevant Board of Examiners but requests transfer to a degree of Bachelor with Honours, Bachelor or Diploma of Higher Education or Certificate of Higher Education, the Board of Study, in accordance with the recommendation of the relevant Head of Department or Course Director or Board of Examiners, may permit registration to be transferred to a degree of Bachelor with Honours or Bachelor or Diploma of Higher Education or Certificate of Higher Education (as appropriate) subject to a related course being available.
- 12.1.45 On the recommendation of the relevant Course Director (or nominee), the Board of Study may approve transfer of a student's registration between an Integrated Masters degree and a
- (i) Certificate of Higher Education;
 - (ii) Diploma of Higher Education;
 - (iii) degree of Bachelor;
 - (iv) degree of Bachelor with Honours
- as appropriate, subject to a related course being available.
- 12.1.46 On the recommendation of the relevant Course Director (or nominee), the relevant Vice Dean Academic may permit a student to undertake voluntary suspension for the whole or part of an academic year or transfer between full-time and part-time study where available.
- 12.1.47 Notwithstanding the provisions of Regulation 12.1.30, a student who is reported to the relevant Board of Study under Regulation 12.1.23 or Regulation 5.4.2(iv) for persistent non-attendance at classes, in accordance with published Faculty procedures, may have their registration terminated and be required to withdraw from the course.
- 12.1.48 A student may also be required to withdraw from a course as a consequence of academic dishonesty or unprofessional conduct. Such a decision would be taken in consequence of a disciplinary hearing as provided for in Regulation 5.

Classification of Degree

- 12.1.49 A student may be awarded a degree, a degree with merit or a degree with distinction.
- In reaching their decision, the relevant Board of Examiners shall have regard to a student's performance against approved criteria and consider the composite mark against the following general framework:

Classification	Composite Mark
Distinction	70 -100
Merit	60 – 69
Award	50 – 59

12.1.50 A candidate who has failed to be placed in one of the classes specified in Regulation 12.1.49 may be transferred to the degree of Bachelor with Honours in accordance with Regulation 12.1.42 and may be granted exemption either in whole or in part from the assessments required for that degree. The exemption will only be granted when, in the opinion of the Board of Examiners, evidence of sufficient attainment has been provided.

Appeals Against Transfer of Registration, Suspension, Withdrawal and Degree Classification

12.1.51 A student who has been
 (i) required to transfer registration; or
 (ii) suspended from attendance at classes; or
 (iii) required to withdraw
 under the provisions of Regulations 12.1.23, 12.1.43 and 12.1.47 may appeal to the relevant Board of Study for reconsideration of the case.

12.1.52 A student may appeal to the relevant Board of Study for reconsideration of the classification of the degree awarded. Such an appeal must be submitted and the outcome of any such appeal must be decided upon before the student graduates.

12.1.53 The grounds for appeals under Regulations 12.1.51 and 12.1.52 may be any of the following:

- (i) that there were procedural irregularities in the conduct of the examination or of the assessment (including alleged administrative error of such a nature as to cause reasonable doubt as to whether the Board of Examiners would have reached the same conclusion if the alleged error had not been made); or
- (ii) that there were medical, personal or other circumstances affecting the student's performance of which the Board of Examiners were not aware when their decision was taken (an Appeals Board will take into account whether a student has met the obligations of Regulation 12.1.22); or
- (iii) that there was inadequate assessment, prejudice or bias on the part of one or more of the examiners.

Such an appeal shall be lodged in writing with the relevant Faculty Officer no later than a date specified by the Board of Study and notified in the letter informing the student of the transfer of registration or suspension or the requirement to withdraw or the degree classification. The appeal shall be supported by appropriate documentary evidence not previously available.

12.1.54 A student has an ultimate right of appeal to the Senate normally following an unsuccessful appeal to the relevant Board of Study. Such an appeal shall be lodged in writing with the Head of Governance, Management and Policy Team within six weeks of the date on the Faculty Appeal outcome letter and shall be supported by all the appropriate documentary evidence. The student will have a right of appearance, either alone or accompanied by one person, at the hearing of the appeal to the Senate.

Award

12.1.55 In order to qualify for a University of Strathclyde award, a student who has been granted exemption from earlier years of a University of Strathclyde course through credit transfer or RPL (in accord with Regulation 12.1.2) must gain from the University of Strathclyde course curriculum a minimum of 240 at Levels 4 and 5. In addition, a candidate must comply with the requirements of Ordinance 3.4.3.

12.1.56 A candidate who satisfies the conditions of the Ordinances governing the award of degrees and of the general and course regulations shall, on payment of the required fees, be entitled to receive the appropriate Integrated Masters degree. To qualify for the award of the degree, a candidate must have obtained passes in classes at all levels of the curriculum as specified in the course regulations. The graduate shall receive a degree parchment setting forth the course of study in which the degree has been granted and, if appropriate, the classification in which the graduate has been placed.

12.2

to 12.11 (Numbers not used)

For Information:

The following Course Regulations should be read in conjunction with the above General Regulations, and other University publications.

12.12 Department of Pure and Applied Chemistry

Chemistry

MChem in Chemistry

MChem in Forensic and Analytical Chemistry

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

12.12.1 The courses are at Integrated Masters level. Transfer to the relevant BSc degree is possible at any time, subject to satisfying the appropriate progress regulations.

Mode of Study

12.12.2 The courses are available by both full-time and part-time study.

Place of Study

12.12.3 The courses include an Industrial placement normally outwith the campus.

Curriculum

First Year

12.12.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 106	Chemistry: Principles and Practice 1	1	20
CH 107	Chemistry: Principles and Practice 2	1	20
CH 108	Practical and Transferable Skills	1	20
MM 116	Mathematics 1C	1	20
and either			
PH 151	Mechanics, Optics and Waves	1	20
or			
BM 102	Molecular Bioscience	1	20
or for students lacking a pass in SQA Higher Physics (or an equivalent qualification)			
PH 166	Foundation Chemistry	1	20
Elective Class(es)			20

Second Year

12.12.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 202	Inorganic Chemistry	2	20
CH 205	Practical Physical and Applied Chemistry	2	20
CH 208	Fundamental Organic Chemistry	2	20
CH 212	Physical Chemistry 1	2	20
CH 213	Forensic Trace Analysis and Analytical Chemistry	2	20
CH 214	Practical Organic and Inorganic Chemistry	2	20

Third Year

12.12.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 309	Physical Chemistry 2	3	20
CH 315	Practical Organic and Inorganic Chemistry	3	20
CH 325	Intermediate Organic Chemistry and Spectroscopy	3	20
CH 326	Inorganic Chemistry, Structures and Spectroscopy	3	20

together with classes appropriate to the chosen course:

Chemistry

40 credits including one theory class and one associated practical class chosen from:

CH 314	Practical Physical, Applied and Drug Discovery Chemistry	3	20
CH 323	Chemical Biology	3	20

OR

CH 313	Practical Physical, Applied, Forensic and Analytical Chemistry	3	20
CH 316	Analytical Chemistry and Drugs of Abuse	3	20

Students can only choose CH 323 if they already have BM 102 Molecular Bioscience.

Forensic and Analytical Chemistry

CH 313	Practical Physical, Applied, Forensic and Analytical Chemistry	3	20
CH 316	Analytical Chemistry and Drugs of Abuse	3	20

Fourth Year

12.12.7 All students shall normally undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
CH 450	Distance Learning Assignment	4	40
and either			
CH 451	Industrial Placement	4	80
or			
CH 452	Research Placement	4	80
or			
CH 462	Knowledge Exchange Placement	4	80

Fifth Year

12.12.8 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
<i>Chemistry</i>			
CH 566	MChem in Chemistry	5	120

Forensic and Analytical Chemistry

CH 567	MChem in Forensic and Analytical Chemistry	5	120
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Each of the above classes comprises:

CH 552	Core Chemistry	5	40
CH 569	MChem Project and Dissertation	5	40

together with a class in the relevant subject area:

CH 553	Chemistry Specialisation	5	40
or			
CH 554	Forensic and Analytical Chemistry Specialisation	5	40

Curriculum (Part-time study)

12.12.9 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

12.12.10 In order to progress to the second year of the course a student must have accumulated at least 100 credits from the course curriculum including those for the classes *CH 106 Chemistry: Principles and Practice 1*, *CH 107 Chemistry: Principles and Practice 2*, *CH 108 Practical and Transferable Skills* and *MM 116 Mathematics 1C*.

12.12.11 In order to progress to the third year of the course, a student must have accumulated at least 240 credits from the course curriculum including normally 120 at Level 2 from Chemistry classes.

12.12.12 In order to progress to the fourth year of the course, a student must normally have accumulated no fewer than 360 credits from the course curriculum including at least 60 Level 3 credits from third year Chemistry classes.

12.12.13 In order to progress to the fifth year of the course, a student must normally have accumulated no fewer than 440 credits from the course curriculum including 80 credits at Level 4 from the fourth year Chemistry classes. (*Note: the assignment for the class CH 451 is not submitted until after the progress decision is taken.*)

Final Assessment and Honours Classification

12.12.14 On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits under the class code *CH 566* or *CH 567* as appropriate.

12.12.15 The final classification for the degree of MChem in the chosen course will be based on:

- (i) the first assessed attempt at compulsory and specified optional classes taken in the third, fourth and fifth years;
- (ii) if appropriate, an oral examination.

Award

12.12.16 **MChem:** In order to qualify for the award of the degree of MChem in the chosen course, a candidate must have accumulated no fewer than 600 credits from the course curriculum.

12.12.17 Notwithstanding Regulation 12.1.49, the degree will be classified in accordance with Regulation 11.1.50.

Transfer

12.12.18 A student who fails to satisfy the progress or award requirements for the degree of MChem may be transferred to the BSc with Honours in the chosen course.

12.12.19
to 12.12.20 (Numbers not used).

Chemistry with Drug Discovery

MChem in Chemistry with Drug Discovery

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

12.12.21 The course is at Integrated Masters level. Transfer to the BSc in Chemistry with Drug Discovery is possible at any time, subject to satisfying the appropriate progress requirements.

Mode of Study

12.12.22 The course is available by both full-time and part-time study.
8

Place of Study

12.12.23 The course includes an Industrial Placement normally outwith the campus.

Curriculum

First Year

12.12.24 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 102	Molecular Bioscience	1	20
CH 106	Chemistry: Principles and Practice 1	1	20
CH 107	Chemistry: Principles and Practice 2	1	20
CH 109	Practical and Transferable Skills for Drug Discovery	1	10
MM 116	Mathematics 1C	1	20
MP 117	Molecular Properties	1	20
Elective Class			10

Second Year

12.12.25 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CH 202	Inorganic Chemistry	2	20
CH 205	Practical Physical and Applied Chemistry	2	20
CH 208	Fundamental Organic Chemistry	2	20
CH 212	Physical Chemistry 1	2	20
CH 214	Practical Organic and Inorganic Chemistry	2	20
CH 217	Physical and Quantitative Analytical Chemistry	2	20
MP 217	Pharmaceutics	2	20

Elective Class 10

Third Year

12.12.26 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 309	Physical Chemistry 2	3	20
CH 314	Practical Physical, Applied and Drug Discovery Chemistry	3	20
CH 315	Practical Organic and Inorganic Chemistry	3	20
CH 323	Chemical Biology	3	20
CH 325	Intermediate Organic Chemistry and Spectroscopy	3	20
CH 326	Inorganic Chemistry, Structures and Spectroscopy	3	20

Fourth Year

12.12.27 All students shall normally undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 450	Distance Learning Assignment	4	40
CH 451	Industrial Placement	4	80
or			
CH 452	Research Placement	4	80
or			
CH 462	Knowledge Exchange Placement	4	80

Fifth Year

12.12.28 All students shall undertake classes amounting to no fewer than 120 credits as follows:

	Level	Credits
CH 568 Chemistry with Drug Discovery*	5	120

*CH 568 comprises:

CH 541	Core Chemistry for Drug Discovery	5	40
CH 542	Drug Discovery Specialisation	5	40
CH 569	MChem Project and Dissertation	5	40

Curriculum (Part-time study)

12.12.29 Part-time students will normally take classes amounting to 60 credits in each year of study.

Progress

12.12.30 In order to progress to the second year of the course a student must have accumulated at least 100 credits from the course curriculum including normally those for the classes *CH 106 Chemistry: Principles and Practice 1*, *CH 107 Chemistry: Principles and Practice 2*, *CH 109 Practical and Transferable Skills for Drug Discovery* and *MM 116 Mathematics 1C*.

- 12.12.31 In order to progress to the third year of the course, a student must have accumulated at least 240 credits from the course curriculum including normally 120 at Level 2 from the second year Chemistry classes.
- 12.12.32 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the course curriculum including at least 60 at Level 3 from third year Chemistry classes.
- 12.12.33 In order to progress to the fifth year of the course, a student must normally have accumulated no fewer than 440 credits from the course curriculum including 80 at Level 4 from the fourth year compulsory classes. (*Note: the assignment for the class CH 450 is not submitted until after progress decision is taken.*)

Final Assessment and Classification

- 12.12.34 On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits under the class code *CH 568*.
- 12.12.35 The final classification for the degree of MChem will be based on:
- (i) the first assessed attempt at compulsory and specified optional classes taken in the third, fourth and fifth years;
 - (ii) if appropriate, an oral examination.

Award

- 12.12.36 **MChem:** In order to qualify for the award of the degree of MChem in Chemistry with Drug Discovery, a candidate must have accumulated no fewer than 610 credits from the course curriculum.
- 12.12.37 Notwithstanding Regulation 12.1.49, the degree will be classified in accordance with Regulation 11.1.50.

Transfer

- 12.12.38 A student who fails to satisfy the progress or award requirements for the degree of MChem may be transferred to the BSc with Honours in Chemistry with Drug Discovery.

12.13 Department of Computer and Information Sciences

Computer Science

MEng in Computer Science

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

12.13.1 The course is at Integrated Masters level.

Mode of Study

12.13.2 The course is available by full-time study only.

Place of Study

12.13.3 The course includes an Industrial Placement.

Curriculum

12.13.4 First Year

All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 103	Machines, Languages and Computation	1	20
CS 104	Information and Information Systems	1	20
CS 105	Programming Foundations	1	20
CS 106	Computer Systems and Organisation	1	20
CS 1XX	Combinatorics for Computer Science 1	1	10
CS 1YY	Topics in Computing 1	1	10
MS 151	Harnessing Technology for Business	1	20

Second Year

12.13.5 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
CS 207	Advanced Programming	2	20
CS 208	Logic and Algorithms	2	20
CS 209	User and Data Modelling	2	20
CS 210	Computer Systems and Architecture	2	20
CS 211	Professional Issues in Computing	2	10
MS 204	Technological and Organisation Innovation	2	20
Either			
CS 212	Topics in Computing 2	2	10
Or			
CS 215	Combinatorics for Computer Science 2	2	10

Third Year

12.13.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CS 308	Building Software Systems	3	20
CS 313	Computer Systems and Concurrency	3	20

M9 352	Internet Law	3	20
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Elective Class(es)			20
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Optional Classes

40 credits chosen from: Lists A and B including at least 20 credits from List A and at most 20 credits from List B:

List A

CS 311	Programming Language Definition and Implementation	3	20
CS 312	Web Applications Development	3	20
CS 316	Functional Programming	3	20

List B

CS 309	Computer Graphics	3	20
CS 310	Foundations of Artificial Intelligence	3	20

Industrial Placement 1

12.13.7 All students shall normally undertake the class CS 416 *Industrial Placement 1* between the third and fourth years. This class shall consist of a placement of approximately 12 weeks on work approved by the Course Director and shall count for 20 credits at Level 4 in the calculation of the final degree classification.

Fourth Year

12.13.8 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
CS 418	Computer Science*	4	80

*CS 418 *Computer Science* comprises:

CS 408	Individual Project	4	40
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together with 80 credits chosen from:

CS 409	Software Architecture and Design	4	20
CS 410	Advanced Functional Programming	4	20
CS 411	Theory of Computation	4	20
CS 412	Information Access and Mining	4	20
CS 413	Embedded Systems	4	20
CS 414	Digital Forensics	4	20

Such other Level 4 classes as may be approved by the Course Director.

Industrial Placement 2

12.13.9 Students who have already taken the class CS 416 *Industrial Placement 1*, may additionally undertake the class CS 552 *Industrial Placement 2* between the fourth and fifth years. This class shall consist of a placement of approximately 12 weeks on work approved by the Course Director and shall count for 20 credits at Level 5 in the calculation of the final degree classification.

Fifth Year

12.13.10 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
CS 555 Computer Science*	5	80
<i>CS 555 Computer Science</i> comprises:		
CS 546 Group Project	5	40
together with 80 credits chosen from:		
CS 547 Advanced Topics in Software Engineering	5	20
CS 548 Designing Usable Systems	5	20
CS 549 Distributed Information Systems	5	20
CS 551 Mobile Software and Applications	5	20

and Optional classes listed in Regulation 19.13.94.

Such other Level 5 classes as may be approved by the Course Director.

Progress

12.13.11 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum which must include a non-compensated Pass for the class *CS 105 Programming Foundations*.

12.13.12 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including at least 100 credits at Level 2 which must include a non-compensated Pass for the class *CS 207 Advanced Programming*.

12.13.13 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including at least 100 credits at Level 3.

12.13.14 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the course curriculum including those for the class *CS 408 Individual Project* and normally for the class *CS 416 Industrial Placement 1*.

Final Classification

12.13.15 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *CS 420 Computer Science*.

12.13.16 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *CS 555 Computer Science*.

12.13.17 The final classification for the degree of MEng in Computer Science will normally be based on:

- (i) the first assessed attempt at all classes taken at Levels 4 and 5;
- (ii) If appropriate, an oral examination.

Award

12.13.18 **MEng:** In order to qualify for the award of the degree of MEng in Computer Science a candidate must have accumulated no fewer than 620 credits from the course curriculum including those for the classes *CS 408 Individual Project*, *CS 546 Group Project*, and *CS 416 Industrial Placement 1*.

Transfer

12.13.19 A candidate who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to the degree of BSc with Honours in Computer Science.

12.14 (Number not used)

12.15 Department of Mathematics and Statistics

Mathematics

MMath in Mathematics

MMath in Mathematics and Statistics

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

- 12.15.1 The course is at Integrated Masters level. Transfer to the BSc with Honours in Mathematics is possible at any time subject to satisfying the appropriate progress requirements. Transfer to the BSc with Honours in Mathematics and Statistics is possible from the end of third year, subject to satisfying the appropriate progress requirements.

Mode of Study

- 12.15.2 The course is available by full-time and part-time study.

Curriculum (Full-time study)

First Year

- 12.15.3 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 101	Introduction to Calculus	1	20
MM 102	Applications of Calculus	1	20
MM 103	Geometry and Algebra with Applications	1	20
MM 104	Statistics and Data Presentation	1	20
MM 105	Applications of Mathematics	1	20
Elective Class(es)			20

Second Year

- 12.15.4 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 201	Linear Algebra and Differential Equations	2	20
MM 202	Advanced Calculus	2	20
MM 203	Applicable Analysis	2	20
MM 204	Probability and Statistical Inference	2	20
MM 205	Introduction to Newtonian Mechanics	2	20
MM 206	Mathematical and Statistical Computing	2	20

Third Year

- 12.15.5 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 300	Complex Variables and Integral Transforms	3	20

MM 301	Linear Algebra	3	20
MM 302	Differential Equations	3	20
Optional Classes			
60 credits chosen from			
MM 303	Applicable Analysis 2	3	20
MM 304	Inference and Regression Modelling	3	20
MM 305	Mechanics of Rigid Bodies and Fluids	3	20
MM 306	Numerical Analysis	3	20
MM 307	Stochastics and Financial Econometrics	3	20

Fourth Year

12.15.6 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
<i>Mathematics</i>		
MM 400 Mathematics*	4	120

* MM 400 Mathematics comprises:

MM 401	Communicating Mathematics and Statistics	4	20
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and classes amounting to 100 credits chosen from lists A and B below.

<i>Mathematics and Statistics</i>			
MM 410	Mathematics and Statistics**	4	120

** MM 410 Mathematics and Statistics comprises:

MM 401	Communicating Mathematics and Statistics	4	20
MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 407	Applied Statistics in Society	4	20

and classes amounting to 40 credits chosen from List B below.

Optional Classes

List A

MM 402	Modelling and Simulation with Applications to Financial Derivatives	4	20
MM 404	Statistical Modelling and Analysis	4	20
MM 407	Applied Statistics in Society	4	20

List B***

MM 403	Applicable Analysis 3	4	20
MM 405	Fluids and Waves	4	20
MM 406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
MM 408	Mathematical Biology and Marine Population		

	Modelling	4	20
MM 409	Mathematical Introduction to Networks	4	20
MM 411	Elasticity and Complex Materials	4	20
MM 412	Optimization: Theory and Practice	4	20
MM 413	Statistical Mechanics	4	20
MM 414	Dynamical Models in Epidemiology	4	20

** Not all of these classes will be available every year

Fifth Year

12.15.8 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Class	Level	Credits
<i>Mathematics</i>		
MM 500 Mathematics*	5	120

* *MM 500 Mathematics* comprises a Project and Level 5 classes chosen from the lists below:

Compulsory Class	Level	Credits
MM 501 Project	5	40

in Mathematics and classes amounting to 80 credits chosen from the list below:

<i>Mathematics and Statistics</i>		
MM 510 Mathematics and Statistics**	5	120

** *MM 510 Mathematics and Statistics* comprises

MM 501 Project	5	40
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in Statistics and classes amounting to 80 credits chosen from the list below.

Optional Classes***

MM 502	Modelling and Simulation with Applications to Financial Derivatives	5	20
MM 503	Applicable Analysis 3	5	20
MM 504	Statistical Modelling and Analysis	5	20
MM 505	Fluids and Waves	5	20
MM 506	Finite Element Methods for Boundary Value Problems and Approximation	5	20
MM 507	Applied Statistics in Society	5	20
MM 508	Mathematical Biology and Marine Population Modelling	5	20
MM 509	Mathematical Introduction to Networks	5	20
MM 511	Elasticity and Complex Materials	5	20
MM 512	Optimization: Theory and Practice	5	20
MM 513	Statistical Mechanics	5	20
MM 514	Dynamical Models in Epidemiology	5	20
MM 515	Topics in Applied Analysis	5	20

MM 516	Topics in Applied Statistics	5	20
MM 517	Topics in Applied Mathematics	5	20
MM 518	Topics in Numerical Analysis	5	20
MM 519	Topics in Biological and Ecological Modelling	5	20

***Not all of these classes will be available every year.

Curriculum (Part-time study)

12.15.9 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

12.15.10 In order to progress to the second year of the course, a student must have accumulated at least 120 credits from the course curriculum, including those for the classes *MM 101 Introduction to Calculus* and *MM 102 Applications of Calculus*.

12.15.11 In order to progress to the third year of the course, a student must have accumulated at least 240 credits from the course curriculum including 100 credits at Level 2 or above and those for the classes *MM201 Linear Algebra and Differential Equations* and *MM202 Advanced Calculus*.

12.15.12 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 120 credits at Level 3 or above.

12.15.13 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the course curriculum including 120 credits at Level 4 or above.

Progress (Part-time study)

12.15.14 Students studying on a part-time basis must satisfy the appropriate progress requirements following each period of 120 credits.

Final Assessment and Classification

12.15.15 On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits under the class code *MM 500 Mathematics* or the class code *MM 510 Mathematics and Statistics*.

12.15.16 The final classification for the degree of MMath in Mathematics and MMath in Mathematics and Statistics will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes at Levels 4 and 5 taken in the fourth and fifth years;
- (ii) if appropriate, an oral examination.

Award

12.15.17 **MMath:** In order to qualify for the award of the degree of MMath in Mathematics or MMath in Mathematics and Statistics, a candidate must have accumulated no fewer than 600 credits from the course curriculum.

Transfer

12.15.18 A student who fails to satisfy the progress or award requirements for the degree of MMath in Mathematics or MMath in Mathematics and Statistics may be transferred to the BSc with Honours in Mathematics or the BSc with Honours in Mathematics and Statistics.

12.16 (Numbers not used)

12.17 Department of Physics

Physics

MPhys in Physics

MPhys in Physics with Specialisation

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

12.17.1 The courses are at Integrated Masters level. Transfer to the BSc in Physics is possible at any time subject to satisfying the appropriate course regulations.

Mode of Study

12.17.2 The courses are available by both full-time and part-time study.

Credit Transfer and Recognition of Prior Learning

12.17.3 Regulations 12.1.1 and 12.1.2 shall apply.
In addition, direct entry to year 4 of the course may be granted to applicants who possess

- (i) a first cycle Bologna degree in Physics meeting an approved standard of performance with regard to level of study and academic attainment; or
- (ii) a qualification deemed by the Head of Department (or nominee) to be equivalent to (i) above; and
- (iii) an approved standard of performance in a recognised test in English as a foreign language.

Such applicants will be deemed to possess 360 credits.

Place of Study

12.17.4 The optional Industrial Placement, normally taken during the summer vacation following third year, is expected to be completed off campus.

Curriculum (Full-time study)

First Year

12.17.5 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20
PH 150	Experimental Physics	1	20
PH 151	Mechanics, Optics and Waves	1	20
PH 152	Quantum Physics and Electromagnetism	1	20
Elective Class(es)			20

Second Year

12.17.6 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 211	Mathematics 3B	2	20
PH 250	Experimental Physics	2	20
PH 251	Mechanics, Optics and Waves	2	20
PH 252	Quantum Physics and Electromagnetism	2	20
PH 254	Computational Physics	2	20
PH 258	Condensed Matter Physics	2	10
PH 259	Gases and Liquids	2	10

Third Year

12.17.7 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 311	Mathematics 4B	3	20
PH 350	Experimental Physics	3	40
PH 352	Quantum Physics and Electromagnetism	3	20
PH 355	Physics Skills	3	20
PH 358	Condensed Matter Physics	3	10
PH 359	Statistical Physics	3	10

12.17.8 Students may, with the approval of the Adviser of Study, also undertake a project during the summer vacation following Third Year as follows:

Optional Class

PH 465	Industrial Project	4	20
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Fourth Year

12.17.9 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PH 499	Physics*	4	120

*PH 499 Physics comprises

PH 450	Project	4	40
PH 451	Physics Skills	4	20

together with 60 credits chosen from:

PH 452	Topics in Physics	4	20
PH 453	Topics in Solid State Physics	4	20
PH 454	Topics in Nanoscience	4	20
PH 455	Topics in Photonics	4	20
PH 456	Topics in Complex Systems in Physics	4	20
PH 457	Topics in Theoretical Physics	4	20
PH 458	Topics in Quantum Physics	4	20
PH 459	Topics in Atomic, Molecular and Nuclear Physics	4	20

12.17.10 Students may, with the approval of the Adviser of Study, also undertake a project during the summer vacation following Fourth Year as follows:

Optional Class

PH 465	Industrial Project	4	20
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Fifth Year

12.17.11 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
PH 599	Physics*	5	120

*PH 599 comprises

PH 550	Project	5	40
PH 551	Research Skills	5	20

together with 60 credits chosen from:

PH 552	Advanced Topics in Physics	5	20
PH 553	Advanced Topics in Solid State Physics	5	20
PH 554	Advanced Topics in Nanoscience	5	20
PH 555	Advanced Topics in Photonics	5	20
PH 556	Advanced Topics in Complex Systems	5	20
PH 557	Advanced Topics in Theoretical Physics	5	20
PH 558	Advanced Topics in Quantum Physics	5	20
PH 559	Advanced Topics in Nuclear Physics	5	20
PH 560	Advanced Topics in Astrophysics	5	20

Curriculum (Part-time study)

12.17.12 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

12.17.13 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

12.17.14 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.

12.17.15 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum.

12.17.16 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the course curriculum.

Progress (Part-time study)

12.17.17 Part-time students must satisfy the appropriate progress requirements following each period of 120 credits.

Final Assessment and Classification

12.17.18 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *PH 499*.

12.17.19 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *PH 599*.

12.17.20 The final classification for the degree of MPhys will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes at Levels 4 and 5;
 - (ii) if appropriate, an oral examination.
- 12.17.21 Notwithstanding Regulation 12.1.49 the degree in MPhys will be classified in accordance with Regulation 11.1.50.
- Award**
- 12.17.22 **MPhys:** In order to qualify for the award of the degree of MPhys in Physics, a candidate must have accumulated no fewer than 600 credits from the course curriculum.
- 12.17.23 **MPhys with Specialisation:** In order to qualify for the award of the degree of MPhys in Physics with Specialisation in a given topic a candidate must have undertaken *PH 450 Project* and *PH 550 Project* in an area related to the specialisation. In addition to the requirements of Regulation 12.17.21, a candidate must have undertaken 40 credits at Level 4 and 40 credits at Level 5 in subjects related to the specialisation.
- Transfer**
- 12.17.24 A student who fails to satisfy the progress or award requirements for the degree of MPhys may be transferred to the degree of BSc with Honours in Physics.
- 12.18
to 12.21 (Numbers not used.)

12.22 Strathclyde Institute of Pharmacy and Biomedical Sciences

Pharmacy

MPharm in Pharmacy

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of Degree

- 12.22.1 The course is offered at Integrated Masters level. Transfer to the BSc in Pharmaceutical Sciences may be possible at any time subject to satisfying the appropriate progress regulations. The MPharm is normally completed in four years. This degree is also undertaken in an accelerated format (3.5 years) by certain students from the International Medical University (IMU) in Malaysia under a collaborative agreement between the University of Strathclyde and IMU.

Place of Study

- 12.22.2 The course includes time undertaken in a clinical attachment scheme at associated hospitals for which students must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update.

Mode of Study

- 12.22.3 The course is normally available by full-time study only.

Curriculum

First Year

- 12.22.4 All students shall undertake classes amounting to 150 credits as follows:

Compulsory Classes		Level	Credits
13 163	Foundation Chemistry for Pharmacists	1	20
MM 110	Mathematics 1P	1	10
MP 100	Foundation Pharmacy	1	20
MP 117	Molecular Properties	1	20
MP 207	Physiology 1	2	20
MP 208	Physiology 2	2	20
MP 210	Physiology 3	2	20

Elective Class(es) 20

Second Year

- 12.22.5 All students shall undertake classes amounting to 150 credits as follows:

Compulsory Classes		Level	Credits
MP 201	Health Promotion	2	20
MP 202	Pharmaceutical Microbiology	2	20
MP 216	Medicinal Chemistry	2	20
MP 217	Pharmaceutics	2	20
MP 304	Drugs and Disease 2	3	10
MP 308	Fundamentals of Pharmacology	3	20

MP 309	Drugs and Disease 1	3	20
MP 310	Pharmacy Practice 1	3	20

Third Year

12.22.6 All students shall undertake classes amounting to 150 credits as follows:

Compulsory Classes		Level	Credits
MP 300	Pharmacy Practice 2	3	20
MP 317	Clinical Pharmacokinetics	3	20
MP 319	Absorption & Fate	3	20
MP 411	Drugs and Disease 3	4	20
MP 412	Research Methods	4	10
MP 414	Medicines Manufacture & Quality Control 1	4	20
MP 415	Medicines Manufacture & Quality Control 2	4	20
MP 510	Pharmacy Practice 3	4	20

Fourth Year

12.22.7 All students shall undertake classes amounting to 150 credits as follows:

Compulsory Classes		Level	Credits
MP 403	Drug Delivery Systems	4	10
MP 507	Research Project	5	40
MP 508	Pharmaceutical Care*	5	40
MP 509	Clinical Pharmacology and Prescribing	5	20
MP 511	Bench to Bedside	5	40

* *MP 508 Pharmaceutical Care* includes some 34 hours undertaken in a clinical attachment scheme.

Progress

12.22.8 In order to progress to the second year of the course, a student must have accumulated at least 130 credits from the course curriculum including those for the classes *13 163 Foundation Chemistry for Pharmacists*, *MP 100 Foundation Pharmacy*, *MP 103 Molecular Properties*, *MP 207 Physiology 1*, *MP 208 Physiology 2* and *MP 210 Physiology 3*.

12.22.9 In order to progress to the third year of the course, a student must have accumulated at least 280 credits from the course curriculum including those for all the compulsory classes.

12.22.10 In order to progress to the fourth year of the course, a student must have accumulated at least 450 credits from the course curriculum including those for all the compulsory classes.

Final Classification

12.22.11 The final classification for the degree of MPharm will normally be based on:

- (i) the first assessed attempt at classes at levels four and five;
- (ii) if appropriate, an oral examination.

Award

12.22.12 **MPharm:** In order to qualify for the award of the degree of MPharm in Pharmacy, a student must have accumulated no fewer than 600 credits from the course curriculum.

Transfer

- 12.22.13 A student who fails to satisfy the progress or award requirements for the degree of MPharm in Pharmacy may be transferred to the degree of BSc in Pharmaceutical Sciences.
- 12.22.14 (Number not used.)

Regulations applicable for students entering the Collaborative Programme from December 2007 onwards.

Collaborative Programme

- 12.22.15 The degree of MPharm in Pharmacy is also offered on a twinning basis in conjunction with International Medical University, Malaysia (IMU). The study pathway will follow one of two routes hereafter referred to as the '2+2' and 'standard collaborative' options. The material pertaining to the first and second years of study is arranged on a semester basis as detailed in Regulations 12.22.17 to 12.22.19 and not as given in Regulations 12.22.4 to 12.22.5. For students following the Standard Collaborative Option, the material pertaining to the third year of study is arranged on a semester basis as detailed in Regulations 12.22.20 to 12.22.22 rather than as given in Regulation 12.22.6. For students following the 2+2 Option, the material pertaining to the third year of study is given in Regulation 12.22.6. IMU classes are equivalent to those offered within the University. The code for the relevant University class is shown in brackets in the title of the equivalent class.

In the case of students on the Standard Collaborative Programme, semesters 1 - 5 will be taught at the International Medical University.

In the case of students on the 2+2 Collaborative Programme, semesters 1 – 4 will be taught at the International Medical University.

Collaborative Programme - Semester One

- 12.22.16 All classes are given and examined at the International Medical University, Malaysia, in the period December to April. All students shall undertake classes amounting to 70 credits as follows:

Compulsory Classes		Level	Credits
MC 100	Mathematics 1P (MM 110)	1	10
MC 104	Foundation Chemistry for Pharmacists (13 163)	1	20
MC 204	Physiology 2 (MP 208)	2	20
MC 209	Physiology 1 (MP 207)	2	20

Collaborative Programme - Semester Two

- 12.22.17 All classes are given and examined at the International Medical University, Malaysia, in the period May to September. All students shall undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credits
MC 109	English Studies	1	10
MC 115	Foundation Pharmacy (MP 100)	1	20
MC 116	Composition Skills	1	10
MC 117	Molecular Properties (MP 103)	1	20
MP 210	Physiology 3	2	20

Collaborative Programme - Semester Three

12.22.18 All classes are given and examined at the International Medical University, Malaysia, in the period October to March. All students shall undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credits
MC 214	Pharmaceutical Microbiology (MP 202)	2	20
MC 216	Medicinal Chemistry (MP 204)	2	20
MC 217	Pharmaceutics (MP 200)	2	20
MC 300	Fundamentals of Pharmacology (MP 308)	3	20

Collaborative Programme - Semester Four

12.22.19 All classes are given and examined at the International Medical University, Malaysia, in the period April to August. All students shall undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credits
MC 215	Health Promotion (MP 201)	2	20
MC 305	Drugs and Disease 1 (MP 309)	3	20
MC 311	Pharmacy Practice 1 (MP 310)	3	20
MC 319	Absorption and Fate (MP 301)	3	20

All students taking the 2+2 option will omit the class *MC 319 Absorption and Fate* in this Semester with associated reduction in credit total.

Standard Collaborative Programme - Semester Five

12.22.20 All classes are given and examined at the International Medical University, Malaysia, in the period November to May. All students shall undertake classes amounting to 80 credits as follows:

Compulsory Classes		Level	Credits
MC 314	Pharmacy Practice 2 (MP 300)	3	20
MC 317	Clinical Pharmacokinetics (MP 305)	3	20
MC 318	Drugs and Disease 2 (MP 410)	3	10
MC 411	Drugs and Disease 3 (MP 411)	4	20
MC 412	Research Methods (MP 412)	4	10

Standard Collaborative Programme – Semester Six

12.22.21 All classes are given and examined at the University of Strathclyde, in the period June to September. All students shall undertake classes amounting to 60 credits as follows:

Compulsory Classes		Level	Credits
MC 414	Medicines Manufacture & Quality Control 1 (MP 408)	4	20
MC 415	Medicines Manufacture & Quality Control 2 (MP 409)	4	20
MC 4XX	Pharmacy Practice 3 (MP 510)	4	20

2+2 Collaborative Programme – Third Year

- 12.22.22 All students shall undertake classes amounting to no fewer than 150 credits as detailed in Regulation 12.22.6. All classes are given and examined at the University of Strathclyde, in the period September to June.

Collaborative Programme - Final Year

- 12.22.23 All students shall undertake classes amounting to no fewer than 150 credits as detailed in Regulation 12.22.7.
All classes are given and examined at the University of Strathclyde, in the period September to June.

Collaborative Programme - Progress

- 12.22.24 In order to progress to semester two, a student must have accumulated at least 50 credits from the course curriculum.
- 12.22.25 In order to progress to semester three, a student must have accumulated at least 130 credits from the course curriculum including those for all classes from semester one.
- 12.22.26 In order to progress to semester four, a student must have accumulated at least 220 credits from the course curriculum including those for all classes from semester two.
- 12.22.27 In order to progress to semester five, a student following the Standard Collaborative Option must have obtained at least 300 credits from the course curriculum including those for all classes from semester three.
- 12.22.28 In order to progress to semester six, a student following the Standard Collaborative Option must have obtained 390 credits from the course curriculum.
- 12.22.29 In order to progress to the third year of the course, a student following the 2+2 Option must have obtained 300 credits from the course curriculum. In addition, a student following the 2+2 Option, must have achieved an approved standard of performance.
- 12.22.30 In order to progress to the final year of the course a student must normally have accumulated 450 credits from the course curriculum.

Collaborative Programme - Award

- 12.22.31 See Regulation 12.22.12.

- 12.22.32
to 12.22.40 Numbers not used

Biomedical Sciences

MSci in Biochemistry

MSci in Immunology

MSci in Microbiology

MSci in Pharmacology

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

12.22.41 The courses are at Integrated Masters level. Students may transfer into the MSci from a relevant BSc subject to satisfying the progress regulations. Transfer to a relevant BSc degree is possible at any time, subject to satisfying the appropriate progress regulations.

Mode of Study

12.22.42 The courses are available by both full-time and part-time study.

Curriculum (Full-time study)

First Year

12.22.43 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 101	Foundation Bioscience and Statistics	1	20
BM 102	Molecular Bioscience	1	20
BM 103	Biology of Organisms	1	20
BM 104	Practical Bioscience and Skills Development 1	1	20
CH 105	Chemistry for Bioscience	1	20
Elective Class(es)			20

Second Year

12.22.44 All full-time students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BM 201	Introduction to Infection and Immunity	2	20
BM 202	Nutritional Biochemistry and Metabolism	2	20
BM 203	Cell and Molecular Biology	2	20
BM 204	Practical Bioscience and Skills Development 2	2	20
BM 205	Human Physiology	2	20
CH 201	Bio-organic Chemistry	2	20

Third Year

12.22.45 All full-time students shall undertake classes amounting to 120 credits:

Compulsory Classes		Level	Credits
BM 310	Laboratory Methods and Skills Development	3	40

together with classes appropriate to the chosen course:

Biochemistry

Compulsory Classes

BM 305	Clinical Biochemistry and Molecular Genetics	3	20
BM 306	Proteins and Enzymes	3	20

Immunology

Compulsory Classes

BM 301	Fundamental Immunology	3	20
BM 302	Intermediate Immunology	3	20

Microbiology

Compulsory Classes

BM 303	Fundamental Microbiology	3	20
BM 304	Intermediate Microbiology	3	20

Pharmacology

Compulsory Classes

BM 307	Fundamentals of Pharmacology	3	20
BM 308	Drugs and Disease 1	3	20

Optional Classes

A further 40 credits in one subject from the classes listed in this regulation

Fourth Year

12.22.46

All full-time students shall undertake classes amounting to 120 credits choosing two subject combinations from the following:

Compulsory Classes		Level	Credits
BM 401	Research in Biomedical Science	4	40

together with classes appropriate to the chosen course:

Biochemistry

Compulsory Classes

BM 406	Honours Biochemistry 1	4	20
BM 407	Honours Biochemistry 2	4	20

Immunology

Compulsory Classes

BM 402	Honours Immunology 1	4	20
BM 403	Honours Immunology 2	4	20

Microbiology

Compulsory Classes

BM 404	Honours Microbiology 1	4	20
BM 405	Honours Microbiology 2	4	20

Pharmacology

Compulsory Classes

BM 408	Honours Pharmacology 1	4	20
BM 409	Honours Pharmacology 2	4	20

Optional Classes

A further 40 credits in one subject from the classes listed in this regulation

Fifth Year

12.22.47 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Class		Level	Credits
<i>Biochemistry</i>			
BM 503	MSci in Biochemistry	5	120
<i>Immunology</i>			
BM 502	MSci in Immunology	5	120
<i>Microbiology</i>			
BM 504	MSci in Microbiology	5	120
<i>Pharmacology</i>			
BM 501	MSci in Pharmacology	5	120

Each of the above classes comprises:

Compulsory Classes

MP 931	Generic Biomedical and Pharmaceutical Research Skills	5	20
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together with the class appropriate to the chosen course:

Biochemistry

BM 505	MSci Biochemistry Project and Thesis	5	80
BM 509	Research Topics in Biochemistry	5	20

Immunology

BM 506	MSci Immunology Project and Thesis	5	80
BM 510	Research Topics in Immunology	5	20

Microbiology

BM 507	MSci Microbiology Project and Thesis	5	80
BM 511	Research Topics in Microbiology	5	20

Pharmacology

BM 508	MSci Pharmacology Project and Thesis	5	80
BM 512	Research Topics in Pharmacology	5	20

Curriculum (Part-time study)

12.22.48 In each academic year, a student studying on a part-time basis shall normally undertake a curriculum of no fewer than 60 credits chosen from the appropriate full-time curriculum.

Progress (Full-time study)

- 12.22.49 In order to progress to the second year of the course, a student must normally have accumulated at least 100 credits from the course curriculum including no fewer than 80 credits from the first year compulsory classes.
- 12.22.50 In order to progress to the third year of the course, a student must normally have accumulated at least 240 credits from the course curriculum including no fewer than 120 credits from the second year compulsory classes.
- 12.22.51 In order to progress to the fourth year of the course, a student must normally have accumulated at least 360 credits from the course curriculum including no fewer than 120 credits from the third year curriculum. In addition, a student must have achieved an approved standard of performance with regard to level of study and academic attainment.
- 12.22.52 In order to progress to the fifth year of the course, a student must normally have accumulated at least 480 credits from the course curriculum including no fewer than 120 credits from the fourth year curriculum. In addition, a student must have achieved an approved standard of performance with regard to level of study and academic attainment.

Progress (Part-time study)

- 12.22.53 In order to progress to the next full-time equivalent year of the course, a part-time student must normally satisfy the appropriate progress requirements for full-time study.
- 12.22.54 In any one academic year, a part-time student shall not normally carry more than 20 outstanding credits from one academic year to the next.

Final Assessment and Degree Classification

- 12.22.55 On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits under the class code BM501, BM502, BM503 or BM504 as appropriate.
- 12.22.56 The final classification will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes in the third, fourth and fifth years;
 - (ii) if appropriate, an oral examination.

Award

- 12.22.57 **MSci:** In order to qualify for the award of the degree of MSc in the chosen course, a candidate must have accumulated no fewer than 600 credits from the course curriculum.

Transfer

- 12.22.58 A student who fails to satisfy the progress or award requirements for the degree of MSci may be transferred to the BSc with Honours in an appropriate Joint Honours combination of subjects based on 3rd and 4th Year options.

12.22.59
to

- 12.22.60 (Numbers not used)

Pharmacy

MSci in Pharmacy

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of Degree

- 12.22.61 The course is offered at Integrated Masters level. The degree is undertaken in an articulated and accelerated format (4.5 years) by certain students from an approved overseas academic institution with which the University of Strathclyde has an appropriate Memorandum of Agreement.

Place of Study

- 12.22.62 The first seven semesters of study will be undertaken at the approved overseas institution. The final three semesters of study including a summer semester will be undertaken at Strathclyde

Mode of Study

- 12.22.63 The course is normally available by full-time study only.

Curriculum

First Year

- 12.22.64 All students shall undertake all classes at the overseas institution which constitute the first year of the approved and recognised curriculum which is at least equivalent to 120 credits at Level 1.

Second Year

- 12.22.65 All students shall undertake all classes at the overseas institution which constitute the second year of the approved and recognised curriculum which is at least equivalent to 120 credits at Level 2.

Third Year

- 12.22.66 All students shall undertake all classes at the overseas institution which constitute the third year of the approved and recognised curriculum at least equivalent to 120 credits at Level 3

Fourth Year

- 12.22.67 All students shall undertake classes which constitute the fourth year of the approved and recognized curriculum at least equivalent to 120 credits at Level 4.

In addition, all students shall undertake classes at Strathclyde amounting to 60 credits as follows:

Compulsory Class	Level	Credits
XX xxx General Academic English	4	20
MP 512 Principles of Pharmaceutical Care	5	20
MP 5XP Topics in Pharmacy Practice and Therapeutics	5	20

Summer Semester

12.22.68 All students shall undertake classes amounting to 40 credits as follows:

Compulsory Class	Level	Credits
MP 507 Research Project	5	40

Final Semester

12.22.69 All students shall undertake classes amounting to 40 credits as follows:

MP 511 Bench to Bedside	5	40
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Progress

12.22.70 In order to progress to the second year of the course, a student must have passed all first year classes at the approved overseas institution.

12.22.71 In order to progress to the third year of the course, a student must have passed all second year classes at the approved overseas institution.

12.22.72 In order to progress to the fourth year of the course, a student must have passed all third year classes at the approved overseas institution

12.22.73 In order to progress to the Strathclyde Summer Semester of the course, a student must have passed all fourth year classes at the approved overseas institution and at the University of Strathclyde.

12.22.74 In order to progress to the final semester of the course, a student must have passed the Strathclyde Summer Semester project class

Final Classification

12.22.75 The final classification for the degree of MSci in Pharmacy will normally be based on:

- (i) the first assessed attempt at classes at levels four and five;
- (ii) if appropriate, an oral examination.

Award

12.22.76 **MSci in Pharmacy:** In order to qualify for the award of the degree of MSci in Pharmacy, a candidate must have accumulated no fewer than 600 credits from the course curriculum.

Transfer

12.22.77 A student who fails to satisfy the progress or award requirements for the degree of MSci in Pharmacy may be transferred to the degree of BSc in Pharmaceutical Sciences.

12.23
to 12.28

(Numbers not used).

12.29 Faculties of Science and Humanities and Social Sciences: Joint Courses

Chemistry with Teaching

MChem in Chemistry with Teaching

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Degree

- 12.29.1 The course is at Integrated Masters level. Transfer to the BSc degree is possible at any time, subject to satisfying the appropriate progress regulations. Transfer to the BSc in Chemistry with Teaching or the BSc with Honours in Chemistry is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

- 12.29.2 The course is available by both full-time and part-time study.

Place of Study

- 12.29.3 The School Experience classes will involve placements in schools. To be eligible to undertake School Experience, a student must be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update by the end of the third year.

Curriculum (Full-time study)

First Year

- 12.29.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 106	Chemistry: Principles and Practice 1	1	20
CH 107	Chemistry: Principles and Practice 2	1	20
CH 108	Practical and Transferable Skills	1	20
MM 116	Mathematics 1C	1	20
either			
PH 151	Mechanics, Optics and Waves*	1	20
or			
BM 102	Molecular Bioscience	1	20
or for a student lacking a pass in SQA Higher Physics (or an equivalent qualification			
PH 166	Foundation Physics	1	20
Elective Classes			20

* or other approved classes in Physics

Second Year

- 12.29.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH202	Inorganic Chemistry	2	20
CH 205	Practical Physical and Applied Chemistry	2	20
Ch 208	Fundamental Organic Chemistry	2	20
CH 212	Physical Chemistry 1	2	20
CH 213	Forensic Trace Analysis and Analytical Chemistry 2	2	20

CH 214	Practical Organic and Inorganic Chemistry	2	20
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Third Year

12.29.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 309	Physical Chemistry 2	3	20
CH 313	Practical Physical, Applied, Forensic and Analytical Chemistry	3	20
CH 315	Practical Organic and Inorganic Chemistry	3	20
CH 325	Intermediate Organic Chemistry and Spectroscopy	3	20
CH 326	Inorganic Chemistry, Structures and Spectroscopy	3	20
X9 822	Pedagogy and Curriculum Chemistry with Science 2A	4	20

Fourth Year

12.29.7 All students shall normally undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 458	Distance Learning Assignment	4	20
X7 747	Educational Studies	4	20
X9 923	Pedagogy and Curriculum Chemistry with Science 1 (PGDE Level 4)	4	40
X9 917	Pedagogy and Placement Learning 1A	4	40
X9 909	Educational Studies 1 (PGDE Level 4)	4	40

Fifth Year

12.29.8 All students shall undertake classes amounting to 120 credits:

Compulsory Classes		Level	Credits
CH 575	Classes leading to the MChem in Chemistry with Teaching	5	120

The above class comprises:

CH 552	Core Chemistry	5	40
CH 553	Chemistry Specialisation	5	40
CH 569	MChem Project and Dissertation	5	40

Curriculum (Part-time study)

12.29.9 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

12.29.10 In order to progress to the second year of the course a student must have accumulated at least 100 credits from the course curriculum including those for the classes *CH 106 Chemistry: Principles and Practice 1*, *CH 107 Chemistry: Principles and Practice 2*, *CH 108 Practical and Transferable Skills* and *MM 116 Mathematics 1C*.

- 12.29.11 In order to progress to the third year of the course, a student must have accumulated at least 240 credits including 120 Level 2 credits from Chemistry classes in the second year curriculum.
- 12.29.12 In order to progress to the fourth year of the course, a student must satisfy the requirements for entering Initial Teacher Education, be a member of the PVG (Protecting Vulnerable Groups) Scheme or, if already a member, must apply for an update and have accumulated no fewer than 360 credits from the course curriculum including at least 60 Level 3 credits from third year Chemistry classes.
- 12.29.13 In order to progress to the fifth year of the course, a student must normally have accumulated no fewer than 480 credits from the course curriculum.

Final Assessment

- 12.29.14 On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits under the class code *CH 575*.
- 12.29.15 The final classification for the degree of MChem will be based on:
- (i) the first assessed attempt at compulsory and specified optional classes taken in the third, fourth and fifth years;
 - (ii) if appropriate, an oral examination.

Award

- 12.29.16 **MChem:** In order to qualify for the award of the degree of MChem in Chemistry with Teaching, a candidate must have accumulated no fewer than 600 credits from the course curriculum including the credits for all the compulsory Education classes taken individually.
- 12.29.17 Notwithstanding Regulation 12.1.49, the degree will be classified in accordance with Regulation 11.1.50.

Transfer

- 12.29.18 A student who fails to satisfy the progress or award requirements for the degree of MChem may be transferred to the BSc in Chemistry with Teaching or the BSc with Honours in Chemistry, provided the appropriate progress regulations are satisfied.

12.30 Faculties of Science and Engineering: Joint Courses

Computer and Electronic Systems

MEng in Computer and Electronic Systems

MEng in Computer and Electronic Systems with International Study

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

- 12.30.1 The course is at Integrated Masters level. Transfer to the BEng degree in Computer and Electronic Systems is possible at any time subject to satisfying the appropriate progress regulations.

Mode of Study

- 12.30.2 The course is available by full-time study only.

12.30.3 Place of Study

The MEng in Computer and Electronic Systems with International Study requires study at an approved institution abroad. Such study will normally extend over a minimum period of 30 weeks. Subject to availability of an approved curriculum (including any project), study abroad can be undertaken during third, fourth or fifth years of the course. Study abroad may comprise two exchanges with different institutions of one semester each, not necessarily during the same year.

Curriculum

First Year

- 12.30.4 All students shall undertake classes amounting to no fewer than 140 credits as follows:

Compulsory Classes		Level	Credits
56 110	Engineering Industry and Profession	1	10
CS 103	Machines, Languages and Computation	1	20
CS 105	Programming Foundations	1	20
CS 107	Fundamentals of Computer Systems	1	10
EE 105	Electronic and Electrical Techniques and Design 1	1	20
EE 107	Electronic and Electrical Principles 1	1	20
MM 113	Engineering Mathematics 1E	1	20
MM 114	Engineering Mathematics 2E	1	20

Second Year

- 12.30.5 All students shall undertake classes amounting to no fewer than 130 credits as follows:

Compulsory Classes		Level	Credits
56 213	Engineering Design and Manufacture	2	10
CS 207	Advanced Programming	2	20
CS 210	Computer Systems and Architecture	2	20
EE 269	Electronic and Electrical Principles 2	2	20

EE 270	Digital Electronic Systems	2	20
MM 213	Engineering Mathematics 3E	2	20

Optional Classes

20 credits chosen from:

CS 208	Logic and Algorithms	2	20
PH 260	Physical Electronics	2	10
19207	Electromagnetism	2	10

Third Year

12.30.6 All students shall undertake classes amounting to no fewer than 120 credits as follows:

Compulsory Classes		Level	Credits
CS 308	Building Software Systems	3	20
CS 313	Computer Systems and Concurrency	3	20
EE 320	Signals and Communication Systems	3	20
56324	Engineering Innovation and Management	3	10
CX318	Computer and Electronic Systems Project	3	10

Elective Classes 20

Optional Classes

20 credits chosen from:

CS 310	Foundations of Artificial Intelligence	3	20
CS 311	Programming Language Definition & Implementation	3	20
EE 312	Instrumentation and Microcontrollers	3	20
EE 315	Analogue and Digital System Design	3	20
EE 313	Engineering Analysis	3	20

MEng in Computer and Electronic Systems with International Study

Students who elect to undertake study abroad during third year shall follow an approved curriculum which is equivalent to that specified in these regulations.

Optional Industrial Placement

12.30.7

CS 416	Industrial Placement 1	4	20
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Students may additionally undertake the above class normally between the third and fourth years. This class shall consist of a placement of approximately 12 weeks on work approved by the Course Director.

Fourth and Fifth Year

12.30.8 All students shall undertake classes amounting to 120 credits in each of fourth and fifth years as follows:

Compulsory Classes		Level	Credits
EE 475*	CES Individual Project	4	40
19 520**	Group Project	5	40

**normally undertaken during fourth year*

*** normally undertaken during fifth year*

Students select optional classes chosen from:

At level 4, 80 credits chosen from Regulation 11.30.7

At level 5, 80 credits chosen from Regulation 12.30.10

A total of no fewer than 220 credits must be at Level 4 or above, with no fewer than 120 credits taken at Level 5.

Exceptionally, such other classes offered by the Department of Computer and Information Sciences, the Department of Electronic and Electrical Engineering, or both, and totalling no more than 20 credits as may be approved by the Course Director.

MEng in Computer and Electronic Systems with International Study

12.30.9 Regulation 12.30.8 shall apply, with students permitted to incorporate up to 40 credits of classes in foreign language or otherwise relevant to international study, approved by the Course Director.

Students who elect to undertake study abroad during fourth or fifth year shall follow an approved curriculum which is equivalent to that specified in these regulations.

Optional Classes

12.30.10

CS 547	Advanced Topics in Software Engineering	5	20
CS 548	Designing Usable Systems	5	20
CS 549	Distributed Information Systems	5	20
CS 551	Mobile Software and Applications	5	20
CS 965	Computer Security	5	20
EE 578	Advanced DSP	5	20
EE 579	Advanced Microcontroller Applications	5	20
EE 581	Image and Video Processing	5	20
EE 582	Control Techniques	5	20
EE 583	Mobile and Wireless Networks	5	20
EE 980	DSP and FPGA-based Embedded Systems Design	5	20

Progress

12.30.11 In order to progress to the second year of the course, a student must have accumulated no fewer than 120 credits from the course curriculum.

12.30.12 In order to progress to the third year of the course, a student must have accumulated no fewer than 250 credits from the course curriculum.

12.30.13 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 390 credits from the course.

12.30.14 In order to progress to the fifth year of the course, a student must have accumulated no fewer than 510 credits from the course curriculum including those for the class *EE 475 CES Individual Project*.

12.30.15 *MEng in Computer and Electronic Systems with International Study*

In order to progress to a period of study abroad, a student must normally have passed all classes from the course curriculum. Any student who does not meet this requirement may be required to transfer to another course not requiring study abroad.

Final Assessment

- 12.30.16 The final classification for the degree of MEng in Computer and Electronic Systems will normally be based on:
- (i) the first assessed attempt at compulsory and optional classes taken in the fourth and fifth years;
 - (ii) if appropriate, an oral examination.

Award

- 12.30.17 **MEng:** In order to qualify for the award of the degree of MEng in Computer and Electronic Systems a candidate must have accumulated no fewer than 630 credits from the course curriculum including those for the classes *EE 475 CES Individual Project* and *19 520 Group Project*.

In order to qualify for the award of MEng in Computer and Electronic Systems with International Study, in addition to satisfying the provisions of Regulation 12.30.18, a student must have undertaken successfully no fewer than 30 weeks of approved study abroad.

Transfer

- 12.30.18 A candidate who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to the degree of BEng with Honours in Computer and Electronic Systems provided they satisfy the appropriate progress requirements.
- 12.30.19
to 12.30.40 (Numbers not used).

Applied Chemistry and Chemical Engineering

MSci in Applied Chemistry and Chemical Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

- 12.30.41 The course is at Integrated Masters level. Transfer to the BSc with Honours in Applied Chemistry or the BSc in Chemistry is possible at any time subject to satisfying the appropriate course regulations.

Mode of Study

- 12.30.42 The course is available by both full-time and part-time study.

Curriculum

First Year

- 12.30.43 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes	Level	Credits
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CH 106	Chemistry: Principles and Practice 1	1	20
CH 108	Practical and Transferable Skills	1	20
CP 101	Basic Principles in Chemical Engineering	1	20
CP 102	Chemical Engineering: Fundamentals, Techniques and Tools	1	20
MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20
Elective Class			10

Second Year

12.30.44 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
CH 208	Fundamental Organic Chemistry	2	20
CH 212	Physical Chemistry I	2	20
CH 218	Practical Organic, Inorganic and Physical Chemistry and Safety	2	20
CP 204	Fluid Flow and Heat Transfer	2	20
CP 207	Process Analysis and Statistics	2	20
MM 211	Mathematics 3B	2	20
Elective Class			10

Third Year

12.30.45 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 306	Practical Preparative and Physical Chemistry	3	20
CH 324	Inorganic Chemistry	3	20
CH 325	Intermediate Organic Chemistry and Spectroscopy	3	20
CP 302	Mass Transfer and Separation Processes	3	20
CP 306	Chemical Engineering Design and Advanced Information Technology	3	20
CP 308	Reactors and Chemical Engineering Practice	3	20

Fourth Year

12.30.46 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 460	Physical Chemistry 2	4	20
CH 461	Inorganic Chemistry, Structures and Spectroscopy	4	20
CP 405	Process Control and Environmental Technology	4	20
CP 407	Chemical Engineering Design (MSci)	4	60

Fifth Year

12.30.47 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
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CH 545	MSci in Applied Chemistry and Chemical Engineering	5	120
<i>CH 545</i> comprises:			
CH 557	Applied Chemistry Project	5	40
CH 565	Topics in Chemistry	5	40
CP 514	Topics in Chemical Engineering	5	40

Curriculum (Part-time study)

12.30.48 Students studying on a part-time basis will normally take classes amounting to 60 credits in each year.

Progress

12.30.49 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

12.30.50 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including a minimum of 100 at Level 2.

12.30.51 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course including 60 at Level 3.

12.30.52 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the course curriculum including at least 100 at Level 4 or above.

Final Assessment and Classification

12.30.53 On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits under the class code *CH 545*.

12.30.54 The final classification for the degree of MSci in Applied Chemistry and Chemical Engineering will normally be based on:

- (i) the first assessed attempt at compulsory and specified optional classes which are taken in the third, fourth and fifth years;
- (ii) if appropriate, an oral examination.

Award

12.30.55 **MSci:** In order to qualify for the award of the degree of MSci in Applied Chemistry and Chemical Engineering, a candidate must have accumulated no fewer than 600 credits from the course curriculum. Notwithstanding Regulation 12.1.0, these must include no fewer than 240 credits at Levels 4 or 5 of which a minimum of 120 must be at Level 5.

Transfer

12.30.56 A candidate who fails to satisfy the progress or award requirements for the degree may be transferred to the degree of BSc with Honours in Applied Chemistry or the BSc in Chemistry.

12.31
to 12.41 (Numbers not used)

Faculty of Engineering

12.42 Department of Biomedical Sciences

Biomedical Engineering

MEng in Biomedical Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

12.42.1 The course is at Integrated Masters level. Transfer to the BEng degree in Biomedical Engineering is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

12.42.2 The courses are available by full-time study only.

Curriculum

First Year

12.42.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16165	Engineering Analysis 1	1	10
BE100	Anatomy and Physiology for Biomedical Engineers	1	20
BE101	Biomedical Engineering	1	10
BE103	Analytical and Numerical Methods in Biomedical Engineering	1	20
BM102	Molecular Bioscience	1	20
EE107	Electronic and Electrical Principles 1	1	20
EM105	Electrical and Mechanical techniques and design	1	20

Second Year

12.42.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE200	Engineering Mechanics in Biomedical Engineering	2	20
BM203	Cell and Molecular Biology	2	20
EE269	Electronic and Electrical Principles 2	2	20
EE 270	Digital Electronic Systems	2	20
ME 209	Mathematical Modelling and Analysis	2	20
ME 211	Materials, Design and Engineering Applications	2	20

Third Year

12.42.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE302	Practical Biomechanics	3	20
BE300	Biomedical Materials	3	20

BE301	Physiological Systems in Health and Disease	3	20
BM301	Fundamental Immunology	3	20
EE312	Instrumentation and Microcontrollers	3	20
	Elective		20

Fourth Year

12.42.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE406	Biomedical Engineering project	4	40
BE403	Research Methods in BME	4	10
BE402	Professional Studies in BME	4	10
BE404	Biomedical Instrumentation	4	10
BE401	Biomedical Electronics	4	10

Optional Classes

40 credits chosen from

16429	Computer Aided Engineering Design	4	20
BE405	Sports Injury and Rehabilitation	4	20
BE400	Advanced topics in Human movement	4	20
BE4XX	Assistive Technologies	4	20
EE472	Control Principles	4	20
EE474	Robotics: systems and control	4	20
ME411	Advanced Mechanics and dynamics	4	20

Such other Level 4 classes as may be approved by the Course Director.

Fifth Year

12.42.7 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE501	Biomedical Engineering group project	5	40
BE500	Entrepreneurship and Commercialisation in Biomedical Engineering	5	10

Optional Classes

70 credits chosen from Lists A and B, of which no fewer than 40 credits must be taken from List A

List A

BE902	Prosthetics and Orthotics	5	10
BE901	Regenerative Medicine & Tissue Engineering	5	10
BE900	Tissue Mechanics	5	10
BE904	Clinical and Sports Biomechanics	5	10
BE905	Bio-signal Processing and Analysis	5	10
BE906	Biomaterials and Biocompatibility	5	10
BE903	Cardiovascular Devices	5	10

List B

16565	Engineering composites	5	10
EE578	Advanced Digital Signal Processing	5	10
EE579	Advanced microcontroller applications	5	10
EE581	Image and video processing	5	10

EE582	Control techniques	5	10
BM918	Clinical Biochemistry	5	10
BM919	Medical Genomics	5	10
MP941	Advanced Techniques in Biochemistry	5	10
MP942	Advanced Techniques in Biomedical Research	5	10
MP946	Advanced Techniques in Molecular Biology	5	10

Progress

- 12.42.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum
- 12.42.9 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.
- 12.42.10 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum.
- 12.42.11 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the course curriculum.

Final Assessment and Classification

- 12.42.12 The final classification for the degree of MEng in the chosen course will normally be based on the first assessed attempt at compulsory and specified optional classes in the second, third, fourth and fifth years.

Award

- 12.42.13 **MEng:** In order to qualify for the award of the degree of MEng in Biomedical Engineering, a candidate must have accumulated no fewer than 600 credits from the course curriculum, including all compulsory classes. No fewer than 220 credits must be at Levels 4 and 5, including 120 credits at Level 5.

Transfer

- 12.42.14 A candidate who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to the degree of BEng in Biomedical Engineering.

MSci in Prosthetics and Orthotics

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

- 12.42.15 The course is at Integrated Masters level. Students are admitted in the first instance to the BSc with Honours in Prosthetics and Orthotics degree.

Mode of Study

- 12.42.16 The course is available by full-time study only.

Place of Study

- 12.42.17 The Clinical Placement in both Prosthetics and Orthotics will be conducted in approved hospital-based prosthetic and orthotic centres and will comprise an approved programme of clinical experience. Students must apply for membership of the PVG (Protecting Vulnerable Groups) Scheme managed by Disclosure Scotland; or if already a member must apply for an update.

Curriculum

First, Second and Third Year

12.42.18 The first, second and third year curricula are taught as part of the BSc with Honours in Prosthetics and Orthotics. See Regulations 11.49.4 -11.49.6.

Fourth Year

12.42.19 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes

94 404	Prosthetics/Orthotics Clinical Placement 2*	4	60
94 405	Project	4	40

Elective Class 10

Optional Classes

10 credits chosen from:

94 406	Wheelchairs and Seating	4	10
94 407	Upper Limb Prosthetics	4	10
94 408	Hip, Knee & Ankle Disarticulation Prosthetics	4	10
94 409	Lower Limb Prosthetic Design	4	10
94 410	Orthotic Management of Spinal Deformity	4	10
94 411	Orthotic Management of Neurological Conditions	4	10
94 412	Clinical Governance	4	10
94 413	Clinical Gait Analysis	4	10

*The Clinical Placement in both Prosthetics and Orthotics will be conducted in approved prosthetic and orthotic clinical centres and will consist of an approved programme of clinical experience.

Fifth Year

12.42.20 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes

94 500	Prosthetic and Orthotic Masters Project	5	60
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Optional Classes

94 5xx	Wheelchairs and Seating B	5	20
94 5xx	Upper Limb Prosthetics B	5	20
94 5xx	Hip, Knee & Ankle Disarticulation Prosthetics B	5	20
94 5xx	Lower Limb Prosthetic Design B	5	20
94 5xx	Orthotic Management of Spinal Deformity B	5	20
94 509	Orthotic Management of Neurological Conditions B	5	20
94 510	Orthotic Management of Diabetes Mellitus B	5	20
94 5xx	Clinical Governance B	5	20
94 5xx	Clinical Gait Analysis B	5	20

Progress

12.42.21 In order to transfer and progress to the fourth year of the course, a student must have accumulated 360 credits from the BSc with Honours in Prosthetics and Orthotics course curriculum.

12.42.22 In order to progress to the fifth year of the course, a student must normally have accumulated 480 credits from the course curriculum.

Final Classification

12.42.23 The final classification for the award of the degree of MSci in Prosthetics and Orthotics will normally be based on:

- (i) the first assessed attempt at compulsory classes in the second, third, fourth and fifth years;
- (ii) clinical, laboratory and project work in the second, third, fourth and fifth years;
- (iii) clinical oral examinations following placements in Prosthetics and Orthotics in the third and fourth year;
- (iv) individual project work in the fourth and fifth years;
- (v) if appropriate, an oral examination.

Award

12.42.24 **MSci:** In order to qualify for the award of the degree of MSci in Prosthetics and Orthotics, a candidate must have accumulated no fewer than 600 credits from the course curriculum. Notwithstanding Regulation 12.1.9, these must include a minimum of 120 credits at Level 5 and a minimum of 160 credits at Level 4.

Transfer

12.42.25 A candidate who fails to satisfy the progress or award requirements for the degree of MSci in Prosthetics and Orthotics may be transferred to the degree of BSc with Honours in Prosthetics and Orthotics.

12.43 Department of Chemical and Process Engineering

Chemical Engineering

MEng in Chemical Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

12.43.1 The course is at Integrated Masters level. Transfer to the BEng degree in Chemical Engineering is possible at all stages, subject to satisfying the appropriate progress requirements.

Mode of Study

12.43.2 The course is available by full-time study only.

Curriculum

First Year

12.43.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CH 106	Chemistry: Principles and Practice 1	1	20
CP 101	Basic Principles in Chemical Engineering	1	20
CP 102	Chemical Engineering: Fundamentals, Techniques and Tools	1	20
MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20

Elective Class(es) 20

Second Year

12.43.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MM 211	Mathematics 3B	2	20
CP 203	Thermodynamic and Chemical Principles	2	20
CP 204	Fluid Flow and Heat Transfer	2	20
CP 205	Safety and Project Management	2	20
CP 206	Chemical Engineering Practice 1	2	20
CP 207	Process Analysis and Statistics	2	20

Third Year

12.43.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CP 302	Mass Transfer and Separation Processes	3	20
CP 303	Materials Processing and Application	3	20
CP 304	Reactors and Biochemical Engineering	3	20
CP 305	Ethics, Sustainability and Economics	3	20

CP 306	Chemical Engineering Design and Advanced Information Technology	3	20
CP 307	Chemical Engineering Practice 2	3	20

Fourth Year

12.43.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CP 404	Particle Technology and Multiphase Systems	4	20
CP 405	Process Control and Environmental Technology	4	20
CP 407	Chemical Engineering Design	4	60
CP 409	Advanced Separations and Problem Solving	4	20

Fifth Year

12.43.7 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
18530	Chemical Engineering Project	5	60

Optional Classes

No fewer than 60 credits from the following including at least 10 credits and no more than 30 credits from each of lists A, B & C

List A*

CP515(CP947)	Colloid Engineering	5	10
CP525(CP951)	Nanotechnology	5	10
CP528(CP950)	Modern Methods of Process Measurement	5	10
CP5xx(CP937)	Multi-Phase Processing	5	10
CP520	Membrane Technologies	5	10

List B*

CP529(CP943)	Programming and Optimisation	5	10
CP518	Communicating Science and Technology	5	10
CP516(CP940)	Emerging Technologies	5	10
CP5xx(CP920)	Modelling & Simulation	5	10
CP5xx	Molecular Simulation in Chemical Engineering	5	10

List C*

CP526	Nuclear Engineering	5	10
CP5x17	Fuel Cells	5	10
CP527(CP946)	Petroleum Engineering	5	10
CP5xx (CP924)	Environmental Engineering Management	5	10

Exceptionally, such other classes totalling no more than 10 credits as approved by the Course Director.

Progress

12.43.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.

- 12.43.9 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum, including at least 120 credits from Level 1 and 100 from Level 2.
- 12.43.10 In order to progress to the fourth year of the course, a student must have accumulated 360 credits from the course curriculum, including at least 120 credits from Level 2 and 100 from Level 3.
- 12.43.11 In order to progress to the fifth year of the course, a student must normally have accumulated at least 480 credits from the course curriculum including 120 credits from Level 3 and 100 credits from Level 4.

Final Assessment and Classification

- 12.43.12 On successful completion of the fifth year, a candidate will be awarded Level 5 credits corresponding to the classes taken.
- 12.43.13 The final classification for the degree of MEng in Chemical Engineering will normally be based on:
- (i) the first assessed attempt at compulsory classes taken in the second, third, fourth and fifth years;
 - (ii) if appropriate, an oral examination.

Award

- 12.43.14 **MEng:** In order to qualify for the award of the degree of MEng in Chemical Engineering, a candidate must have accumulated no fewer than 600 credits from the course curriculum.

Transfer

- 12.43.15 A candidate who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to the degree of BEng with Honours in Chemical Engineering.

12.44 Department of Civil and Environmental Engineering

Structural and Architectural Engineering

MEng in Structural and Architectural Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

12.44.1 The course is at Integrated Masters level. Transfer to a BEng in Structural and Architectural Engineering is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

12.44.2 The course is available by full-time study only.

Curriculum

First Year

12.44.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 110	Cultural Studies 1	1	20
CL 111	Structural Mechanics and Materials 1	1	20
CL 119	Introduction to Geology and Soil Mechanics	1	20
CL 117	Basic Mechanics	1	10
ME 101	Heat and Flow 1	1	10
MM 115	Mathematics 1D	1	20
Elective Class(es)			20

Second Year

12.44.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 211	Cultural Studies 2	2	20
CL 207	Structural Mechanics and Materials 2	2	20
CL 217	Soil Mechanics	2	20
CL 216	Hydraulics and Hydrology	2	20
16 293	Environmental Engineering Science	2	10
16 294	Energy Systems 1	2	10
MM 215	Mathematics 2D	2	20

Third Year

12.44.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
AB 314	Cultural Studies 3	3	20
CL 313	Structural Engineering 1	3	20
CL 314	Geotechnical Engineering 1	3	20
CL 317	Construction Management	3	20
CL 324	Surveying and Building Design	3	20

16 387	Environmental Engineering Science 2	3	10
16 390	Energy Systems 2	3	10

Fourth Year

12.44.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 469	Low Energy Building Design	4	20
CL 4XX	Individual Project	4	40
CL 418	Structural Engineering 2	4	20
CL 419	Geotechnical Engineering 2	4	20
CL 4XX	Prestressed Concrete, Composite Materials and Structural Stability	4	10

Optional Classes

30 credits chosen from:

CL 421	Environmental Engineering 2	4	20
CL 422	Transport Planning	4	20
CL 428	Architectural Engineering Design Project	4	20
16 468	Acoustics	4	10
ME 404	Energy Systems Modelling	4	10

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director.

Fifth Year

12.44.7 All students shall undertake classes amounting to no fewer than 120 credits (which must bring the total studied at Level 5 to no fewer than 120 credits) as follows:

Compulsory Class

CL 509	Civil Engineering Design Projects	5	40
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Optional Classes

No fewer than 80 credits chosen from Lists A and B in Regulation 12.44.8 of which a minimum of 20 must be chosen from List A.

Optional Classes

12.44.8

List A: Civil Engineering

		Level	Credits
CL 507	Ground Improvement and Reinforcement	5	10
CL 510	Advanced Structural Analysis and Design	5	10
CL 906	Site Investigation and Risk Assessment	5	10
17 540	Transport Development and Sustainability	5	10
CL 514	Rock Mechanics, Tunnelling and Groundwater	5	10
CL 5xx	Individual Project	5	20

Exceptionally, such other Level 5 classes totalling no more than 20 credits as approved by the Course Director.

List B: Environmental Engineering

CL 504	Financial Engineering	5	10
CL 565	Science, Technology and Innovation Policy	5	10
CL 904	Waste Management & Landfill Design	5	10
CL 952	Aquifer Mechanics	5	10
CL 972	Sustainability and Strategic Environmental Assessment	5	10
CL 961	Geographical Information Systems	5	10
EV 939	Environmental Impact Assessment	5	10
ME 514	Advanced Topics in Fluid Systems Engineering	5	10
ME 927	Energy Resources and Policy	5	10
ME 928	Energy Systems Analysis	5	10
ME 930	Energy Modelling and Monitoring	5	10
NM 518	Offshore Engineering Practice	5	10

Exceptionally, such other classes totaling no more than 20 credits as approved by the Course Director.

Progress

- 12.44.9 In order to progress to the second year of the course a student must have accumulated no fewer than 100 credits from the course curriculum.
- 12.44.10 In order to progress to the third year of the course, a student must have accumulated no fewer than 220 credits from the course curriculum.
- 12.44.11 In order to progress to the fourth year, a student must have accumulated no fewer than 360 credits from the course curriculum.
- 12.44.12 In order to progress to the fifth year, a student must have accumulated no fewer than 480 credits from the course curriculum including those for the class *CL4XX Individual Project*.

Final Assessment and Classification

- 12.44.13 On successful completion of the fifth year, a candidate will be awarded the Level 5 credits corresponding to the classes taken.
- 12.44.14 The final assessment for the award of the degree of MEng in Architectural Engineering will normally be based on:
the first assessed attempt at compulsory and approved optional classes taken in the second, third, fourth and fifth years.

Award

- 12.44.15 **MEng:** In order to qualify for the award of the degree of MEng in Structural and Architectural Engineering a candidate must have accumulated no fewer than 600 credits from the course curriculum including those for the class *CL 4XX Individual Project*.

Transfer

- 12.44.16 A candidate who fails to satisfy the progress or award requirements for the degree of MEng in Structural and Architectural Engineering may be

transferred to the degree of BEng in Structural and Architectural Engineering.

12.44.17
to 12.44.20

Civil Engineering

MEng in Civil Engineering

MEng in Civil and Environmental Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

12.44.21 The courses are at Integrated Masters level. Transfer between the MEng degrees is possible at any time prior to the third year of study, subject to satisfying the appropriate progress regulations. Transfer to the degrees of BEng in Civil Engineering or BEng in Civil and Environmental Engineering is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

12.44.22 The courses are available by full-time study only.

Curriculum

First Year

12.44.23 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CL 111	Structural Mechanics and Materials 1	1	20
CL 119	Introduction to Geology and Soil Mechanics	1	20
CL 114	Civil Engineering Design Projects	1	20
CL 118	Basic Mechanics and Fluid Statics	1	20
MM 115	Mathematics 1D	1	20
Elective Class(es)			20

Second Year

12.44.24 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CL 207	Structural Mechanics and Materials 2	2	20
CL 217	Soil Mechanics	2	20
CL 209	Land Surveying and Mapping	2	20
CL218	Chemistry and Materials Science	2	20
CL 216	Hydraulics and Hydrology	2	20
MM 215	Mathematics 2D	2	20

Third Year

12.44.25 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
CL 313	Structural Engineering 1	3	20
CL 314	Geotechnical Engineering 1	3	20
CL 315	Water Engineering 1	3	20
CL 316	Environmental Engineering 1	3	20

together with classes appropriate to the chosen course:

Civil Engineering

Compulsory Classes

CL 317	Construction Management	3	20
CL 318	Transport Engineering	3	20

Civil and Environmental Engineering

Compulsory Classes

CL 321	Atmospheric Pollution	3	20
and either			
CL 317	Construction Management	3	20
or			
CL 318	Transport Engineering	3	20

Fourth Year

12.44.26 All students shall undertake classes amounting to 120 credits as follows:

Civil Engineering

Compulsory Classes

		Level	Credits
CL 4XX	Individual Project	4	40
CL 419	Geotechnical Engineering 2	4	20
CL 420	Water Engineering 2	4	20
CL 418	Structural Engineering 2	4	20
CL4XX	Prestressed Concrete, Composite Materials and Structural Stability	4	10

Civil and Environmental Engineering

Compulsory Classes

CL 421	Environmental Engineering 2	4	20
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Civil Engineering

Optional Classes

No fewer than 30 credits chosen from Lists A and B in Regulation 12.44.XX

Civil and Environmental Engineering

Optional Classes

No fewer than 40 credits chosen from Lists A and B in Regulation 12.44.XX of which a minimum of 20 must be chosen from List B.

12.44.27

List A: Civil Engineering

CL 422 Transport Planning	4	20
CL 418 Structural Engineering 2	4	20
CL4XX Prestressed Concrete, Composite Materials and Structural Stability	4	10

List B: Environmental Engineering

CL 421 Environmental Engineering 2	4	20
CL 413 Solid Waste Management 4 10		
CL 430 Principles of Environmental Microbiology	4	10
CL 431 Pollution and Rehabilitation of Degraded Ecosystems	4	10

Fifth Year

12.44.28 All students shall undertake classes amounting to no fewer than 120 credits, (which must bring the total studied at Level 5 to no fewer than 120 credits)

Compulsory Class

CL 509	Civil Engineering Design Projects	5	40
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together with classes appropriate to the chosen course:

*Civil Engineering***Optional Classes**

No fewer than 80 credits chosen from Lists A, B, and C in Regulation 12.44.28 of which a minimum of 20 must be chosen from List A.

*Civil and Environmental Engineering***Optional Classes**

No fewer than 80 credits chosen from Lists A, B, and C in Regulation 12.44.28 of which a minimum of 20 must be chosen from List B.

Optional Classes

12.44.29

List A: Civil Engineering

		Level	Credits
17 540	Transport, Development and Sustainability	5	10
CL 507	Ground Improvement and Reinforcement	5	10
CL 510	Advanced Structural Analysis and Design	5	10
CL 906	Site Investigation and Risk Assessment	5	10
CL 514	Rock Mechanics, Tunnelling and Groundwater	5	10
CL 5xx	Individual Project	5	20

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director.

List B: Environmental Engineering

CL 904	Waste Management & Landfill Design	5	10
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CL 935	Hydrogeology	5	10
CL 946	Global Water Policy	5	10
CL 948	Principles of Environmental Microbiology	5	10
CL 952	Aquifer Mechanics	5	10
CL 954	Contaminated Land	5	10
CL 960	Fundamentals of Environmental Forensics	5	10
CL 961	Geographical Information Systems	5	10
CL 970	Environmental Pollution Management	5	10
CL 971	Air Pollution, Climate Change & Human Health	5	10
CL 972	Sustainability and Strategic Environmental Assessment	5	10
EV 908	Pollution and Rehabilitation of Degraded Ecosystems	5	10
EV 939	Environmental Impact Assessment	5	10

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director.

List C: Other

CL 565	Science, Technology and Innovation Policy	5	10
CL 504	Financial Engineering	5	10
ME 927	Energy Resources and Policy	5	10
M9 929	UK & EU Environmental Law	5	10
NM 518	Offshore Engineering Practice	5	10

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director.

Progress

- 12.44.30 In order to progress to the second year of the chosen course, a student must have accumulated no fewer than 100 credits from the course curriculum.
- 12.44.31 In order to progress to the third year of the chosen course, a student must have accumulated no fewer than 220 credits from the course curriculum.
- 12.44.32 In order to progress to the fourth year of the chosen course, a student must have accumulated no fewer than 360 credits from the course curriculum.
- 12.44.33 In order to progress to the fifth year of the chosen course, a student must have accumulated no fewer than 480 credits from the course curriculum including those for the class *CL 4XX* Individual Project.

Final Assessment and Classification

- 12.44.34 On successful completion of the fifth year, a candidate will be awarded the Level 5 credits corresponding to the classes taken.
- 12.44.35 The final classification for the degree of MEng in the chosen course will normally be based on:
the first assessed attempt at compulsory and approved optional classes taken in the second, third, fourth and fifth years;

Award

12.44.36 **MEng:** In order to qualify for the award of the degree of MEng in the chosen course, a candidate must have accumulated no fewer than 600 credits from the course curriculum including those for the class *CL 4XX* Individual Project

Transfer

12.44.37 A candidate who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to a degree of BEng in the chosen course.

12.45 Department of Design, Manufacture and Engineering Management

Product Design Engineering

MEng in Product Design Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

12.45.1 The course is at Integrated Masters level. Transfer to the BEng degree in Product Design Engineering is possible at any time, subject to satisfying the appropriate progress requirements.

Mode of Study

12.45.2 The courses are available by full-time study only.

Curriculum

First Year

12.45.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 132	Engineering Mechanics 1	1	20
DM 100	Design 1	1	20
DM 101	Integrating Studies 1	1	20
DM 102	Introduction to Production Engineering and Management	1	20
MM 115	Mathematics 1D	1	20
Elective Class(es)			20

Second Year

12.45.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 155	Engineering Materials	1	10
19 222	Electrical Machines and Control	2	10
19 260	Electrical and Electronic Engineering	2	10
DM 200	Design 2	2	20
DM 202	Design and Manufacturing Management	2	20
DM 204	Integrating Studies 2	2	20
DM 205	Production Techniques 1	2	20
ME 101	Heat and Flow	1	10

Third Year

12.45.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 303	Engineering Design	3	20
DM 304	Integrating Studies 3	3	20
DM 306	Product Development	3	20
DM 308	Production Techniques 2	3	20

DM 309	Mechatronics Design and Applications	3	20
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Optional Classes

20 credits at Level 3 or 4 chosen from the list of optional classes in Regulation 12.45.8

Fourth Year

12.45.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 400	Advanced Design Methods	4	20
DM 401	Advanced Product Design and Manufacture	4	20
DM 402	Individual Project 1	4	40
DM 403	Industrial Group Project	4	20

Optional Classes

20 credits at Level 3, 4 or 5 chosen from the list of optional classes in Regulation 12.45.8.

Fifth Year

12.45.7 All students shall undertake classes amounting to no fewer than 120 credits as follows:

Compulsory Classes		Level	Credits
DM 500	Individual Project 2	5	40
DM 501	Industrial Group Project 2	5	20
DM 502	Research Studies	5	20

Optional Classes

No fewer than 40 credits at Level 4 or 5 (which must bring the total at Level 5 to no fewer than 120 credits) chosen from the list of optional classes in Regulation 12.45.8.

Optional Classes at Levels 3, 4 and 5

DM 300	Design Emotion and Experience	3	20
DM 302	Design Interaction	3	20
DM 305	Innovation Management	3	20
DM 307	Production and Operations Management	3	20
VP 301	Vertically Integrated Project	3	10
VP 302	Vertically Integrated Project	3	10
DM 404	Quality Management	4	20
DM 406	Industrial Placement 1	4	20
DM 405	Industrial Placement 2	4	20
DM 407	Industrial Placement 3	4	40
VP 401	Vertically Integrated Project	4	10
VP 402	Vertically Integrated Project	4	10
DM503	Global Design	5	10
DM918	People, Organisation and Technology	5	10
DM920	Strategic technology Management	5	10
DM923	Product Modelling and Visualisation	5	10

DM925	Systems Integration	5	10
DM926	Supply Chain Operations	5	10
DM929	CAED Systems	5	10
DM935	Management of Total Quality and Continuous Improvement	5	10
EF927	Design Management	5	10
EF930	Information Management	5	10
VP 501	Vertically Integrated Project	5	10
VP 502	Vertically Integrated Project	5	10

Progress

- 12.45.9 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 12.45.10 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including 100 credits at Level 2 or above.
- 12.45.11 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 100 credits at Level 3 or above.
- 12.45.12 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the course curriculum including 100 credits at Level 4 or above.

Final Classification

- 12.45.13 The final classification for the degree of MEng in Product Design Engineering will normally be based on the first assessed attempt at compulsory and, where appropriate, specified optional classes taken in the second, third, fourth and fifth years.

Award

- 12.45.14 **MEng:** In order to qualify for the award of the degree of MEng in Product Design Engineering, a candidate must have accumulated no fewer than 600 credits from the course curriculum including those for the classes *DM 402 Individual Project 1* and *DM 500 Individual Project 2*.

Transfer

- 12.45.15 A student who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to a degree of BEng in Product Design Engineering.

- 12.45.16
to 12.45.20 (Numbers not used)

Production Engineering and Management

MEng in Production Engineering and Management

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

12.45.21 The course is at Integrated Masters level. Transfer to the BEng degree in Production Engineering Management is possible prior to the fourth year, subject to satisfying the appropriate progress requirements.

Mode of Study

12.45.22 The courses are available by full-time study only.

Curriculum**First Year**

12.45.23 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 100	Design 1	1	20
DM 101	Integrating Studies 1	1	20
DM 102	Introduction to Production Engineering and Management	1	20
MM 115	Mathematics 1D	1	20
16 132	Engineering Mechanics 1	1	20
Elective Class(es)			20

Second Year

12.45.24 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 155	Engineering Materials	1	10
19 222	Electrical Machines and Control	2	10
19 260	Electrical and Electronic Engineering	2	10
DM 200	Design 2	2	20
DM 202	Design and Manufacturing Management	2	20
DM 204	Integrating Studies 2	2	20
DM 205	Production Techniques 1	2	20
ME 101	Heat and Flow	1	10

Third Year

12.45.25 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 304	Integrating Studies 3	3	20
DM 305	Innovation Management	3	20
DM 307	Production and Operations Management	3	20
DM 308	Production Techniques 2	3	20
DM 309	Mechatronics Design and Applications	3	20

Optional Classes

20 credits at Level 3 or 4 chosen from the list of optional classes in Regulation 12.45.28

Fourth Year

12.45.26 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 401	Advanced Product Design and Manufacture	4	20
DM 402	Individual Project 1	4	40
DM 403	Industrial Group Project 1	4	20
DM 404	Quality Management	4	20

Optional Classes

20 credits at Level 3, 4 or 5 chosen from the list of optional classes in Regulation 12.45.28.

Fifth Year

12.45.27 All students shall undertake classes amounting to no fewer than 120 credits as follows:

Compulsory Classes		Level	Credits
DM 500	Individual Project 2	5	40
DM 501	Industrial Group Project 2	5	20
DM 502	Research Studies	5	20

Optional Classes

No fewer than 40 credits at Level 4 or 5 (which must bring the total studied at Level 5 to no fewer than 120 credits) chosen from the list of optional classes in Regulations 12.45.28

Optional Classes at Levels 3, 4 and 5

12.45.28

DM 300	Design Emotion and Experience	3	20
DM 302	Design Interaction	3	20
DM 303	Engineering Design	3	20
DM 306	Product Development	3	20
VP 301	Vertically Integrated Project	3	10
VP 302	Vertically Integrated Project	3	10
DM 400	Advanced Design Methods	4	20
DM 406	Industrial Placement 1	4	20
DM 405	Industrial Placement 2	4	20
DM 407	Industrial Placement 3	4	40
VP 401	Vertically Integrated Project	4	10
VP 402	Vertically Integrated Project	4	10
DM503	Global Design	5	10
DM918	People, Organisation and Technology	5	10
DM920	Strategic technology Management	5	10
DM923	Product Modelling and Visualisation	5	10
DM925	Systems Integration	5	10
DM926	Supply Chain Operations	5	10
DM929	CAED Systems	5	10
DM935	Management of Total Quality and Continuous Improvement	5	10
EF927	Design Management	5	10
EF930	Information Management	5	10

VP 501	Vertically Integrated Project	5	10
VP 502	Vertically Integrated Project	5	10

Progress

- 12.45.29 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 12.45.30 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including 100 credits at Level 2.
- 12.45.31 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 100 credits at Level 3.
- 12.45.32 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the course curriculum including 100 credits at Level 4.

Final Classification

- 12.45.33 The final classification for the degree of MEng in Production Engineering and Management will normally be based on the first assessed attempt at compulsory and, where appropriate, specified optional classes taken in the second, third, fourth and fifth years.

Award

- 12.45.34 **MEng:** In order to qualify for the award of the degree of MEng in Production Engineering and Management, a candidate must have accumulated no fewer than 600 credits from the course curriculum including those for the classes *DM 402 Individual Project 1* and *DM 500 Individual Project 2*.

Transfer

- 12.45.35 A student who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to the degree of BEng in Production Engineering and Management.

12.45.36
to 12.45.40 (Numbers not used)

Sports Engineering

MEng in Sports Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

- 12.45.41 The course is at Integrated Masters level. Transfer to the BEng degree in Sports Engineering is possible at any time, subject to satisfying the appropriate progress requirements.

Mode of Study

12.45.42 The courses are available by full-time study only.

Curriculum**First Year**

12.45.43 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 100	Design 1	1	20
DM 101	Integrating Studies 1	1	20
DM 102	Introduction to Production Engineering and Management	1	20
DM 103	Technology Concepts	1	20
BE 1XX	Anatomy and Physiology for Bioengineers	1	20

Elective Class(es) 20

Second Year

12.45.44 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 200	Design 2	2	20
DM 204	Integrating Studies 2	2	20
DM 205	Production Techniques 1	2	20
DM 206	Sports Engineering Module	2	20
BE 2XX	Biomechanics of Human Movement – Theory	2	20
BE2XX	Biomechanics of Human Movement – Measurement	2	20

Third Year

12.45.45 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BE 3XX	Physiology of Sport and Exercise	3	20
DM 303	Engineering Design	3	20
DM 304	Integrating Studies 3	3	20
DM 306	Product Development	3	20
DM 309	Mechatronics Design and Applications	3	20

Optional Classes

20 credits at Level 3 and 4 chosen from the list of optional classes in Regulation 12.45.48.

Fourth Year

12.45.46 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
DM 402	Individual Project 1	4	40
DM 403	Industrial Group Project 1	4	20
65 404	Sport Injury and Rehabilitation	4	20
65 405	Advanced Topics in Human Movement	4	20

Optional Classes

20 credits cat Level 3, 4 or 5* chosen from the list of optional classes in Regulation 12.45.48

*With the exception of 65 964 Prosthetics and Orthotics, 65 971 Clinical and Sports Biomechanics and 65 976 Biomedical Electronics

Fifth Year

12.45.47 All students shall undertake classes amounting to no fewer than 120 credits as follows:

Compulsory Classes		Level	Credits
DM 500	Individual Project 2	5	40
DM 501	Industrial Group Project 2	5	20
DM 502	Research Studies	5	20

Optional Classes

No fewer than 40 credits at Level 4 or 5 (which must bring the total studied at Level 5 to no fewer than 120 credits) chosen from the list of optional classes in Regulations 12.45.48.

12.45.48 **Optional Classes at Levels 3, 4 and 5**

DM 305	Innovation Management	3	20
DM 307	Production and Operations Management	3	20
DM 308	Production Techniques 2	3	20
VP 301	Vertically Integrated Project	3	10
VP 302	Vertically Integrated Project	3	10
DM 400	Advanced Design Methods	4	20
DM 401	Advanced Product Design and Manufacture	4	20
DM 404	Quality Management	4	20
DM 406	Industrial Placement 1	4	20
DM 405	Industrial Placement 2	4	20
DM 407	Industrial Placement 3	4	40
VP 401	Vertically Integrated Project	4	10
VP 402	Vertically Integrated Project	4	10
DM503	Global Design	5	10
DM918	People, Organisation and Technology	5	10
DM920	Strategic technology Management	5	10
DM923	Product Modelling and Visualisation	5	10
DM925	Systems Integration	5	10
DM926	Supply Chain Operations	5	10
DM929	CAED Systems	5	10
DM935	Management of Total Quality and Continuous Improvement	5	10
EF927	Design Management	5	10
EF930	Information Management	5	10
VP 501	Vertically Integrated Project	5	10
VP 502	Vertically Integrated Project	5	10

65 964	Prosthetics and Orthotics	5	10
65 971	Clinical and Sports Biomechanics	5	10
65 976	Biomedical Electronics	5	10

Progress

- 12.45.49 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 12.45.50 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum including 100 credits at Level 2 or above.
- 12.45.51 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum including 100 credits at Level 3 or above.
- 12.45.52 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the course curriculum including 100 credits at Level 4 or above.

Final Classification

- 12.45.53 The final classification for the degree of MEng in Sports Engineering will normally be based on the first assessed attempt at all classes taken in the second, third, fourth and fifth years.

Award

- 12.45.54 **MEng:** In order to qualify for the award of the degree of MEng in Sports Engineering, a candidate must have accumulated no fewer than 600 credits from the course curriculum including those for the classes *DM 402 Individual Project 1* and *DM 500 Individual Project 2*.

Transfer

- 12.45.55 A student who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to a degree of BEng with Honours in Sports Engineering.
- 12.45.56
to 12.45.60 (Numbers not used)

12.46 Department of Electronic and Electrical Engineering

Electronic and Electrical Engineering

MEng in Electronic and Electrical Engineering

MEng in Electronic and Electrical Engineering with Business Studies

MEng in Electronic and Electrical Engineering with International Study

MEng in Electrical Energy Systems

MEng in Electronic and Digital Systems

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

12.46.1 The courses are at Integrated Masters level. Transfer between these MEng courses is possible prior to the fourth year of study subject to satisfying the appropriate progress regulations. Transfer to the BEng in Electronic and Electrical Engineering is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

12.46.2 The courses are available by full-time study only.

Place of Study

12.46.3 The MEng in Electronic and Electrical Engineering with International Study requires study at an approved institution abroad. Such study will normally extend over a minimum period of 30 weeks. Subject to availability of an approved curriculum (including any project), study abroad can be undertaken during third, fourth or fifth years of the course. Study abroad may comprise two exchanges with different institutions of one semester each, not necessarily during the same year.

Curriculum

First Year

12.46.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
56 110	Engineering Industry and Profession	1	10
EE 105	Electronic and Electrical Techniques and Design 1	1	20
EE 106	Engineering Design for Software Development 1	1	20
EE 107	Electronic and Electrical Principles 1	1	20
MM 113	Engineering Mathematics 1E	1	20
MM 114	Engineering Mathematics 2E	1	20
PH 167	Physical Sciences	1	10

Second Year

12.46.5 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
56 213	Engineering Design and Manufacture	2	10
PH260	Physical Electronics	2	10

19207	Electromagnetism	2	10
EE 269	Electronic and Electrical Principles 2	2	20
EE 270	Digital Electronic Systems	2	20
EE 271	Electronic and Electrical Techniques and Design 2	2	10
EE 273	Engineering Design for Software Development 2	2	20
MM 213	Engineering Mathematics 3E	2	20

Third Year

12.46.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
EE 320	Signals and Communications Systems	3	20
EE 311	Electronic and Electrical Principles 3	3	20
EE 312	Instrumentation and Microcontrollers	3	20
EE 313	Engineering Analysis	3	20
56 324	Engineering Innovation and Management	3	10
EE 318	Engineering Project	3	10
Elective Classes			20

MEng in Electronic and Electrical Engineering with European Studies
MEng in Electronic and Electrical Engineering with International Study

Students who elect to undertake study abroad during third year shall follow an approved curriculum which is equivalent to that specified in these regulations.

Fourth Year and Fifth Year

12.46.7 All students shall undertake classes amounting to 120 credits in each of fourth and fifth years as follows:

Compulsory Classes		Level	Credits
<i>Fourth Year</i>			
19 496	Individual Project	4	40
<i>Fifth Year</i>			
19 520	Group Project	5	40

Optional Classes

80 credits in each of fourth and fifth years appropriate to the chosen course (see Regulations 12.46.8 – 12.46.12).

Optional classes must incorporate no fewer than 140 credits at Level 4 and above and no fewer than 80 credits at Level 5.

MEng in Electronic and Electrical Engineering

12.46.8

Optional classes chosen from:

At levels 3 and 4, Lists A, B and C in Regulation 11.46.7

At level 5, Lists A, B and C in Regulation 12.46.13

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director

MEng in Electronic and Electrical Engineering with Business Studies

12.46.9

Regulation 12.46.7 shall apply, with students required to incorporate 40 credits of business studies:

EM403	Engineering Business Case Studies and Case Studies	4	20
MS 952	Regulation and Competition in Network Industries	5	20

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director

MEng in Electronic and Electrical Engineering with European Studies
MEng in Electronic and Electrical Engineering with International Study

12.46.10

Regulation 12.46.7 shall apply, with students permitted to incorporate up to 40 credits of classes in foreign language or otherwise relevant to international study, approved by the Course Director.

Students who elect to undertake study abroad during fourth or fifth year shall follow an approved curriculum which is equivalent to that specified in these regulations.

12.46.11 *MEng in Electrical Energy Systems*

Compulsory Class
If not already taken

EE 317 Renewable Energy Technologies	3	20
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Optional classes chosen from:

At Levels 3 and 4, Lists A and C in Regulation 11.46.7

At Level 5, Lists A and C in Regulation 12.46.13

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director

12.46.12 *MEng in Electronic and Digital Systems*

Compulsory Class
If not already taken

EE 315 Analogue and Digital System Design	3	20
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Optional classes chosen from:

At Levels 3 and 4, Lists B and C in Regulation 11.46.7

At Level 5, Lists B and C in Regulation 12.46.13

Exceptionally, such other classes totalling no more than 20 credits as approved by the Course Director.

12.46.13 Optional Classes at Level 5

List A: Electrical Energy Systems

EE 573	Advanced Power System Analysis and Protection	5	20
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EE 574	High Voltage Technology and Electromagnetic Compatibility	5	20
EE 575	Power Electronics for Energy and Drive Control	5	20
EE 576	Power System Economics, Markets and Asset Management	5	20
EE 577	Wind Energy and Distributed Energy Resources	5	20
List B: Electronic and Digital Systems			
EE 578	Advanced Digital Signal Processing	5	20
EE 579	Advanced Microcontroller Applications	5	20
EE 580	DSP and FPGA-based Embedded System Design	5	20
EE 581	Image and Video Processing	5	20
List C: General			
EE 582	Control Techniques	5	20
EE 583	Mobile and Wireless Networks	5	20

Progress

- 12.46.14 In order to progress to the second year of the course, a student must have accumulated no fewer than 100 credits from the appropriate course curriculum.
- 12.46.15 In order to progress to the third year of the course, a student must have accumulated no fewer than 220 credits from the appropriate course curriculum, including;
- 12.46.16 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the appropriate course curriculum, including;
- 12.46.17 In order to progress to the fifth year of the course, a student must have accumulated no fewer than 480 credits from the appropriate course curriculum including those for the *Individual Project*.

MEng in Electronic and Electrical Engineering with European Studies
MEng in Electronic and Electrical Engineering with International Study

- 12.46.18 In order to progress to a period of study abroad, a student must normally have passed all classes from the course curriculum. Any student who does not meet this requirement may be required to transfer to another course not requiring study abroad.

Final Assessment and Classification

- 12.46.19 The final classification for the degree of MEng in the chosen course will normally be based on the first attempt at compulsory and optional classes taken in the fourth and fifth years.

Award

- 12.46.20 **MEng:** In order to qualify for the award of the degree of MEng in the chosen course, a candidate must have accumulated no fewer than 600 credits from

the appropriate course curriculum including those for the *Individual Project* and the *Group Project*.

- 12.46.21 *MEng in Electronic and Electrical Engineering with European Studies*
MEng in Electronic and Electrical Engineering with International Study
In addition to satisfying the provisions of Regulation 12.46.26, a candidate must have undertaken successfully no fewer than 30 weeks of approved study abroad.

Transfer

- 12.46.22 A candidate who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to the degree of BEng with Honours in Electronic and Electrical Engineering.

- 12.46.23
to 12.46.30 (Numbers not used)

Electrical and Mechanical Engineering

MEng in Electrical and Mechanical Engineering

MEng in Electrical and Mechanical Engineering with International Study

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Course

- 12.46.31 The course is at Integrated Masters level. Transfer to the BEng in Electrical and Mechanical Engineering is possible at any time subject to satisfying the appropriate progress regulations.

Mode of Study

- 12.46.32 The course is available by full-time study only.

Place of Study

12.46.33 The MEng in Electrical and Mechanical Engineering with International Study requires study at an approved institution abroad. Such study will normally extend over a minimum period of 30 weeks. Subject to availability of an approved curriculum (including any project), study abroad can be undertaken during third, fourth or fifth years of the course. Study abroad may comprise two exchanges with different institutions of one semester each, not necessarily during the same year.

Curriculum

First Year

- 12.46.34 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes	Level	Credits
16 132 Engineering Mechanics 1	1	20
56 110 Engineering Industry and Profession	1	10
EE 107 Electronic and Electrical Principles 1	1	20
EM 105 Electrical and Mechanical Techniques and Design 1	1	20

ME 101	Heat and Flow 1	1	10
16 165	Engineering Analysis 1	1	10
MM 113	Engineering Mathematics 1E	1	20
MM 114	Engineering Mathematics 2E	1	20

Second Year

12.46.35 All students shall undertake classes amounting to 130 credits as follows:

Compulsory Classes		Level	Credits
16 232	Engineering Mechanics 2	2	20
19 207	Electromagnetism	2	10
56 213	Engineering Design and Manufacture	2	10
EE 269	Electronic and Electrical Principles 2	2	20
EE 270	Digital Electronic System	2	20
EE 271	Electronic and Electrical Techniques and Design 2	2	10
ME 203	Heat and Flow 2	2	20
MM 213	Engineering Mathematics 3E	2	20

Third Year

12.46.36 All students shall undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
EE 312	Instrumentation and Microcontrollers	3	20
EE 301	Engineering Analysis	3	20
56 324	Engineering Innovation and Management	3	10
EM 305	Engineering Computing	3	10
EM 310	Signals and Systems	3	10
ME 305	Dynamics 3	3	10
EM 304	Integrated Design	3	20
Elective Classes			20
Optional Classes			
20 credits chosen from:			
EE 311	Electronic and Electrical Principles 3	3	20
ME 301	Heat and Flow 3	3	20

12.46.37 *MEng in Electrical and Mechanical Engineering with International Study*
Students who elect to undertake study abroad during third year shall follow an approved curriculum which is equivalent to that specified in these regulations.

Fourth Year

12.46.38 All students shall undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
EM403	Engineering Business Case Studies and Ethics	4	20
EM 401	Individual Project	4	40
EM 402	Systems Engineering	4	20

Optional Classes

60 credits as specified in Regulation 12.46.42

- 12.46.39 *MEng in Electrical and Mechanical Engineering with International Study*
Students who elect to undertake study abroad during fourth year shall follow an approved curriculum which is equivalent to that specified in these regulations.

Fifth Year

- 12.46.40 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes

EM 501	Group Project	5	40
EM 502	Advanced Systems Engineering	5	20

Optional Classes

60 credits as specified in Regulation 12.46.42

- 12.46.41 *MEng in Electrical and Mechanical Engineering with International Study*
Students who elect to undertake study abroad during fifth year shall follow an approved curriculum which is equivalent to specified in these regulations.

Students who elect to undertake study abroad during both semesters of fourth year will normally be awarded 120 credits for external study at Level 4. Subsequently, during fifth year, they shall undertake classes amounting to 140 credits. Any such student shall take additional optional classes with total value of 40 credits, subject to the requirements of Regulation 12.46.40.

- 12.46.42 **Optional Classes**
Optional Classes in Fourth Year and Fifth Year must be approved by the Course Director and achieve an acceptable balance between the two disciplines. Normally no fewer than 40 credits at Level 4 or above must be taken from optional classes taught by each of the two associated Departments: Electronic and Electrical Engineering, and Mechanical and Aerospace Engineering.

- 12.46.43 Optional Classes at Level 5

Electronic and Electrical Engineering

As specified in Regulation 12.46.13

Mechanical and Aerospace Engineering

As specified in Regulations 12.47.8 and 12.47.9.

Progress

- 12.46.44 In order to progress to the second year of the course, a student must have accumulated no fewer than 110 credits from the course curriculum.

- 12.46.45 In order to progress to the third year of the course, a student must have accumulated no fewer than 240 credits from the course curriculum.
- 12.46.46 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 400 credits from the course curriculum.
- 12.46.47 In order to progress to the fifth year of the course, a student must have accumulated no fewer than 540 credits from the course curriculum including those for the *Individual Project*.

- 12.46.48 *MEng in Electrical and Mechanical Engineering with International Study*
In order to progress to a period of study abroad, a student must normally have passed all classes from the course curriculum. Any student who does not meet this requirement may be required to transfer to another course not requiring study abroad.

Final Assessment and Classification

- 12.46.49 The final classification for the degree of MEng in Electrical and Mechanical Engineering will normally be based on the first assessed attempt at compulsory and optional classes taken in the fourth and fifth years.

Award

- 12.46.50 **MEng:** Notwithstanding Regulation 12.1.9, in order to qualify for the award of the degree of MEng in Electrical and Mechanical Engineering, a candidate must have accumulated no fewer than 660 credits from the course curriculum including those for the *Individual Project EM 401* and the *Group Project EM 501*.
- 12.46.51 *MEng in Electrical and Mechanical Engineering with International Study*
In addition to satisfying the provisions of Regulation 12.46.51, a candidate must normally have undertaken successfully no fewer than 30 weeks of approved study abroad.

Transfer

- 12.46.52 A candidate who fails to satisfy the progress or award requirements for the degree of MEng in Electrical and Mechanical Engineering may be transferred to the degree of BEng with Honours in Electrical and Mechanical Engineering.

12.47 Department of Mechanical and Aerospace Engineering

Mechanical Engineering

- MEng in Aero-Mechanical Engineering**
- MEng in Mechanical Engineering**
- MEng in Mechanical Engineering with Aeronautics**
- MEng in Mechanical Engineering with Automotive Engineering**
- MEng in Mechanical Engineering with Financial Management**
- MEng in Mechanical Engineering with Materials Engineering**
- MEng in Mechanical Engineering with International Study**

Note: The MEng in Mechanical Engineering with Automotive Engineering is available only to students registered prior to session 2010/11.

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

12.47.1 The courses are at Integrated Masters level. Transfer to the BEng degree in Mechanical Engineering or to the BEng with Honours degrees in Aero-Mechanical Engineering, Mechanical Engineering or Mechanical Engineering with International Study is possible at any time subject to satisfying the appropriate progress requirements. Transfer between the MEng degrees may be possible at any time prior to the fourth year of study.

Mode of Study

12.47.2 The courses are available by full-time study only.

Place of Study

12.47.3 The MEng in Mechanical Engineering with International Study requires study at an approved institution abroad. Such study will normally extend over a minimum period of 30 weeks.

Curriculum

First Year

12.47.4 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 132	Engineering Mechanics 1	1	20
EE 108	Electrical Circuits	1	10
ME 101	Heat and Flow 1	1	10
16165	Engineering Analysis 1	1	10
ME 107	Experimental and Laboratory Skills	1	10
ME 105	Mechanical Engineering Design	1	20
MM 117	Mathematics 1M	1	20
Elective Class(es)			20

Second Year

12.47.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 232	Engineering Mechanics 2	2	20
16 288	Professional Studies	2	10
19 222	Electrical Machines and Control	2	10
56 208	Design and Engineering Applications 2	2	10
ME 203	Heat and Flow 2	2	20
ME 209	Mathematical Modelling and Analysis	2	20
ME 2XX	Materials Engineering and Design	2	10

together with classes appropriate to the chosen course:

Mechanical Engineering

Mechanical Engineering with International Study

Mechanical Engineering with Materials Engineering

Elective Class(es) 20

Aero-Mechanical Engineering

Mechanical Engineering with Aeronautics

16 231 Flight and Spaceflight 1 2 10

ME 201 Aero Design and Flight Test 2 10

Mechanical Engineering with Automotive Engineering

16 263 Automotive Systems 1 2 10

Elective Class 10

Mechanical Engineering with Financial Management

AG 151 Introduction to Finance and Accounting 1 20

Students wishing to obtain credits for participation on a Vertically Integrated Project (VIP) shall replace 56 208 Design and Engineering Applications 2 with

VP 2XX Vertically Integrated Project 2 2 10

Third Year

12.47.6 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 361	Dynamics and Control	3	20
16 363	Engineering Analysis 3	3	20
ME 301	Heat and Flow 3	3	20
16 327	Structural Mechanics	3	10
ME 4AA	Strategic Analysis of Engineering Business Case Studies	4	10
ME 416	Engineering Ethics	4	10

together with classes appropriate to the chosen course:

<i>Aero-Mechanical Engineering</i>			
<i>Mechanical Engineering with Aeronautics</i>			
16 351	Flight and Spaceflight 2	3	10
16 309	Aero-Design 2	3	20

<i>Mechanical Engineering</i>			
<i>Mechanical Engineering with Automotive Engineering</i>			
<i>Mechanical Engineering with Financial Management</i>			
<i>Mechanical Engineering with Materials Engineering</i>			
<i>Mechanical Engineering with International Study</i>			
ME 3XX	Mechanical Design 3A	3	10
ME 3YY	Mechanical Design 3B	3	20

Mechanical Engineering with International Study

All students who elect to undertake study abroad in their third year must do so at an approved institution and shall follow an approved curriculum reflecting that undertaken by students taking the Mechanical Engineering course. Such study will normally extend over a minimum period of 30 weeks.

Students wishing to obtain credits for participation on a Vertically Integrated Project (VIP) shall replace ME 4AA Strategic Analysis of Business Case Studies with			
VP 3XX	Vertically Integrated Project 3	3	10

Fourth Year

12.47.7 All students will undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 402	Case Studies in Engineering	4	10
16 429	Computer Aided Engineering Design	4	20
ME 403	Engineering Materials Selection	4	10
ME 409	Individual Project*	4	40
ME 414	Advanced Mechanics and Dynamics	4	20
ME 405	Heat and Flow 4	4	10

together with classes appropriate to the chosen course:

<i>Aero-Mechanical Engineering</i>			
<i>Mechanical Engineering with Aeronautics</i>			
ME 410	Aerodynamic Performance	4	10
<i>Mechanical Engineering</i>			
<i>Mechanical Engineering with Automotive Engineering</i>			
<i>Mechanical Engineering with Financial Management</i>			
<i>Mechanical Engineering with Material Engineering</i>			
<i>Mechanical Engineering with International Study</i>			
ME 404	Energy Systems Modelling	4	10

For students registered for Aero-Mechanical Engineering class ME 409 Individual Project shall be on an Aero-related topic.
ME409 Individual project can be used to contribute towards a Vertically Integrated Project

Fifth Year

12.47.8

All students, with the exception of those following the Mechanical Engineering with International Study course who elect to spend fifth year of studies abroad, shall undertake 120 level 5 credits as follows:

Students following the Mechanical Engineering with International Study course, who do not elect to spend their fifth year of studies abroad will also follow the diet of compulsory and optional classes below.

Compulsory Class

ME 519	Group Project*	5	40
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*For students registered for Aero-Mechanical Engineering class ME 519 Group Project shall be on an Aero-related topic.
ME519 Group Project can incorporate a Vertically Integrated Project.

together with classes appropriate to the chosen course:

Aero-Mechanical Engineering

Compulsory Classes

ME 501	Systems Engineering 1	5	10
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16 599	Aerodynamic Propulsion Systems	5	10
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together with optional classes chosen from Regulation 12.47.9

Mechanical Engineering

Mechanical Engineering with Aeronautics

Mechanical Engineering with International Study

Compulsory Class

ME 501	Systems Engineering 1	5	10
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together with optional classes chosen from Regulation 12.47.9

Mechanical Engineering with Automotive Engineering

Compulsory Classes

ME 505	Machine Dynamics	5	10
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Me 518	Topics in Automotive Engineering	5	10
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together with optional classes chosen from Regulation 12.47.9

Mechanical Engineering with Financial Management

Compulsory Class

ME 515	Finance for Mechanical Engineers	5	60
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together with optional classes chosen from Regulation 12.47.9

Mechanical Engineering with International Study

Students who elect to undertake their period of study abroad in fifth year must do so at an institution acceptable to the Head of Department and shall follow an approved curriculum, which must include the equivalent of the *ME*

519 Group Project and the equivalent Level 5 content required for award of the degree.

Mechanical Engineering with Materials Engineering

Compulsory Classes

16 565	Engineering Composites	5	10
16 568	Ceramic and Polymer Engineering	5	10

together with optional classes chosen from Regulation 12.47.9

Optional Classes

12.47.9

16 565	Engineering Composites	5	10
16 568	Ceramic and Polymer Engineering	5	10
16 587	Pressurised Systems	5	10
16 599	Aerodynamic Propulsion Systems	5	10
ME 501	Systems Engineering 1	5	10
ME 502	Systems Engineering 2	5	10
ME 504	Renewable Energy Systems	5	10
ME 505	Machine Dynamics	5	10
ME 507	Machinery Diagnosis and Condition Monitoring	5	10
ME 511	Mathematical Modelling in Engineering Science	5	10
ME 512	Spaceflight Mechanics	5	10
ME 514	Advanced Topics in Fluid Systems Engineering	5	10
ME 517	Spaceflight Systems	5	10
ME 520	Advanced Research Project A	5	10
ME 521	Advanced Research Project B	5	20

Exceptionally, such other level 5 classes totalling no more than 20 credits as approved by the Course Director.

Class Combinations

12.47.10

Class	Credits	Comprises
ME 515 Finance for Mechanical Engineers	60	Finance classes at an appropriate level as may be approved by the Adviser of Study

Progress

- 12.47.11 Progress to a period of study abroad period is dependent on passing all compulsory classes. A student registered for the Mechanical Engineering with International Study course who does not meet this requirement at this stage will be required to transfer to another course.
- 12.47.12 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum
- 12.47.13 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the chosen course curriculum.
- 12.47.14 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the chosen course curriculum.
- 12.47.15 In order to progress to the fifth year of the course, a student must have accumulated at least 480 credits from the chosen course curriculum.

Final Assessment and Classification

- 12.47.16 The final classification for the degree of MEng in the chosen course will normally be based on:
- (i) the first assessed attempt at compulsory and specified optional classes in the second, third, fourth and fifth years;
 - (ii) if appropriate, an oral examination

Award

- 12.47.17 **MEng:** In order to qualify for the award of the degree of MEng in Aero-Mechanical Engineering or the MEng in Mechanical Engineering or the MEng in Mechanical Engineering with International Study, or the MEng in Mechanical Engineering in the chosen specialisation, a candidate must have accumulated no fewer than 600 credits from the appropriate course curriculum. These must include those for the classes *16402 Case Studies in Engineering*, *ME 409 Individual Project* and *ME 519 Group Project*. In addition, candidates for the degree of MEng in Aero-Mechanical or Mechanical Engineering with International Studies must satisfy the requirements of 12.47.18 or 12.47.19 respectively.

- 12.47.18 In the case of candidates for the MEng in Aero-Mechanical Engineering, both *ME 409 Individual Project* and *ME 519 Group Project* must be on aero-related topics.

- 12.47.20 A candidate for the award of MEng in Mechanical Engineering with International Study in addition must have undertaken no fewer than 30 weeks of approved study abroad. For candidates who have taken their final year abroad, a class equivalent to *ME 519 Group Project* will be accepted in lieu of *ME 519 Group Project*.

Transfer

- 12.47.21 A candidate who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to the degree of BEng in the chosen course where available.

- 12.48 (numbers not used)**

12.49 Department of Naval Architecture and Marine Engineering

Naval Architecture and Marine Engineering

MEng in Naval Architecture and Marine Engineering
MEng in Naval Architecture with Ocean Engineering
MEng in Naval Architecture with Small Craft Engineering

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

12.49.1 The courses are at Integrated Masters level. Transfer between the courses is possible prior to the fourth year. Transfer to the respective BEng degrees in Naval Architecture and Marine Engineering, in Naval Architecture with Ocean Engineering or in Naval Architecture with Small Craft Engineering is possible at any time subject to satisfying the appropriate progress requirements.

Mode of Study

12.49.2 The courses are available by full-time study only.

Curriculum

First Year

12.49.3 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
16 132	Engineering Mechanics 1	1	20
NM 102	Introduction to Naval Architecture and Marine Engineering	1	20
NM 103	Analysis Tools for Marine Design	1	20
MM 111	Mathematics 1B	1	20
MM 112	Mathematics 2B	1	20
Elective Class(es)			20

Second Year

12.49.4 All students shall undertake classes amounting to 120 credits as follows.

Compulsory Classes		Level	Credits
NM 209	Principles of Marine Design and Production	2	20
NM 210	Analysis and Design of Marine Structures 1	2	20
NM 211	Engineering Applications for Naval Architects and Marine Engineers	2	20
NM 212	Hydrostatics and Stability of Marine Vehicles	2	20
NM 213	Marine Engineering Fundamentals	2	20
MM 211	Mathematics 3B	2	20

Third Year

12.49.5 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes	Level	Credits
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NM 313	Hydrodynamics, Resistance and Propulsion	3	20
NM 314	Marine Design	3	20
NM 316	Marine Engineering Systems and Control	3	20
NM 320	Professional Development and Marine Business	3	20
NM 312	Analysis and Design of Marine Structures 2	3	20
NM 323	The Marine Environment	3	10

together with classes appropriate to the chosen course:

Naval Architecture and Marine Engineering

Compulsory Class

NM 324	Principles and Application of Marine Machinery	3	10
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Naval Architecture with Ocean Engineering

Compulsory Class

NM 325	Offshore Oil and Gas Production Systems	3	10
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Naval Architecture with Small Craft Engineering

Compulsory Class

NM 305	Yacht and Powercraft Design	3	10
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Fourth Year

12.49.6

All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
NM 423	Seekeeping and Manoeuvring	4	20
NM 402	Theory and Practice of Marine CFD	4	10
21452	Finite Element Analysis of Marine Structures	4	10

together with classes appropriate to the chosen course:

Naval Architecture and Marine Engineering

Compulsory Classes

NM 421	Marine Power and Electrical Systems	4	20
NM 428	Marine Engineering Project	4	40
NM 415	Marine Refrigeration and Air Conditioning	4	10
NM 409	Marine Transmission and Propulsion Systems	4	10

Naval Architecture with Ocean Engineering

Compulsory Classes

NM 430	Ocean Engineering Project	4	40
NM 404	Ship Structural Dynamics	4	10
NM 435	Structural Reliability	4	10
NM 436	Dynamics of Offshore Structures	4	20

Naval Architecture with Small Craft Engineering

Compulsory Classes

NM 426	Yacht and High Speed Craft Performance	4	20
NM 429	Small Craft Engineering Project	4	40
NM 404	Ship Structural Dynamics	4	10

NM 435	Structural Reliability	4	10
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Fifth Year

12.49.7 All students shall undertake classes amounting to 120 credits (which must bring the total studied at Level 5 to at least 120 credits) as follows:

Compulsory Classes		Level	Credits
NM 502	Group Design Project	5	40
NM 508	Advanced Marine Design	5	20
21520	Waterborne Transportation Systems	5	10
21551	The Marine Regulatory Framework	5	10
NM522	Renewable Marine Energy Systems	5	10
NM524	On-board Energy Management and Environment Protection	5	10

together with classes appropriate to the chosen course:

Naval Architecture and Marine Engineering

Compulsory Classes

No fewer than 20 credits chosen from:

21525	Advanced Marine Engineering	5	10
21526	Marine Engineering Simulation & Modelling	5	10
NM523	Systems Availability and Maintenance	5	10

Naval Architecture with Ocean Engineering

Compulsory Classes

NM 521	Risers and Mooring Lines	5	10
NM513	Design and Construction of FPSO's	5	10
NM523	Systems Availability and Maintenance	5	10

Naval Architecture with Small Craft Engineering

Compulsory Classes

NM 507	Fibre Reinforced Marine Plastic Structures	5	10
NM 507	Computational Free Surface Hydrodynamics	5	10
NM523	Systems Availability and Maintenance	5	10

Progress

- 12.49.8 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum.
- 12.49.9 In order to progress to the third year of the course, a student must have accumulated at least 220 credits from the course curriculum.
- 12.49.10 In order to progress to the fourth year of the course, a student must have accumulated at least 360 credits from the course curriculum.
- 12.49.11 In order to progress to the fifth year of the chosen course, a student must have accumulated at least 480 credits from the appropriate course curriculum including those for the class *NM 428 Marine Engineering Project* or *NM 430 Ocean Engineering Project* or *NM 429 Small Craft Engineering Project*.

Final Assessment and Classification

- 12.49.12 On successful completion of the fifth year, a candidate will be awarded Level 5 credits corresponding to the classes taken.
- 12.49.13 The final classification for the degree of MEng in the chosen course will normally be based on the first assessed attempt at compulsory and specified optional classes taken in the third, fourth and fifth years.

Award

- 12.49.14 **MEng:** In order to qualify for the award of the degree of MEng in the chosen course, a candidate must have accumulated no fewer than 600 credits from the course curriculum including those for the class *NM 502 Group Design Project*.

Transfer

- 12.49.15 A candidate who fails to satisfy the progress or award requirements for the degree of MEng may be transferred to the degree of BEng in Naval Architecture and Marine Engineering, BEng in Naval Architecture with Ocean Engineering or BEng in Naval Architecture with Small Craft Engineering.
- 12.49.16
to 12.80 (Numbers not used)

12.81 International Business with Modern Languages

Master in International Business with Modern Languages

Course Regulations

[These regulations are to be read in conjunction with Regulation 12.1]

Status of the Courses

- 12.81.1 The course is at Integrated Masters level. Transfer to the relevant BA degree is possible at any time, subject to satisfying the appropriate progress regulations.

Mode of Study

- 12.81.2 The course is available by full-time study only.

Place of Study

- 12.81.3 The course includes study in the fourth year at a Business School or equivalent in the country of the main chosen language.

Course Structure

- 12.81.4 In the first year of study, all students shall undertake a curriculum which includes the classes *BF 101 Management Development Programme 1* and *MG 111 Foundations of Management and International Business*. At the end of the first year of study, all students shall choose two subjects from this curriculum to study further, one of which shall be a Business subject and will become their Principal Subject in business. In addition students can choose either two main languages to study to fourth year, following the two languages taken in first year or follow one main language to fourth year and take an additional new language for one year. These shall be known as the Principal Subjects.
- 12.81.5 Over the second and third years of study, all students shall undertake a curriculum which centres on classes in the two chosen Principal Subjects and includes the classes *BF 201 Management Development Programme 2*, *BF 301 Management Development Programme 3*, *MG 205 International Business Analysis* and *MG 306 Managing Across Cultures and Frontiers*.
- 12.81.6 A Principal Subject shall comprise classes amounting to no fewer than 100 credits (normally 20 at Level 1, 40 at Level 2 and 40 at Level 3).
- 12.81.7 Students are required to study two modern languages at Level 1, undertaking 20 credits in each language.
- 12.81.8 The fourth year will normally be spent at a Business School or equivalent in the country of the main language where the student will attend an approved set of classes or participate in alternative work tasks. Students are expected to undertake a curriculum that approximates to 120 credits, 80 of which should relate to their Business subject and 40 of which should be in their chosen Modern Language, including an element of language tuition.
- 12.81.9 In their fifth year, students will normally undertake a project with an international business dimension amounting to 40 credits, together with the 20-credit compulsory class *MG 5xx Issues and Trends in International Business*, normally a 20-credit Business Subject taught in their Modern Language, and optional classes amounting to 40 credits in their chosen languages or any other class approved by the Course Director.

Principal Subject Requirements

12.81.10 See Regulation 11.80.11.

Curriculum

First Year

12.81.11 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BF 101	Management Development Programme 1	1	20
MG 111	Foundations of Management and International Business	1	20

Optional Classes

40 credits chosen from:

AG 111	Accounting Technologies *	1	20
AG 151	Introduction to Finance and Accounting**	1	20
EC 111	Introduction to Economics	1	20
HR 111	Managing People	1	20
MK 111	Introduction to Marketing	1	20
MS 111	Foundations of Business Analysis	1	20
MS 151	Harnessing Technology for Business	1	20
SH 111	Introduction to Hospitality and Tourism Management	1	20
Z1 151	Entrepreneurship Theory and Practice	1	20

* Only available to students admitted onto a degree which includes Accounting may take this class.

** Students taking AG 111 Accounting Technologies may not take this class.

together with 40 credits chosen from:

either

R1 111	French 1	1	20
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or

R1 103	Introduction to French for IBML	1	20
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either

R3 110	Italian 1	1	20
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or

R3 101	Introduction to Italian for IBML	1	20
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either

R4 103	Spanish 1	1	20
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or

R4 101	Introduction to Spanish for IBML	1	20
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R9 100	Aspects of Cinema 1	1	20
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either

OS 045	German 1A	1	20
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Or

OS046	German 1B	1	20
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Either				
OS 251	Chinese (Mandarin) 1		1	20
Or				
OS 252	Chinese (Mandarin) 2		1	20

Second Year

12.81.12 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BF 201	Management Development Programme 2	2	20
MG 205	International Business Analysis	2	20
Principal Subject 1 (Business)		2	40
Principal Modern Language		2	20
Language Option		2	20

Third Year

12.81.13 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
BF 301	Management Development Programme 3	3	20
MG 306	Managing Across Cultures and Frontiers	3	20
Principal Subject 1 (Business)		3	40
Principal Modern Language		3	20
Language Option		3	20

Fourth Year

12.81.14 The fourth year will normally be spent at a Business School or equivalent in the country of the main language where the student will attend an approved set of classes or participate in alternative work tasks. During their fourth year, all students are expected to undertake a curriculum that consists of 120 credits, 80 of which should relate to their Business education, including a 20-credit elective at an appropriate level, and a 40 credit project which should be in their chosen Modern Language(s), including an element of language tuition.

Compulsory Classes		Level	Credits
EX 404	IBML International Exchange	4	120

Fifth Year

12.81.15 All students shall undertake classes amounting to 120 credits as follows:

Compulsory Classes		Level	Credits
MG 5XX	Issues and Trends in International Business	5	20

together with

a 40 credit Dissertation at Level 5 in the chosen Principal Business subject, with an international focus,

and

20 credits chosen from list A and 40 credits in the chosen languages from list B:

List A

Classes		Level	Credits
AG509	Advanced Derivatives	5	20
AG508	Advanced Portfolio Analysis	5	20
AG507	Asset Pricing	5	20
AG510	Behavioural Finance	5	20
AG511	Corporate Financing	5	20
AG512	Corporate Investment	5	20
AG513	Financial Quantitative Methods	5	20
AG506	International Corporate Governance	5	20
AG514	International Finance Management	5	20
Z1503	International Entrepreneurship	5	20
EC500	Industrial Economics	5	20
HR500	HRM and Employment Relations in Public Services	5	20
MG500	Contemporary Issues in Management	5	20
MG501	Strategy and Leadership	5	20
MG502	Management, Enterprise and the Rise of the Global Economy	5	20
MG505	An Introduction to Social Research Methods for Business (Management)	5	20
MG506	An Introduction to Social Research Methods for Business (HTM)	5	20
MG507	Dynamics of Organising	5	20
MS508	Management Science 4	5	20
MK500	Brand Management	5	20
HR501	Advanced Organisation Behaviour	5	20

List B

To be confirmed

Progress

- 12.81.16 In order to progress to the second year of the course, a student must have accumulated at least 120 credits from the course curriculum.
- 12.81.17 In order to progress to the third year of the course, a student must have accumulated at least 240 credits from the course curriculum
- 12.81.18 In order to progress to the fourth year of the course, a student must have accumulated no fewer than 360 credits from the course curriculum.
- 12.81.19 In order to progress to the fifth year of the course, a student must have accumulated no fewer than 480 credits from the course curriculum.
- 12.81.20 Candidates should note that there is no corresponding BA with Honours degree available. Therefore, any candidate who fails to satisfy the progress requirements on to level five will be transferred to level three of the BA in International Business with Modern Languages degree, and any credits they may have accumulated at Level Four will not be considered in the degree (but they will be recorded as 'personal credits' on their transcript). Candidates who complete Level Four to the satisfaction of the Board of Examiners but who are unable due to personal reasons to progress to level 5, may be considered for an exit award of BA Honours (unclassified) in

International Business with Modern Languages– this is an exit award only and is awarded subject to the discretion of the Board of Examiners.

Final Assessment

12.81.21 On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits corresponding to the classes taken.

Award

12.81.22 **Masters:** In order to qualify for the award of the degree of Masters in International Business with Modern Languages, a candidate must have obtained no fewer than 600 credits from the course curriculum.

12.81.23 **Distinction in the Spoken Language(s):** A candidate who qualifies for the award of a Masters in International Business with Modern Languages degree and who has, according to prescribed criteria and in the opinion of the Board of Examiners, attained a high level of performance in the oral Modern Language examination(s) may be awarded the Masters degree with distinction in the spoken language(s).

Transfer

12.81.24 A candidate who fails to satisfy the progress or award requirements for the degree of Masters may be transferred to the degree of BA in International Business with Modern Languages.

Transfer to the BA in Business or the BA in International Business will be considered for students who fail to satisfy the Board of Examiners in the Modern Language.

13.1

Elective Classes

[Note: the following list of elective classes is not exhaustive but consists of those classes which are offered only as electives and which are not recorded elsewhere in the course regulations]

		Level	Credits
16 130	Introduction to Engineering	1	10
17 120	Introduction to Geology	1	10
17 141	Transportation	1	10
22 147	Freehand Drawing 1	1	10
22 158	Introduction to Computing	1	10
22 159	IT Skills Induction Programme	1	10
23 101	Pharmaceutical sciences and Drug Development	1	10
52 226	Approaches to Multimedia	1	10
57 102	Herbal Medicines	1	10
65 101	Biomedical Engineering	1	10
AG 103	Introduction to Accounting	1	10
AG 104	Introduction to Finance	1	10
CA 123	Music in Society	1	10
CH 110	Practical Chemistry Skills	1	10
CU 101	Using ICT to Enhance Teaching and Learning of People in the Past	1	10
EN 101	Disability and Society	1	10
EN 104	Understanding and Responding to Challenging Behaviour	1	10
EN 105	Understanding Inclusive Education	1	10
H2 101	Sustainable Development by Topic Study	1	10
H4 101	Disability and Society	1	10
LE 101	Celtic Studies	1	10
LE 102	Gaelic Language, Culture and Arts	1	10
MM 106	Essential Statistics	1	10
MM 107	Data Analysis and Protection	1	10
MM 108	Applying Mathematics 1	1	10
MM 109	Applying Mathematics 2	1	10
MM 118	Foundation Statistics	1	10
MT 103	Science and Technology Today	1	10
PE 113	Sustainable Development	1	10
SC 103	Introduction to Creative Arts 1	1	10
SC 104	Pottery for Beginners	1	10
SC 122	Challenging Learning 1: An Introduction	1	10
X5 134	Improve your Powers of Communication	1	10
X5 135	Technological Education in Scotland	1	10
X7 107	Understanding and Supporting Childhood (Sem 1)	1	10
X9 102	Understanding and Supporting Childhood (Sem 1)	1	10
XF 102	Information and Communication Technology	1	10
XF 108	Digital Photography 1 (Semester 1)	1	10
XF 109	Digital Photography 1 (Semester 2)	1	10
L5 113	International Perspectives in Social Work	1	20
XF 126	Digital Photography and Image Manipulation	1	20
XX XXX	Understanding and Responding to Domestic Abuse	1	20
XX XXX	French 1 (Beginners)	1	20
XX XXX	Spanish 1 (Beginners)	1	20

XX XXX	German 1 (Beginners)	1	20
XX XXX	Portuguese 1 (Beginners)	1	20
XX XXX	Italian 1 (Beginners)	1	20
XX XXX	Polish 1 (Beginnners)	1	20
XX XXX	Proficiency English	1	20
XX XXX	Intermediate English	1	20
XX XXX	Advanced English	1	20
18 250	Introduction to Process Biotechnology	2	10
22 246	Architectural Workshop 2	2	10
22 247	Freehand Drawing 2	2	10
22 260	Introduction to AutoCAD	2	10
53 202	Statistics for Engineers	2	10
CA 223	Broadcasting: Radio and On-line	2	20
MM 212	Mathematics 2	2	10
MM 217	Mathematics 2M	2	10
OS 475	Digital Photography 2 – The Digital Dark Room	2	10
SC 219	Multi-Disciplinary Outdoor Learning	2	10
SC 241	Video Production	2	20
SC 242	Video Animation	2	20
XF 201	Social Justice in Professional Roles	2	10
XX XXX	French 2 (Lower Intermediate)	2	20
XX XXX	Spanish 2 (Lower Intermediate)	2	20
XX XXX	German 2 (Lower Intermediate)	2	20
XX XXX	Portuguese 2 (Lower Intermediate)	2	20
XX XXX	Italian 2 (Lower Intermediate)	2	20
XX XXX	Polish 2 (Lower Intermediate)	2	20
17 359	Interdisciplinary Project 1	3	10
17 360	Interdisciplinary Project 2	3	20
ED 314	Art and Childhood	3	10
Z1 116	Entrepreneurship: Implementing Entrepreneurship	3	20
Z1 313	Social and Community Enterprise Volunteering	3	20
QQ 324	TextLab 3		
XX XXX	French 3 (Intermediate/Lower Intermediate)	3	20
XX XXX	Spanish 3 (Intermediate/Lower Intermediate)	3	20
XX XXX	German 3 (Intermediate/Lower Intermediate)	3	20
XX XXX	Portuguese 3 (Intermediate/Lower Intermediate)	3	20
XX XXX	Italian 3 (Intermediate/Lower Intermediate)	3	20
XX XXX	Polish 3 (Intermediate/Lower Intermediate)	3	20
18 417	Chemical Engineering Project (* <i>available to incoming exchange students only</i>)	4	20
22 465	Generative Design Systems	4	10
SC 409	Art in the Environment	4	10
X8 401	Personal Development in a Professional Context	4	10
QQ 407	TextLab 4		

13.2 Research Training and Instructional Classes

[Note: the following list of Research Training and Instructional Classes is not exhaustive but consists of those classes which are not recorded elsewhere in the Calendar.]

CH 902	Research Training and Instruction	5	25
CH 903	Supplementary Research Training and Instruction	5	5
CH 904	Supplementary Research Training and Instruction	5	10
CH 905	Research Training and Instruction (MPhil)	5	15
CH 905	Research Training and Instruction	5	15
Z1 932	Technology Commercialisation and New Business Development	5	10
PH 966	Becoming an Engaging Researcher	5	10

13.3 Continuing Professional Development Classes

[Note: the following list of Continuing Professional Development Classes is not exhaustive. It consists of classes which are not recorded elsewhere in the course regulations]

MS 924	Spreadsheet Modelling and Demand Forecasting	5	10
MS 925	Strategy Modelling and Management	5	10
MS 940	Foundations of Operational Research and Business Analysis	5	5
MS 941	Foundations of Quantitative Business Analysis	5	5
MS 942	Quantitative Business Data Analysis	5	5
MS 943	Deterministic Operational research Algorithms	5	5
MS 944	Modelling with Uncertainty	5	5
MS 945	System Dynamics	5	5
MS 946	Discrete Event Simulation	5	5
MS 947	Multi-criteria Decision Analysis and Game Theory	5	5
MS 948	Decision Analysis with Bayes Nets	5	5
MS 949	Fundamentals of Risk Analysis	5	5
MS 955	Problem Structuring Methods	5	5
MS 9XX	Managing Business Operations	5	5
MP 969	Researcher Skills Training 1	5	10
MP 970	Researcher Skills Training 2	5	15
SF 928	Organisation of the University of Strathclyde Research Day	5	15

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

Any queries about the contents of the Course Regulations should be directed to the Academic Quality Officer, Education Enhancement, University of Strathclyde, Glasgow G1 1XQ (Telephone 0141 548 4967).