

# General and Course Regulations for Degrees of Bachelor and Integrated Master 2014-15

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Version 2

General and Course Regulations for Degrees of Bachelor and  
Integrated Master 2014-14.

(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)*

<b>Award</b>	<b>Minimum Period of Study</b>
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)*

<b>Award</b>	<b>Maximum Period of Study</b>
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)*

<b>Award</b>	<b>Maximum Period of Study</b>
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 (if appropriate); 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). Note 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 the first assessed attempt at the approved classes that are taken in the third and fourth years.

**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	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
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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or other classes as approved by the Course Director

**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 the first assessed attempt at compulsory and specified optional classes which are taken in the third and fourth year of the course.

**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 108 Practical and Transferable Skills	1	10
MM 116 Mathematics 1C	1	20
Elective Class(es)		20

##### Second Year

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

Compulsory Classes	Level	Credits
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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
MP 217	Pharmaceutics	2	20

### 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

or other classes as approved by the Course Director

### 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*.

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 the first assessed attempt at compulsory and specified optional classes which are taken in the third and fourth year of the course.

#### **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 480 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 107 Chemistry: Principles and Practice 2	1	20
CP 101 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 306	Chemical Engineering Design and Advanced Information Technology	3	20
CP 316	Reactors	3	10
CP 317	Chemical Engineering Practice	3	10

### **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

*CH 430 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		

or other classes as approved by the Course Director

**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 the first assessed attempt at compulsory and specified optional classes taken in the third and fourth year.

**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 112	Business Analysis and Technology	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 210	Analysing and Improving Operations	2	20
MS 211	Managing Business Processes and Information Systems	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
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CS 308	Building Software Systems	3	20
CS 312	Web Applications Development	3	20
CS 313	Computer Systems and Concurrency	3	20
CS 317	Mobile App Development	3	20
MS 308	Working in Today's Virtual World	3	20

#### Optional Classes

MS 306	Information Systems Support for Managers	3	20
MS 307	Knowledge Management	3	20

#### 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 417 *Business Information Systems*.

11.13.11 The final Honours classification will normally be based on the first assessed attempt at all classes taken at Levels 3 and 4.

### **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 109	Topics in Computing 1	1	10
CS 110	Combinatorics for Computer Science 1	1	10
MS 108	Business Analysis & Technology (Sem 1)	1	10

Elective Class	10
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### **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
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### **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 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
CS 317	Mobile App Development	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 418 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
CS 414	Digital Forensics	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 418 Computer Science*.

11.13.31 The final Honours classification will normally be based on the first assessed attempt at all classes taken at Levels 3 and 4.

### **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 313	Computer Systems and Concurrency	3	20
CS 317	Mobile App Development	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 408 Individual Project	4	40

\*CS 419 *Computer Science with Law* comprises:

M9 426 Computer Law	4	20
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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.

### 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 the first assessed attempt at classes taken at Levels 3 and 4.

### **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 109	Topics in Computing 1	1	10
CS 110	Combinatorics for Computer Science 1	1	10
MS 108	Business Analysis & Technology (Sem1)	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 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
CS 317	Mobile App Development	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 Software Engineering 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 the first assessed attempt at all classes taken at Levels 3 and 4.

### **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 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 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 the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years.

**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
Elective Class(es)			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 317	Mobile App Development	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	Communicating 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 the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years.

### **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
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**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
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**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	Communicating 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 the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years.

### **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 218	Intermediate Financial Reporting	2	20
AG 219	Cost and 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
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****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 215	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
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MM 404	to Financial Derivatives	4	20
MM 407	Statistical Modelling and Analysis	4	20
MM407	Applied Statistics in Society	4	20
<b>List B</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.

<b>List C</b>			
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*.

11.15.68 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*.

11.15.69 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 218 Intermediate Financial Reporting* and *AG 219 Cost and Management Accounting*.

11.15.70 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 218 Intermediate Financial Reporting* and *AG 219 Cost and Management Accounting*.

11.15.71 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 those for the classes *AG 309 Governing and Accounting Ethics*, *AG 308 Auditing and Assurance*, *AG 310 Advanced Financial Reporting* and *AG 311 Contemporary Management Accounting*.

#### **Final Assessment and Classification**

11.15.72 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *MM 450*.

11.15.73 The final classification for the degree of BSc with Honours in Mathematics, Statistics and Accounting will normally be based on the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years.

#### **Award**

11.15.74 **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.

11.15.75 **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 218 Intermediate Financial Reporting*, *AG 219 Cost and Management Accounting*, *AG 309 Governance and Accounting Ethics*, *AG 308 Auditing and Assurance*, *AG 310 Advanced Financial Reporting* and *AG 311 Contemporary Management Accounting*.

11.15.76 **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.

11.15.77 **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.

11.15.78  
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 212 Microeconomics 2	2	20
EC 213 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
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

**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 or 31 490	Communicating Mathematics and Statistics Project BSc (Economics)	4	20
		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*.

11.15.89 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*.

11.15.90 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 212 Microeconomics 2* and *EC 213 Macroeconomics 2*.

11.15.91 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 212 Microeconomics 2* and *EC 213 Macroeconomics 2*.

11.15.92 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)**

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

**Final Assessment and Classification**

11.15.94 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.

11.15.95 The final classification for the degree of BSc with Honours in Mathematics, Statistics and Economics will normally be based on the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years.

**Award**

11.15.96 **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.

11.15.97 **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 212 Microeconomics 2*, *EC 213 Macroeconomics 2* and *EC 311 Introduction to Econometrics*.

11.15.98 **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.

11.15.99 **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.

## **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 215	Business Finance	2	20
AG 217	Portfolio Management and Security 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
MM 206	Mathematical and Statistical Computing	2	20

**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 List A or another class approved by the Course Director; and by other students from Lists A and B.

**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**

Classes in Regulations 11.15.4 and 11.15.5 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 or 40 490	Communicating Mathematics and Statistics Project (BSc Finance)	4	20 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*.

11.15.108 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*.

11.15.109 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 215 Business Finance* and *AG 217 Portfolio Management and Security Analysis*.

11.15.110 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 215 Business Finance* and *AG 217 Portfolio Management and Security Analysis*.

11.15.111 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

11.15.112 On successful completion of the fourth year, a candidate will be awarded 120 Level 4 credits under the class code *MM 470*.

11.15.113 The final classification for the degree of BSc with Honours in Mathematics, Statistics and Finance will normally be based on the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years.

### Award

11.15.114 **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.

11.15.115 **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 215 Business Finance*, *AG 217 Portfolio Management and Security Analysis*, *AG 306 Security Analysis* and *AG 307 Treasury Management and International Finance*.

11.15.116 **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.

11.15.117 **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.

11.15.118 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 112 Business Analysis and Technology		
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 206	Analysing and Improving Operations	2	20
MS 211	Managing Business Processes and Information Systems	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 307	Knowledge Management	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 or 48 490	Communicating Mathematics and Statistics Project (BSc Management Science)	4	20 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	

\*\*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 112 Business Analysis* and Technology.

11.15.128 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 112 Business Analysis* and Technology.

11.15.129 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 211 Managing Business Processes and Information Systems*.

11.15.130 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 211 Managing Business Processes and Information Systems*.

11.15.131 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

11.15.132 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*.

11.15.133 The final classification for the degree of BSc with Honours in Mathematics, Statistics and Management Science will normally be based on the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years.

**Award**

11.15.134 **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.

11.15.135 **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 112 Business Analysis and Technology*, *MS 211 Managing Business Processes and Information Systems* and *MS 309 Business Analysis and Consulting Projects*.

.11.15.136 **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.

11.15.137 **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
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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

### **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	Introductory Astronomy	1	10
PH 161	Universe and Everything	1	10
PH 162	How Things Work	1	10
PH 163	Images	1	10
PH 164	Physics In the Open Air	1	10
PH 165	Engineering Physics	1	10
PH 166	Foundation Physics	1	20
PH 167	Physical Electronics	1	10
PH 168	Foundation Physics A	1	10
PH 169	Foundation Physics B	1	10
PH 170	All You Ever Wanted To Know About Physics But Were Too Afraid to Ask	1	20
PH 260	Physical Electronics	2	10
MM 211	Mathematics 3B	2	20
MM 311	Mathematics 4B	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 the first assessed attempt at compulsory and optional Level 3 and Level 4 classes.

### **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)

## 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

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

<i>Immunology and Pharmacology</i>				
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 the first assessed attempt at compulsory and specified optional classes in the third and fourth years.

#### **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 11.22.50 (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
<b>Optional Classes</b>			
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 406	Advanced Drug Discovery	4	10
MP 424	Bench to Bedside	4	40

### 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 the first assessed attempt at compulsory and specified optional classes at levels three and four.

### **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 the first assessed attempt at compulsory Level 3 and Level 4 classes.

### 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 with Honours in Chemistry with Teaching** **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

## Optional Classes

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)

20

Or other approved classes in Physics

## Second Year

11.29.5 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 I	2	20
CH 213	Forensic Trace Analysis and Analytical Chemistry	2	20
CH 214	Practical Organic and 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 313 Practical Physical, Applied, Forensic & 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

20 credits chosen from:

CH 316 Analytical Chemistry and Drugs of Abuse	3	20
or		
CH 323 Chemical Biology	3	20

Students can only choose CH 323 if they already have BM 102 Molecular Bioscience.

### Fourth Year

11.29.7 All students shall normally undertake classes amounting to 140 credits as follows:

Compulsory Classes	Level	Credits
CH 458 Distance Learning Assignment	4	20
X9 917 Pedagogy and Placement Learning 1A	4	40
X9 909 Educational Studies 1 (PGDE Level 4)	4	40
X9 923 Pedagogy and Curriculum Chemistry with Science 1 (PGDE Level 4)	4	40

### 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 with Honours: In order to qualify for the award of the degree of BSc with Honours in Chemistry with Teaching, a candidate must have accumulated no fewer than 500 credits from the course curriculum including the credits for all the compulsory Education classes taken individually.

11.29.13 **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 480 credits from the course curriculum including the credits for all the compulsory Education classes taken individually.

### **Transfer**

11.29.14 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.

11.29.15  
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
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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 the first assessed attempt at compulsory and specified optional classes at Levels 3 and 4 taken in the third and fourth years.

#### **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

Or

PH 461 Physics with Teaching Project 4 20

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 the first assessed attempt at compulsory and optional Level 3 and Level 4 classes.

#### **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 the first assessed attempt at compulsory and optional classes taken in the third and fourth years.

### **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
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**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 the first assessed attempt at all classes at Levels three and four.

### **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:

		Level	Credits
	Optional Classes	1	100
	Engineering Classes		

Elective Class(es) 20

###### **Second Year**

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

		Level	Credits
	Optional Classes	2	60
	Engineering Classes	1 or 2	40
	Engineering Classes		

Elective Class(es) 20

###### **Third Year**

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

		Level	Credits
	Optional Classes	3	60
	Engineering Classes	2 or 3	40
	Engineering Classes		

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
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### **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 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**

11.41.13 The final Honours classification will normally be based on the first assessed attempt at compulsory classes which are taken in the fourth year.

### **Award**

11.41.14 **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.

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

11.41.16 **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.

11.41.17 **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**

11.41.18 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 Engineers1		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
56 208	Design and Engineering Applications 2	2	10
BE 200	Engineering Mechanics in Biomedical Engineering	2	20
BM 203	Cell and Molecular Biology	2	20
EE 269	Electronic and Electrical Principles 2	2	20
EE 270	Digital Electronic Systems	2	20
ME 209	Mathematical Modelling and Analysis	2	20
ME 212	Materials Engineering and Design	2	10

##### Third Year

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

Compulsory Classes	Level	Credits
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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
BE104 Foundations for Interprofessional Practice	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
* <i>Patient-based clinical education and practice</i>		

#### **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

##### Optional Class

4 20

##### Optional Classes

20 credits chosen from:

BE xxx Wheelchairs and Seating	4	20
BE 411 Upper Limb Prosthetics	4	20
BE 408 Hip, Knee & Ankle Disarticulation Prosthetics	4	20
BE 410 Lower Limb Prosthetic Design	4	20
BE 413 Orthotic Management of Spinal Deformity	4	20
BE 407 Orthotic Management of Neurological Conditions	4	20
BE 412 Clinical Governance	4	20
BE 415 Clinical Gait Analysis	4	20
BE xxx Orthotic Management of the Diabetic Foot	4	20
BE 414 Paediatric Lower Limb Prosthetics	4	20

\* 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, including 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 212	Process Safety Fundamentals	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 316	Reactors	3	20
CP 315	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

#### **Final Assessment and Honours Classification**

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

#### **Award**

11.43.13 **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.

11.43.14 **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.

11.43.15 **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.

11.43.16 **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**

11.43.17 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.

11.43.18 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 104 Mathematics Bridging for Chemical Engineering	1	10
CP 211 Chemical Engineering Principles and Thermodynamics	1	20
CP 208 Fluid Flow and Heat Transfer	2	20
CP 210 Chemical Engineering Safety	3	10

#### **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 the first assessed attempt at compulsory and specified optional classes which are taken in the second and third years.

**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 329 Engineering Mathematics	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
CL438 Project Planning	4	10

#### **Optional Classes**

No fewer than 30 credits chosen from:

CL436 Transport Planning	4	10
CL437 Project Analysis	4	10
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.

### **Transfer**

11.44.16 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 329 Engineering Mathematics	3	20
CL 328 Environmental Engineering	3	10
CL 330 Transport Engineering	3	10
CL 305 Construction Project Management	3	10

### Optional Classes

No Fewer than 10 credits chosen from:

CL 327 Engineering for International Development	3	10
VP 301 Vertically Integrated Project 301	3	10
VP 302 Vertically Integrated Project 302	3	10

### **Fourth Year**

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

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 438 Project Planning	4	10

No fewer than 20 credits chosen from:

<i>Civil Engineering</i>				
CL 418	Structural Engineering 2	4	20	
CL 435	Prestressed Concrete, Composite Materials and Structural Stability	4	10	

<i>Civil and Environmental Engineering</i>				
CL 423	Solid Waste Management and Contaminated Land	4	20	

No fewer than 20 credits chosen from:

CL 436	Transport Planning	4	10
CL 437	Project Analysis	4	10
CL 418	Structural Engineering 2	4	20
CL 435	Prestressed Concrete, Composite Materials and Structural Stability	4	10
CL 423	Solid Waste Management and Contaminated Land	4	20
CL 431	Pollution and Rehabilitation of Degraded Ecosystems	4	10

#### 11.44.27

##### List A: Civil Engineering

CL 422	Transport Planning	4	20
CL 418	Structural Engineering 2	4	20
CL 435	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

Exceptionally, such other classes totalling no more than 20 credits at Level 4 as approved by the Course Director.

#### Progress

11.44.28 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.

11.44.29 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.

11.44.30 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**

11.44.31 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
CL 433	Contaminated Land Management	4	20
CL 425	Final Year Research Project	4	40
CL 426	Food Safety and Meat Hygiene	4	20
CL 430	Principles of Environmental Microbiology	4	10
CL 431	Pollution and Rehabilitation of Degraded Ecosystems	4	10
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	1	10

##### Third Year

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

Compulsory Classes	Level	Credits
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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.

11.45.11 **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 218	New Venture Planning	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
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#### 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.

11.45.36 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
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
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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 100	Anatomy and Physiology for Biomedical Engineers	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 201	Biomechanics of Human Movement – Theory	2	20
BE 202	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 6503 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 405 Sports Injury and Rehabilitation	4	20
BE 400 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 Electronics	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	Phycicsl 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

#### **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 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
EM 105	Electronic 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**

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
EM 271	Electronic and Mechanical 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
EM 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

#### **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 212	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 201	Vertically Integrated Project 201	2	10
Or			
VP 202	Vertically Integrated Project 202	2	10

**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 415	Strategic Analysis of Engineering Business		
	Case Studies	4	10
ME 416	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 ME415 Strategic Analysis of Business Case Studies with

VP 301	Vertically Integrated Project 301	3	10
Or			
VP 302	Vertically Integrated Project 302	3	10

#### **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 the first assessed attempt at compulsory and specified optional classes taken in the second, third and fourth years.

### **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.

11.47.19 to  
11.49 (numbers not used)

**11.49 Department of Naval Architecture Ocean and Marine Engineering  
Naval 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 High Performance Marine Vehicles**  
**BEng in Naval Architecture and Marine Engineering**  
**BEng in Naval Architecture with Ocean Engineering**  
**BEng in Naval Architecture with High Performance Marine Vehicles**  
**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 an appropriate MEng degree 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
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### Third Year

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

Compulsory Classes		Level	Credits
NM 312	Analysis and Design of Marine Structures 2	3	20
NM 313	Hydrodynamics, Resistance and Propulsion	3	20
NM 314	Marine Design	3	20
NM 316	Marine Engineering Systems and Control	3	20
21 370	Marine Business and Financial Management	3	10
NM 323	The Marine Environment	3	10

### Optional Classes

*Either*

NM 327	Professional Development	3	10
Or			
EF 300	STEM Engagement and Support	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 High Performance Marine Vehicles

##### 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

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*

<b>Compulsory Classes</b>				
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	
<b>Naval Architecture with High Performance Marine Vehicles</b>				
<b>Compulsory Classes</b>				
NM 438	High Performance Marine Structures	4	20	
NM 439	High Performance Sailing Yachts	4	10	
NM 437	High Speed Ships	4	10	
NM 440	High Performance Marine Vehicles Project	4	40	

### **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 *NM429 High Performance Marine Vehicles 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, 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.

11.49.16  
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.

11.80.6 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**

11.80.7 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.

11.80.8 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*.

11.80.9 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.

11.80.10 The credits for a class may count towards the credit requirements for one of the Principal Subjects only.

### **Principal Subject and Honours Requirements**

11.80.11	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

### **Permissible Combinations of Subjects for Pass and Honours Degrees**

Subjects are normally available in the following combinations:

#### **Accounting ^**

H	Business Enterprise				<i>Business Subjects</i>						
H	H	Business Analysis and Technology									
H		Business Technology									
H	H	H	Economics		<i>Business Subjects</i>						
H	H	H	H	H							
H	H	H	H	H	Finance						
H	H	H	H	H	Hospitality and/or Tourism						
H	H	H	H	H	Human Resource Management						
H	H	H	H	H	Management						
H		H	H	H	Management Science						
H	H	H	H	H	Marketing						
H	H		H	H	<i>Business Law Non-Business Subjects</i>						
H			H	H							
			H	H							
			H		Mathematics and Statistics						
			H		Psychology						

## **C**

### **First CurricCurriculum**

#### **First Year**

11.80.13 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
MG 112 Managing in a Global Context	1	20
MK 111 Introduction to Marketing	1	20
MS112 Business Analysis and Technology	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**

11.80.14 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**

11.80.15 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

11.80.16 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**

11.80.17 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**

11.80.18 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**

11.80.19 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.

11.80.20 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.

11.80.21 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.

11.80.22 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**

11.80.23 On successful completion of the fourth year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.

11.80.24 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**

11.80.25 **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.

11.80.26 **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.

11.80.27 **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.

11.80.28 **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.

11.80.29 **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*.

11.80.30 **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.

### 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 218	Intermediate Financial Reporting	2	20
AG 219	Cost and 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
AG 216	Taxation	2	10
AG 220	Accounting Information Systems	2	10

#### 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**

		Level	Credits
	Compulsory Classes		
Z1 151	Entrepreneurship Theory and Practice	1	20
Z1 218	New Venture Planning	2	20
Z1 217	Creativity and Innovation Management	2	20
Z1 310	Venture Management Strategy and Growth	3	20
Z1 311	Entrepreneurial Capital and Resources	3	20

**Single Honours Curriculum in Business Enterprise**

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

		Level	Credits
	Compulsory Classes		
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
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**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.

**Principal Subject Curriculum in Business Technology**

	Compulsory Classes	Level	Credits
MS151	Harnessing Technology for Business	1	20
MS 204	Technological and Organisational 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**

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

	Compulsory Classes	Level	Credits
MS 417	Electronic Commerce	4	20
MS 419	Dissertation in Business Technology	4	40

**Optional Classes**

60 credits chosen from:

MS 415	Business Process Integration with ERP	4	20
MS 416	Business Analytics using Data Mining	4	20
MS 418	Project Management	4	20
MS 422	Risk Analysis and Management	4	20

**Joint Honours Curriculum in Business Technology and Another Subject**

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
Or			
MS 4XX	Management Science 4	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
MS 421	Advanced Analytics for Business	4	20
MS 422	Risk Analysis and Management	4	20
MS 423	Modelling and Managing Service Operations Strategy	4	20

In addition, if the student elects to undertake the dissertation in Business Analysis and 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.

11.80.47  
to 11.80.60 (Numbers not used)

**Principal Subject Curriculum in Business Analysis and Technology**

11.80.61	Compulsory Classes	Level	Credits
MS 112	Business Analysis and Technology	1	20
MS 211	Managing Business Processes and Information Systems	2	20
MS210	Analysing and Improving Operations	2	20
MS 3XX	Innovation and Management Strategy	3	20
MS 3XX	Structuring and Solving Business Problems	3	20

**Single Honours Curriculum in Business Analysis and Technology**

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

Compulsory Classes	Level	Credits	
MS 4XX	Dissertation in Business Analysis and Technology	4	40
MS 417	Electronic Commerce	4	20
MS 4XX	Management Science 4	4	20

**Optional Classes**

40 credits chosen from:

MS 415	Business Process Integration with ERP	4	20
MS 416	Business Analytics using Data Mining	4	20
MS 418	Project Management	4	20
MS 422	Risk Analysis And Management	4	20
MS 421	Advanced Analytics for Business	4	20
MS 423	Modelling and Managing Service Operations Strategy	4	20

**Joint Honours Curriculum in Business Analysis and Technology**

11.80.63 All students shall undertake a curriculum in Business Analysis and Technology amounting to 40 credits as follows:

Compulsory Class	Level	Credits	
MS 417	Electronic Commerce	4	20
or			
MS 4XX	Management Science 4	4	20

**Optional Classes**

20 credits chosen from:

MS 415	Business Process Integration with ERP	4	20
MS 416	Business Analytics using Data Mining	4	20
MS 418	Project Management	4	20
MS 422	Risk Analysis And Management	4	20
MS 421	Advanced Analytics for Business	4	20
MS 423	Modelling and Managing Service		

Operations Strategy	4	20
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In addition, if the student elects to undertake the dissertation in Business Analysis and Technology:

<b>MS 4XX</b>	Dissertation in Business Analysis and Technology	4	20
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The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

### **Principal Subject Curriculum in Economics**

11.80.64	Compulsory Classes		Level	Credits
	EC 111	Introduction to Economics	1	20
	EC 212	Microeconomics 2	2	20
	EC 213	Macroeconomics 2	2	20
	EC 307	Microeconomics 3	3	20
	EC 308	Macroeconomics 3	3	20

### Optional Classes

EC 209	Economics of Firms and Industries	2	20
EC 311	Introduction to Econometrics	3	20

### **Single Honours Curriculum in Economics**

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

Compulsory Class		Level	Credits
EC 419	Dissertation in Economics	4	20
EC 403	Microeconomics	4	20
EC 404	Macroeconomics	4	20

### Optional Classes

60 credits chosen from

EC 412	Industrial Economics	4	20
EC 413	Applied Economics	4	20
EC 414	Financial Development and Economic Growth	4	20
EC 415	Behavioural Economics	4	20
EC 416	Natural Resource, Environmental and Energy Economics	4	20

### **Joint Honours Curriculum in Economics and Another Subject**

11.80.66 All students shall undertake a curriculum in Economics amounting to at least 40 credits

Compulsory Classes		Level	Credits
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 11.80.65

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.

11.80.67  
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 215	Business Finance	2	20
	AG 217	Portfolio Management and Security 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
MK 210	Destination Marketing Management	2	20
MK 211	Managing the Service Encounter	2	20
	Optional Classes		
	40 credits chosen from:		
MG 310	Developing Theory Into Practice	3	20
SH 325	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 Classes	Level	Credits
MG 412	Dissertation in Hospitality and Tourism Management	4	40
MG 417	Contemporary Issues in Management	4	20
	Optional Classes		
	60 credits chosen from:		
MG 423	Hospitality and Tourism Analysis: Case Studies and Case Histories	4	20
SH 424	Being and Ethical Manager	4	20
MG 402	Management, Enterprise and the Rise of the Global Economy	4	20
MG 418	Strategy and Leadership	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.

11.80.84

to 11.80.90 (Numbers not used)

**Principal Subject Curriculum in Human Resource Management**

11.80.91	Compulsory Classes	Level	Credits
HR 111	Managing People	1	20
HR 201	Managing Equality and Diversity	2	20
HR 207	Work Psychology	2	20

HR 208	Work Psychology for Human Resource Management	2	20
HR 300	Work, Employment and Society	3	20
HR 301	Employment Relations	3	20

**Single Honours Curriculum in Human Resource Management**

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

Compulsory Classes		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
41 402	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**

Compulsory Classes		Level	Credits
MG 112	Managing in a Global Context	1	20
MG 210	Understanding Change in Organisations	2	20
MG 209	Organisational Analysis and Strategy	2	20

**Optional Classes**

40 credits chosen from:

MG 310	Developing Theory into Practice	3	20
MG 313	Contemporary Trends in Management Practice	3	20
SH 325	Events Management	3	20

**Single Honours Curriculum in Management**

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

Compulsory Classes		Level	Credits
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	Level	Credits
MG 417 Contemporary Issues in Management	4	20

**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:

MG 405 Dissertation in Management	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**

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
MS 415	Business Process Integration using ERP	4	20
MS 416	Business Analytics Using Data Mining	4	20
MS 418	Project Management	4	20
MS 422	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 209	Understanding Consumers and Markets	2	20
MK 212	Services and Retail Marketing	2	20
MK 317	Marketing Communications	3	20
MK 318	Strategic Marketing	3	20

#### Optional Classes

MK 324	Retail Management	3	20
MK 320	Management of Sales Operations	3	20
MK 325	Essentials of International Marketing	3	20

#### **Single Honours Curriculum in Marketing**

11.80.122

	Compulsory Classes	Level	Credits
MK 412	Brand Management	4	20
MK 414	Dissertation in Marketing	4	40

#### 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
MK 421	Managing Integrated Marketing Communications: Theory and Practice	4	20
MK 415	International Business Management	4	20
MK 416	Managing Customer Relationships	4	20
MK 417	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**

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**

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 Inference	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		Level	Credits
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
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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 the first assessed attempt at Level 4 classes taken in the fourth year.

#### **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
AG 214 Business Accounting and Finance	2	20
EC 211 Business Economics	2	20
MG 208 Management in a Global Context	2	20

HR 206	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
Z1 211	New Venture Creation	3	20
MG 305	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 the first assessed attempt at Level 4 classes taken in the fourth year.

**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.

11.82.41 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 80 credits chosen from:

Optional Classes	Level	Credits
MS 209 Business Analysis & Supporting Technologies	2	20

EC 211	Business Economics	2	20
AG 214	Business Accounting & Finance	2	20
Z1 216	Entrepreneurship: Opportunities and Ventures	2	20
MK 208	Consumer Behaviour in a Global Context	2	20
MG 208	Management in a Global Context	2	20
HR 206	Organizational Behaviour	2	20

### PLUS

20 credits from the relevant subject specialism classes, listed below:

EC 213	Macroeconomics 2
HR 207	Work Psychology for HRM
MS 211	Managing Business Processes and Information Systems
MK 212	Services and Retail Marketing
MG 210	Understanding Change in Organisations
AG 217	Portfolio Management and Security Analysis
MK 210	Destination Positioning and Management

### Third Year

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

Compulsory Classes	Level	Credits
BF 302 Leadership Development Programme 2	3	20
Z1 218 New Venture Planning*	3	20
MG 313 Contemporary Trends in Management Practice	3	20

### Optional Classes

60 credits at Level 3 chosen from 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

together with a 40 credit Dissertation in the chosen Principal Business subject

OR for those without a specialism:

Class  
Code

BF 402	BBA Dissertation	4	40	Credits
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and 60 credits from Level 4 classes offered by the Strathclyde Business School listed in regulation 11.80 subject to the approval of the Course Director, including 40 credits for subject specialism.

### **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 the first assessed attempt at Level 4 classes taken in the fourth year.

### **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)

## **Faculty of Humanities 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**

Principal Subject and Non-Subject Specialisation Requirements	
11.120.9	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**

11.120.10 Permissible Combinations of Subjects for Pass and Honour Degree  
Principal Subjects are normally available in the following combinations:

## English

*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**

11.120.11 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**

11.120.12 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**

11.120.13 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**

11.120.14

*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**

11.120.15 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)**

11.120.16 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**

11.120.17 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.

11.120.18 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)**

11.120.19 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.

11.120.20 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.

11.120.21 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)**

11.120.22 In any year of study, students must normally pass all classes taken.

11.120.23 Progress regulations as defined for full-time study shall be applicable normally after periods of 120 credits.

#### **Final Honours Classification**

11.120.24 On successful completion of the fourth year, a candidate will be awarded the Level 4 credits corresponding to the classes taken.

11.120.25 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**

11.120.26 **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.

11.120.27 *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.

11.120.28 **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.

11.120.29 **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.

11.120.30 **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.

11.120.31  
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	Level	Credits
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

V1 326	Historiography and Research Methods	Level 3	Credits 20
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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
	Cold War Europe, 1945-1991	3	20
V1 389	V1 389		
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 and V1 436	The United States between the Wars 1: World War One and the Prosperity Decade	4	20
V1 438 and V1 439	The United States Between the Wars 2: The Great Depression and the New Deal	4	20
V1 438 and V1 439	Science, Medicine and European Imperialism 1	4	20
V1 438 and V1 439	Science, Medicine and European Imperialism 2	4	20
V1 442 and V1 443	Securing the Union 1: Scotland and Empire, 1707-53	4	20
V1 442 and V1 443	Securing the Union 2: Scotland and Empire, 1707-53	4	20
V1 444 and V1 445	The Price of Health Care: The UK, Canada and USA, since 1800: 1	4	20
V1 444 and V1 445	The Price of Health Care: The UK, Canada and USA, since 1800: 2	4	20
V1 446 and V1 447	Scotland and Britain 1: The Development of Scottish and British National Identities in Scotland from c1707 to c1850	4	20
V1 446 and V1 447	Scotland and Britain 2: The Development of Scottish and British National Identities in Scotland since c1850	4	20
V1 454 and V1 455	Britain's Home Front: Myths and Memories of the People's War 1	4	20
V1 454 and V1 455	Britain's Home Front: Myths and Memories of the People's War 2	4	20
V1 915 and V1 916	Twentieth Century Czechoslovakia 1: 1918-1948	4	20
V1 915 and V1 916	Twentieth Century Czechoslovakia 2: 1948-1993	4	20
V1 941 and V1 942	Imperialism, Politics and Society in Britain 1: 1870-1914	4	20
V1 941 and V1 942	Imperialism, Politics and Society in Britain 2: 1870-1914	4	20
V1 944 and	Social History of Work, 1880-1951 1: Perspectives	4	20

V1 945	Social History of Work, 1880–1951 2: Primary Sources	4	20
V1 951 and V1 952	Madness in the Modern World 1	4	20
	Madness in the Modern World 2	4	20
<b>List B: Honours Classes*</b>			
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	1	20
P3 101 Journalism and Creative Writing 2	1	20
P3 200 Creative Writing 2	2	20

P3 201	Journalism 2	2	20
P3 205	Journalism and Creative Writing 2	2	20
P3 301	Journalism 3	3	20
P3 302	Journalism and Creative Writing 3	3	20
P3 305	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 410	New Narratives	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 403 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. 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	French Culture and History 2	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	French Culture and History 2	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
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**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

**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
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*French*

R1 310	Freedom and Identity in France and the Francophone World	3	20
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*Italian*

R3 374	Italian Stage and Screen	3	20
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*Spanish*

R4 374	The Struggle for Modernity in Spain and Latin America	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.

**Admission to Joint Honours in a Modern Language and another subject**

11.120.93

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 School of Humanities.

**Admission to Minor Honours in a Modern Language**

11.120.94

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 the School of Humanities.

The credit requirements for the other Principal Subject are specified in that subject's specialisation regulations.

**Joint Honours Curriculum in a Modern Language and Another Subject**

11.120.95 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 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 Principal Subject are specified in that subject's specialisation regulations.

11.120.96 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		Level	Credits
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		Level	Credits
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**

11.120.97 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		Level	Credits
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.

11.120.98 - 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

#### *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
L2 202	Contemporary British Governance	2
L2 203	Modern Political Thought	2

### **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
<b>Optional Classes</b>			
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
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**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  
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
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#### 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

#### **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	4	20
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
L7 468	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:

		Level	Credits
	Compulsory Classes		
	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:

		Level	Credits
	Compulsory Classes		
	SH 215 Destination Positioning and Management	2	20

SH 221	Service Encounter Management	2	20
MG 212	Destination Marketing Management	2	20
MG 211	Managing the Service Encounter	2	20
SH 320	Destination Fieldwork: Regeneration and Sustainability	3	20
MG 310	Developing Theory into Practice	3	20
SH 322	Hospitality and Tourism Industry Placement	3	20
SH 325	Events Management	3	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 408 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

#### 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 11.121 (Numbers not used)

## **11.121      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**

11.121.1 Regulation 11.1.1 shall apply.

### **Mode of Study**

11.121.2 The courses are available by part-time study only.

### **Curriculum**

11.121.3 All students shall undertake classes, subject to the approval of the Course Director, within one of the following distinct pathways:  
Humanities  
Creative Arts

### ***Humanities***

11.121.4 All students shall undertake an approved curriculum as follows

### **11.121.5      Optional Classes**

90 credits chosen from the curriculum of the following Open Studies Certificate pathways listed in Regulation 11.145

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 11.145

**Creative Arts**

11.121.6 All students shall undertake an approved curriculum as follows

11.121.7 Optional Classes

90 credits chosen from the curriculum of the following Open Studies Certificate pathways listed in Regulation 11.145

Applied Arts

Theatre Arts

together with

30 credits chosen from the curriculum of the Open Studies Certificate and listed in Regulation 11.145

**Award**

11.121.8 **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.

11.121.9 to

11.122 (numbers 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.

11.122.20 number not used

**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

**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
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**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 the first assessed attempt at compulsory and specified optional classes which are taken in the fourth year.

**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
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### 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.

**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)

**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	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
X7 318	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
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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/Ourdoor 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 the first assessed attempt at compulsory and specified optional classes taken in the third year.

### 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 (Hons) in 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 a recognised HNC or equivalent.

Entry to Years 3 may be offered subject to a Recognition of Prior Learning Portfolio (RPL) evidencing academic achievements equivalent to 240 credits at SCQF Level 8 for entry to Year 3.

Direct entry to Level 10 Honours year is available for graduates who hold a BA in Education and Social Services (ESS) Pass Degree and who gained this award within the last 5 years.

In any admission through advanced standing no more than 50% of the total of 480 credits required for Honours may be applied to the final award

#### **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 either West College Scotland, New College Lanarkshire, or Glasgow Clyde College. 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 West College Scotland</i>			
X9 283	Academic Literacy	2	20
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 259	Being Professional: Working Collaboratively	2	20

*For students studying at Glasgow Clyde College*

X9 283	Academic Literacy	2	20
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

*For students studying at New College Lanarkshire*

X9 283	Academic Literacy	2	20
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 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
X7 319	Research Methods	3	20

Such other level 3 classes as may be approved by the Course Director.  
X7 319 is required for those students wishing to enter Honours.

### Fourth Year

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

Level Credits

X7438 Professional Enquiry and Evidence Informed Practice - Dissertation	4	40
X7436 Workplace Learning and Practice 3	4	40
X7439 Personal and Professional Development	4	20
X7437 Specialist Pathway	4	20

### **Progress**

11.122.109 In order to progress to the third year of the course, a student must have accumulated 240 credits from the course curriculum.

11.122.110 In order to progress to fourth year of the course, a student must normally have accumulated 360 credits from the course curriculum, and have achieved an average mark of 50 across all classes at Level 3.

### **Award**

11.122.111 **BA (Honours):** In order to qualify for the award of the BA (Honours) in Education and Social Services a student must have accumulated no fewer than 480 credits from the course curriculum.

11.122.112 **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.

11.122.113 **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.

11.122.114  
to 11.123 (numbers 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 up to 100 credits in one of their Level 2 Subjects and 20 credits in an interdisciplinary class chosen from a list of classes approved by the Faculty. Any remaining balance of credits will consist of classes taken from their other Level 2 Subject.

11.123.7 Specific criteria and prerequisites may apply to entry to Honours in certain subjects. 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 each class shall 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 another University may be taken in place of classes offered by the Faculty of Humanities and Social Sciences.

11.123.9 At Level 4, all full-time students shall undertake classes which amount to 120 credits which meet the specialisation requirements for their subject(s) and shall include a dissertation.

Students studying for Single Honours shall undertake 120 credits at Level 4 in one subject.

All other students shall undertake 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									English
J	J								French
J	J	J							History
J	J	J	J						Italian
J	J	J	J	J					Journalism & Creative Writing
J	J	J	J	J	J				Law
J	J	J	J	J	J	J			Politics
J	J	J	J	J	J	J	J		Psychology
J	J	J	J	J	J	J	J		Spanish
									<i>Non-HaSS subjects</i>
J	P	J	J	J	J	J	J	J	Economics
J	J	J	J	J	J	J	J	J	Human Resource Management
		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 120 credits, normally consisting of three pairs (ie, 1A+1B) of classes taken from List A. Up to 40 credits of classes within a single subject 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
X9173	Education 1A : Year 1 Placement and Curriculum	1	20
X9172	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 shall undertake the following 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 (including Major-Minor) 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

#### *Subjects offered by 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 to be studied 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 the achievement of 120 credits at each level.

**Honours**

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;
- (iii) the current conventions governing the award of BA Honours degrees.

#### **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 *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, met published criteria 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		Level	Credits
X9 173	Education 1A: Year 1 Placement and Curriculum	1	20
X9 172	Education 1B: Understanding Education in the 21 <sup>st</sup> Century	1	20
X9 280	Learners and Learning	2	20
X9 279	Informal Education	2	20
X9 308	History and Philosophy of Education	3	20
X9 310	Children and Childhood	3	20

**Optional Classes**

X7 309	Social Pedagogy with Adults	3	20
X7 311	Philosophy with Children and Communities	3	10
X7 312	Living in a Digital Age	3	10
X7 313	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		Level	Credits
60 credits chosen from			
X7 431	Policy and Politics in Education	4	20
X7 433	Social Issues in Education	4	20
X7 435	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

Optional Classes		Level	Credits
X7 432	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
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		

V1 320	Relations in the Sixteenth Century 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	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 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 and V1 410	The Scramble for the Middle East, Arab Nationalism, Zionism and European Colonial Powers, 1914-1939 1 The Scramble for the Middle East, Arab Nationalism, Zionism and European Colonial Powers, 1914-1939 2	4	20
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V1 412 and V1 413	Becoming British? Scotland, England and Ireland, in the Sixteenth Century 1 Becoming British? Scotland, England and Ireland, In the Sixteenth Century 2	4 4	20 20
V1 425 and V1 426	Scandals and Ethics 1: The History of Pharmacy Scandals and Ethics 2: The History of Pharmaceuticals	4 4	20 20
V1 427 and V1 428	Britain, France and European Unity 1, 1945-1956 Britain, France and European Unity 2, 1957-1973	4 4	20 20
V1 429 and V1 430	The 1707 Act of Union in a British and European Context 1 The 1707 Act of Union in a British and European Context 2	4 4	20 20
V1 435 and V1 436	The United States between the Wars: 1 World War One and the Prosperity Decade The United States Between the Wars: 2 The Great Depression and the New Deal	4 4	20 20
V1 438 and V1 439	Science, Medicine and European Imperialism 1 Science, Medicine and European Imperialism 2	4 4	20 20
V1 442 and V1 443	Securing the Union: Scotland and Empire, 1707-53 1 Securing the Union: Scotland and Empire 1707-53 2	4 4	20 20
V1 444 and V1 445	The Price of Health Care: The UK, Canada and USA, since 1800: 1 The Price of Health Care: The UK, Canada and USA, since 1800: 2	4 4	20 20
V1 446 and V1 447	Scotland and Britain 1: The Development of Scottish and British National Identities in Scotland from c1707 to c1850 Scotland and Britain 2: The Development of Scottish and British National Identities in Scotland since c1850	4 4	20 20

V1 915 and V1 916	Twentieth Century Czechoslovakia, 1918-1948 1	4	20
V1 941 and V1 942	Imperialism, Politics and Society in Britain, 1870–1914 1	4	20
V1 944 and V1 945	Imperialism, Politics and Society in Britain, 1870–1914 2	4	20
V1 944 and V1 945	Social History of Work, 1880–1951: 1 Perspectives	4	20
V1 951 and V1 952	Social History of Work, 1880–1951: 2 Primary Sources	4	20
V1 951 and V1 952	Madness in the Modern World 1	4	20
V1 951 and V1 952	Madness in the Modern World 2	4	20
<b>List B: Honours Classes*</b>			
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	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		Level	Credits
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
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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 403	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	French Culture and History 2	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
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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 2<sup>nd</sup> 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 3<sup>rd</sup> 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
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MG 423	Hospitality and Tourism Analysis: Case Studies and Case Histories	4	20
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**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 408	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
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**

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
406	Finite Element Methods for Boundary Value Problems and Approximation	4	20
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
X9 173	Education 1A: Year 1 Placement and Curriculum	1	20
X9 172	Education 1B: Understanding Education in the 21 <sup>st</sup> 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

X9 281	Year 2 Pedagogy and Placement	2	20
X9278	Curriculum: Children's Language, Literature and Literacy in the Early Years of School	2	20
X9282	Curriculum: Mathematics in the Primary School	2	20
X9 280	Learners and Learning	2	20

**Third Year**

11.124.6 Students will take:

Compulsory Classes:

X7 315	Year 3 Pedagogy and Placement 1	3	20
X7 316	Year 3 Pedagogy and Placement 2	3	20
X7308	History and Philosophy of Education	3	20
X7314	Curriculum: Science, Technology and Information Communication Technologies	3	20
X7 307	Curriculum: The Arts (Music, Art & Design and Drama)	3	20
X7 317	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		Level	Credits
X7434	Year 4 Pedagogy and Placement	4	20
X7431	Policy and Politics in Education	4	20
X7433	Social Issues in Education	4	20
X7 405	Inclusive Practice in Literacy and Numeracy	4	20
X7435	Social Research Methods	4	10
X7 432	Dissertation	4	20

**Optional Classes:**

X7405 Inclusive Practice in Literacy and Numeracy 4 20

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 X9 173 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 X9 281 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 X7 315 Pedagogy and Placement 1 and X7 316 Pedagogy and Placement 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, Trusts and Succession	2	20
M9 212	European Union 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
<b>Optional Classes</b>			
80 credits chosen from:			
80 credits chosen from:			
GU 306	Roman Law of Property and Obligations	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
<b>Optional Classes</b>			
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 414	Mediation	4	20
M9 416	issues in healthcare Law and Ethics	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 421	Governance of Human Enhancement Tech	4	20
M9 424	Human Rights Law in Theory and Practice	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
M9 499	Ethics and Justice	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 the first assessed attempt at compulsory and specified optional classes taken in the fourth year.

**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	4	10
M9 498 Dissertation	4	10

together with 40 credits in the chosen Modern Language from

French

R1 502	French Language A	4	10
R1 503	French Language B	4	10
R1 505	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

\*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:

- the first assessed attempt at compulsory and specified optional classes taken in the fifth year;
- 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 540 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 Laws 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.

**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
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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 422	Mediation (Clinical)	4	20
M9 423	Social and Welfare Law	4	20
M9 425	Labour Law (Clinical)	4	20
M9 426	Computer Law	4	20
M9 428	Legislation Law	4	20
M9 430	Law, Justice and Discretion (Clinical)	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.

### Award

- 11.128.101 **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).
- 11.128.102 **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.

11.128.103 **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.

11.128.104 **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**

11.128.105 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**

11.128.106 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**

11.128.107 The first year curriculum is not taught as part of this degree course.

#### **Second Year**

11.128.108 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
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**

11.128.109 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 212	European Union Law	2	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**

11.128.110 See Regulation 11.128.97.

### **Progress**

11.128.111 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.

11.128.112 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**

11.128.113 **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 500 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).

11.128.114 **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**

11.128.115 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.

11.128.116 to

11.128.130 (not used)

## **Law**

**Bachelor of Laws (LLB) in Scots and English Law with Honours**

**Bachelor of Laws LLB in Scots and English Law**

**Diploma of Higher Education in Scots and English Law**

**Certificate of Higher Education in Scots and English Law**

**Course Regulations**

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

**Status of the Courses**

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

**Mode of Study**

11.128.132 These programmes are available on the basis of full-time study only.

**Credit Transfer**

11.128.133 Students with appropriate qualifications may be admitted with advanced standing in which case their curriculum shall be modified (see Regulations 11.128.132-11.128.140).

**Curriculum**

**First Year**

11.128.134 All students shall normally 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**

11.128.135 All students shall normally 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 Unjust Enrichment	2	20
M9 211	Property, Trusts and Succession	2	20
M9 212	European Union Law	2	20

### **Third Year**

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

Compulsory	Classes	Level	Credits
M9 306	Evidence	3	20
M9 357	English Property and Land Law	3	20
M9 356	English Criminal Law and Evidence	3	20
M9 354	English Law of Tort	3	20
M9 355	English Law of Contract and Restitution	3	20
M9 353	English Law of Equity and Trusts	3	20

### **Fourth Year**

11.128.137 All students shall normally 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
M9 499	Ethics and Justice*	4	20

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

\*This class is available only to students undertaking Law Clinic or equivalent work.

### **Progress**

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

11.128.139 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 of the first year compulsory classes.

11.128.140 In order to progress to the Fourth (Honours) year of the course, a student must normally have accumulated at least 360 credits from the course curriculum including the credits for all of the compulsory classes.

### **Award**

11.128.141 **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.

11.128.142 **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 of the compulsory classes.

11.128.143 **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.

11.128.144 **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.

### **Students Admitted to the Course with Advanced Standing Credit Transfer and RPL**

11.128.145 Students holding appropriate qualifications are admitted with advanced standing to the course to reflect their previous degree or degree equivalent

amounted to a maximum of 80 credits and shall undertake the special curriculum set out in Regulations 11.128.146-147.

### **Curriculum (Graduate Entry)**

#### **Second Year**

11.128.145 Students are admitted with advanced standing and are admitted direct to second year.

All students shall normally undertake classes amounting to 200 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

Compulsory classes taught during a summer school on Campus between the Second and Third Years

M9 355 English Law of Contract and Restitution	3	20
M9 357 English Property and Land Law	3	20
M9 353 English Law of Equity and Trusts	3	20

#### **Third Year**

11.128.146 All students shall normally undertake classes amounting to 160 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 Unjust Enrichment	2	20
M9 211 Property, Trusts and Succession	2	20
M9 212 European Union Law	2	20
M9 306 Evidence	3	20
M9 356 English Criminal Law and Evidence	3	20
M9 35 English Law of Tort	3	20

#### **Fourth/Honours Year**

11.128.147 See Regulation 11.128.123

### **Progress (Graduate Entry)**

11.128.148 In order to progress to the third year of the course, a student must normally have accumulated no fewer than 180 credits from the course curriculum.

**Transfer**

11.128.149 A student who has qualified for the award of the LLB degree and who meets the requirements of Regulation 11.128.126 may transfer to the Fourth Year of the full-time LLB with Honours.

**Award**

11.128.150 Regulations 11.128.129 - 11.128.131 shall apply.

11.128.151 to

11.128.200 (not used)

**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 the first assessed attempt at compulsory and specified optional classes which are taken in the fourth year.

#### **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

**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 the first assessed attempt at compulsory and specified optional classes taken in the third and fourth years.

### 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)

## **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 the first assessed attempt at compulsory and specified optional classes taken in the fourth year and, as appropriate, in the third year.

**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 in Applied Social Studies**

**Diploma of Higher Education in Applied Social Studies**

**Certificate of Higher Education in Applied Social Studies**

#### **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 109 Psychology for Social Work	1	20
L5 110 Values Ethics and Justice	1	20
L5 115 Understanding Social Science and Social Research	1	20
L5 116 Poverty, Disadvantage and Discrimination	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 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
L5 207	Social Work in Diverse Contexts	2	20
L5 215	People, Communities and Society	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
L5 309 Assessed Practice 1	3	60

### *BA in Applied Social Studies*

Elective Classes 60

### 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
L5 407 Assessed Practice 2	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 206 Social Work Processes and Practice.

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.

11.133.11 Progression at all stages on the Honours course for Social Work 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 the first assessed attempt at compulsory classes in the third and fourth years.

### 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 **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.

11.133.15 **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.

11.133.16 **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.

**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 Care	1	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:

- the first assessed attempt at compulsory classes taken in the fourth year or a capped grade of 40% for 2<sup>nd</sup> attempts
- 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
CC 128	History 1A	1	20
CC 129	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

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, CC 128 History 1A and CC 129 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.

11.140.11 to

11.145 (numbers not used)

## 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.

12.1.17 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.

12.1.18 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.

12.1.19 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 the award of a degree, this shall be clearly stated in the relevant course regulations.

12.1.20 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. 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:

- (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.
- (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:

<b>Progression</b>	<b>Minimum Number of Credits Required</b>
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 and either	4	40
CH 451 Industrial Placement or	4	80
CH 452 Research Placement or	4	80
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
<i>Forensic and Analytical Chemistry</i>				
CH 567	MChem in Forensic and Analytical Chemistry		5	120
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 450* 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 the first assessed attempt at compulsory and specified optional classes taken in the third, fourth and fifth years.

#### **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.

12.12.18 **BSc Honours:** In order to qualify for the award of the degree of BSc Honours in Chemistry (Professional Experience), a candidate must have accumulated no fewer than 480 credits from the course curriculum.

**Transfer**

12.12.19 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.

12.12.20 A student who at the end of fourth year fails to satisfy the progress requirements for or who does not wish to progress to fifth year may be transferred to the BSc with Honours in Chemistry (Professional Experience).

12.12.21

to 12.12.50 (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**

12.12.51 The course is at Integrated Masters level. Transfer to the BSc in Chemistry with Drug Discovery is possible at any time up to and including the end of the third year, subject to satisfying the appropriate progress requirements.

#### **Mode of Study**

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

#### **Place of Study**

12.12.53 The course includes an Industrial Placement normally outwith the campus.

#### **Curriculum**

##### **First Year**

12.12.54 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 108	Practical and Transferable		
MM 116	Mathematics 1C	1	20
Elective Class(es)			20

##### **Second Year**

12.12.55 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 214	Practical Organic and Inorganic Chemistry	2	20
MP 217	Pharmaceutics	2	20

### Third Year

12.12.56 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

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

Compulsory Classes		Level	Credits
CH 450 and either	Distance Learning Assignment	4	40
CH 451 or	Industrial Placement	4	80
CH 452 or	Research Placement	4	80
CH 462	Knowledge Exchange Placement	4	80

### Fifth Year

12.12.58 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)

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

### **Progress**

12.12.60 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 108 Practical and Transferable Skills* and *MM 116 Mathematics 1C*.

12.12.61 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.

12.12.62 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.

12.12.63 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**

12.12.64 On successful completion of the fifth year, a candidate will be awarded 120 Level 5 credits under the class code *CH 568*.

12.12.65 The final classification for the degree of MChem will be based on the first assessed attempt at compulsory and specified optional classes taken in the third, fourth and fifth years.

### **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.

12.12.38 **BSc Honours:** In order to qualify for the award of the degree of BSc Honours in Chemistry (Professional Experience), a candidate must have accumulated no fewer than 480 credits from the course curriculum.

### **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.

12.12.39 A student who at the end of fourth year fails to satisfy the progress requirements for or who does not wish to progress to fifth year may be transferred to the BSc with Honours in Chemistry (Professional Experience).

## **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**

###### **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 109	Topics in Computing 1	1	10
CS 110	Combinatorics for Computer Science 1	1	10
MS 112	Business Analysis and Technology	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 211	Managing Business Processes and Information Systems	2	20
Either			
CS 212	Topics in Computing 2	2	10
Or			

CS 215	Combinatorics for Computer Science 2	2	10
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### 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
Elective Class(es)			20
Optional Classes			
60 credits chosen from:			
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
CS 317	Mobile App Development	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 408	Individual Project	4	40

\*CS 418 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
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
CS 546	Group Project	5	40

CS 555 Computer Science comprises:

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 80 Level 4 credits under the class code *CS 418 Computer Science*.

12.13.16 On successful completion of the fifth year, a candidate will be awarded 80 Level 5 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 the first assessed attempt at all classes taken at Levels 4 and 5.

### **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 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

#### Fourth Year

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

Compulsory Class	Level	Credits
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#### *Mathematics*

MM 400	Mathematics*	4	120
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\* *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 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
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#### *Mathematics*

MM 500	Mathematics*	5	120
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\* MM 500 Mathematics comprises a Project and Level 5 classes chosen from the lists below:

Compulsory Class

MM 501	Project	5	40
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in Mathematics and classes amounting to 80 credits chosen from the list below:

#### *Mathematics and Statistics*

MM 510	Mathematics and Statistics**	5	120
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\*\* 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 the first assessed attempt at compulsory and specified optional classes at Levels 4 and 5 taken in the fourth and fifth years.

### **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

**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 Electromagnetism and Plasma Physics	5	20

or such other Level 5 classes as may be approved by the Adviser of Study

**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 (Original course pre 2014/2015)**

##### **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 520	Being a Pharmacist 4	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:

- the first assessed attempt at classes at levels four and five;
- 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 to

12.22.24 (Number not used)

## **MPharm in Pharmacy (Course with effect from 2014/15)**

### **Course Regulations**

[These regulations are to be read in conjunction with Regulation 12.1]

#### **12.22.25 Admission**

Admission to the course shall normally be into Second Year. Students will be awarded RPL equivalent to 120 credits at Level 1.

#### **Status of Degree**

#### **12.22.26**

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 (years 2 – 4). 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**

#### **12.22.27**

The course includes time undertaken in experiential learning sites including NHS hospitals and community pharmacies for which students shall require a valid Protecting Vulnerable Groups Certificate from Disclosure Scotland.

#### **Mode of Study**

#### **12.22.28**

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

### **Curriculum**

#### **12.22.29 First Year**

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**

#### **12.22.30**

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

Compulsory Classes		Level	Credits
MP 2xx	Normal function of the gastrointestinal tract	2	20
MP 2xx	Normal function of the cardiovascular and respiratory systems	2	20
MP 2xx	Normal function of the central nervous and endocrine systems	2	20

MP 2xx	Normal function of the renal and hepatic systems	2	20
MP 2xx	Being a pharmacist 1	2	40

### Third Year

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

Compulsory Classes		Level	Credits
MP 3xx	Management of gastrointestinal and endocrine conditions	3	20
MP 3xx	Management of cardiovascular conditions	3	20
MP 3xx	Management of respiratory and inflammatory conditions	3	20
MP 3xx	Management of infection and infectious diseases	3	20
MP 3xx	Being a pharmacist 2	3	40

### Fourth Year

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

Compulsory Classes		Level	Credits
MP 4xx	Management of malignancy and inflammatory conditions	4	20
MP 4xx	Management of central nervous system conditions	4	20
MP 4xx	Management of patients with co-morbidities	4	40
MP 4xx	Being a pharmacist 3	4	40

### Fifth Year

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

Compulsory Classes		Level	Credits
MP 507	Research Project	5	40
MP 5xx	Evidence based medicine	5	40
MP 5xx	Being a pharmacist 4	5	40

### Progress

12.22.34 In order to progress to the second year of the course, a student must normally have accumulated 120 credits.

12.22.34 In order to progress to the third year of the course, a student must normally have accumulated 240 credits including those for all the compulsory classes.

12.22.36 In order to progress to the fourth year of the course, a student must normally have accumulated 360 credits including those for all the compulsory classes.

12.22.37 In order to progress to the fifth year of the course, a student must normally have accumulated at least 480 credits including those for all the compulsory classes

**Final Classification**

12.22.38 The final classification for the degree of MPharm will normally be based on the first assessed attempt at classes at levels four and five.

**Award**

12.22.39 **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 including 480 from the course curriculum.

**Transfer**

12.22.40 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.

12.22.41 to  
12.22.61 (Number not used.)

**Regulations applicable for students entering the Collaborative Programme from December 2007 onwards.**

**Collaborative Programme**

12.22.62 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**

12.22.63 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**

12.22.64 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 60 credits as follows:

Compulsory Classes		Level	Credits
MC 115	Foundation Pharmacy (MP 100)	1	20
MC 117	Molecular Properties (MP 103)	1	20
MP 210	Physiology 3	2	20

### **Collaborative Programme - Semester Three**

12.22.65 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**

12.22.66 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 90 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 318	Drugs and Disease 2 (MP) 304)	3	10
MC 118	MPU Malaysian	1	20

### **Standard Collaborative Programme - Semester Five**

12.22.67 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 90 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 319	Absorption and Fate (MP319)	3	20
MC 411	Drugs and Disease 3 (MP 411)	4	20

**Standard Collaborative Programme – Semester Six**

12.22.68 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 416	Pharmacy Practice 3	4	20

**2+2 Collaborative Programme – Third Year**

12.22.69 All students shall undertake classes amounting to no fewer than 120 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 - Final Year**

12.22.70 All students shall undertake classes amounting to no fewer than 120 credits as detailed in Regulation 12.22.8.  
All classes are given and examined at the University of Strathclyde, in the period September to June.

**Collaborative Programme - Progress**

12.22.71 In order to progress to semester two, a student must have accumulated at least 70 credits from the course curriculum.

12.22.72 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.

12.22.73 In order to progress to semester four, a student must have accumulated at least 210 credits from the course curriculum including those for all classes from semester two.

12.22.74 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.

12.22.75 In order to progress to semester six, a student following the Standard Collaborative Option must have obtained 390 credits from the course curriculum.

12.22.76 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

12.22.77 In order to progress to the final year of the course a student must normally have accumulated 360 credits from the course curriculum and achieved an approved standard of performance.

**Collaborative Programme - Award**

12.22.78 See Regulation 12.22.12.

12.22.79  
to 12.22.99 Numbers not used

### **MSci in Pharmacy**

#### **Course Regulations**

[These regulations are to be read in conjunction with Regulation 12.1]

#### **Status of Degree**

12.22.100 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**

12.22.101 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**

12.22.102 The course is normally available by full-time study only.

#### **Curriculum**

##### **First Year**

12.22.103 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**

12.22.104 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**

12.22.105 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**

12.22.106 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

**Summer Semester**

12.22.107 All students shall undertake classes amounting to 40 credits as follows:

Compulsory Class	Level	Credits
MP 507 Research Project	5	40

**Final Semester**

12.22.108 All students shall undertake classes amounting to 40 credits as follows:

MP 511 Bench to Bedside	5	40
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**Progress**

12.22.109 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.

12.22.110 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.

12.22.111 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

12.22.112 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.

12.22.113 In order to progress to the final semester of the course, a student must have passed the Strathclyde Summer Semester project class

**Final Classification**

12.22.114 The final classification for the degree of MSci in Pharmacy will normally be based on the first assessed attempt at classes at levels four and five.

**Award**

12.22.115 **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**

12.22.116 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.

12.22.117 to

12.22.137 (number 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**

12.22.138 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**

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

### **Curriculum (Full-time study)**

#### **First Year**

12.22.140 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**

12.22.141 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**

12.22.142 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**

12.22.143 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
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BM 403	Honours Immunology 2	4	20
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*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**

12.22.144 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

<i>Pharmacology</i>				
BM 508	MSci Pharmacology Project and Thesis	5	80	
BM 512	Research Topics in Pharmacology	5	20	

**Curriculum (Part-time study)**

12.22.145 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)**

12.22.146 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.

12.22.147 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.

12.22.148 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.

12.22.149 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)**

12.22.150 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.

12.22.151 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**

12.22.152 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.

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

**Award**

12.22.154 **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**

12.22.155 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 3<sup>rd</sup> and 4<sup>th</sup> Year options.

12.23 to  
12.28 (number 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 with Honours in Chemistry with Teaching, 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	20
CH 214	Practical Organic and Inorganic Chemistry	2	20

### **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

20 credits including chosen from:

CH 316	Analytical Chemistry and Drugs of Abuse	3	20
or			
CH 323	Chemical Biology	3	20

Students can only choose CH 323 if they already have BM 102 Molecular Bioscience.

### **Fourth Year**

12.29.7 All students shall normally undertake classes amounting to 140 credits as follows:

Compulsory Classes		Level	Credits
CH 458	Distance Learning Assignment	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 the first assessed attempt at compulsory and specified optional classes taken in the third, fourth and fifth years.

### **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 with Honours in Chemistry with Teaching, 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.

#### 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
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#### 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 580	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 <i>EE 475 CES Individual Project</i> .

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 the first assessed attempt at compulsory and optional classes taken in the fourth and fifth years.

#### **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
CH 106	Chemistry: Principles and Practice 1	1	20
CH 107	Chemistry: Principles and Practice 2	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 316	Reactors	3	10
CP 317	Chemical Engineering Practice	3	10

### **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
CH 545 MSci in Applied Chemistry and Chemical Engineering	5	120

*CH 545* comprises:

CH 557 Applied Chemistry Project	5	40
CH 565 Topics in Chemistry	5	40

and 40 credits of classes chosen from\*:

CP 517 Fuel Cells	5	10
CP 520 Membrane Technology	5	10
CP 521 Model Based Process Control	5	10
CP 525 Nanotechnology	5	10
CP 526 Nuclear Engineering	5	10
CP 528 Modern Methods of Process Measurement	5	10
CP 530 Safety Management Practices	5	10

\*such other classes as may be approved by the Course Director

**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 the first assessed attempt at compulsory and specified optional classes which are taken in the third, fourth and fifth years.

**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
56208	Design and Engineering Applications 2	2	10
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 212	Materials Engineering and Design	2	10

###### 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
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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 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 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

Optional Class		20
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##### **Optional Classes**

20 credits chosen from:

BE xxx	Wheelchairs and Seating	4	20
BE 411	Upper Limb Prosthetics	4	20
BE 408	Hip, Knee & Ankle Disarticulation Prosthetics	4	20
BE 410	Lower Limb Prosthetic Design	4	20
BE 413	Orthotic Management of Spinal Deformity	4	20
BE 407	Orthotic Management of Neurological Conditions	4	20
BE 412	Clinical Governance	4	20
BE 415	Clinical Gait Analysis	4	20
BE xxx	Orthotic Management of the Diabetic Foot	4	20
BE 414	Paediatric Lower Limb Prosthetics	4	20

\*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**

94 509	Orthotic Management of Neurological Condition B	5	20
94 510	Orthotic Management of Diabetes Mellitus B	5	20
BE504	Hip, Knee and Ankle Disarticulation B	5	20
BE505	Clinical Governance B	5	20
BE506	Wheelchairs and Seating B	5	20

BE507	Orthotic Management of Spinal Deformity B	5	20
BE508	Clinical Gait Analysis	5	20
BE509	Upper Limb Prosthetics B	5	20
BE510	Lower Limb Prosthetic Design B	5	20
BE511	Paediatric Lower Limb Prosthetics B	5	20
BExxx	Orthotic Management of the Diabetic Foot	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.

### **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.

## Faculty of Engineering

### 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 212	Process Safety Fundamentals	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 316	Reactors	3	10

CP 315	Biochemical Engineering	3	10
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	Colloid Engineering	5	10
CP525	Nanotechnology	5	10
CP528	Modern Methods of Process Measurement	5	10
CP524	Multi-Phase Processing	5	10
CP520	Membrane Technologies	5	10
CP521	Model-based Process Control	5	10

##### **List B**

CP529	Programming and Optimisation	5	10
CP518	Communicating Science and Technology	5	10
CP516	Emerging Technologies	5	10
CP522	Modelling & Simulation	5	10
CP523	Molecular Simulation in Chemical Engineering	5	10

##### **List C**

CP526	Nuclear Engineering	5	10
CP517	Fuel Cells	5	10
CP527	Petrochemical Engineering	5	10
CP519	Environmental Engineering & Management	5	10

Exceptionally, such other classes totalling no more than 10 credits as approved by the Academic Year Co-ordinator

**Progress**

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

12.43.10 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 at least 120 credits from Level 1 and 100 from Level 2.

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

12.43.12 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.

**Final Assessment and Classification**

12.43.13 The final classification for the degree of MEng in Chemical Engineering will normally be based on the first assessed attempt at compulsory classes taken in the second, third, fourth and fifth years.

**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 329	Engineering Mathematics	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 434	Individual Project	4	40
CL 418	Structural Engineering 2	4	20
CL 419	Geotechnical Engineering 2	4	20
CL 435	Prestressed Concrete, Composite Materials and Structural Stability	4	10
CL 438	Project Planning	4	10

#### **Optional Classes**

No Fewer than 20 credits chosen from:

CL 436	Transport Planning	4	10
CL 437	Project Analysis	4	10
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.

#### **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 329 Engineering Mathematics	3	20
CL 328 Environmental Engineering	3	10
CL 330 Transport Engineering	3	10
CL 305 Construction Project Management	3	10

### Optional Class List

No fewer than 10 credits chosen from:

CL 327 Engineering for International Development	3	10
VP 301 Vertically Integrated Project 301	3	10
VP 302 Vertically Integrated Project 302	3	10

### Fourth Year

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

Compulsory Classes	Level	Credits
CL 434 Individual Project	4	40
CL 419 Geotechnical Engineering 2	4	20
CL 420 Water Engineering 2	4	20
CL438 Project Planning	4	10

### *Civil Engineering*

CL 418 Structural Engineering 2	4	20
CL 435 Prestressed Concrete, Composite Materials and Structural Stability	4	10

Optional Classes	4	20
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### *Civil and Environmental Engineering*

CL 423 Solid Waste Management and Contaminated Land	4	20
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### Optional Classes

No fewer than 20 credits chosen from:

CL 436 Transport Planning	4	10
CL 437 Project Analysis	4	10
CL 418 Structural Engineering 2	4	20
CL 435 Prestressed Concrete, Composite Materials and Structural Stability	4	10

CL 423	Solid Waste Management and Contaminated Land	4	20
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
<b>CL 5xx</b>	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
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		

EV 908	Environmental Assessment 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

#### 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

12.45.8

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
DM 506	Industrial Placement 4	5	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 all 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	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 at Level 5 to no fewer than 120 credits) chosen from the list of optional classes in Regulation 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
DM 506	Industrial Placement 4	5	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**

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 all 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 100	Anatomy and Physiology for Biomedical Engineers	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 201	Biomechanics of Human Movement – Theory	2	20
BE202	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
65303	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
BE405	Sports Injury and Rehabilitation	4	20
BE 400	Advanced Topics in Human Movement	4	20

#### **Optional Classes**

20 credits at Level 3, 4 or 5 chosen from the list of optional classes in Regulation 12.45.48

#### **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
DM 506	Industrial Placement 4	5	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
BE 902	Prosthetics and Orthotics	5	10
BE903	Cardiovascular Devices	5	10
BE904	Clinical and Sports Biomechanics	5	10
BE908	Biomedical Instrumentation	5	10
BE909	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 Electronics	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 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

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

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
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
<b>List B: Electronic and Digital Systems</b>			
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
<b>List C: General</b>			
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.

12.46.33 **Place of Study**

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
EM 271	Electronic and Mechanical 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
EM 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
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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.

## 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 212	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
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*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
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Elective Class			10
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*Mechanical Engineering with Financial Management*

AG 151	Introduction to Finance and Accounting	1	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 201	Vertically Integrated Project 201	2	10
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Or

VP 202	Vertically Integrated Project 202	2	10
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### 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 415	Strategic Analysis of Engineering Business Case Studies	4	10

ME 416	Engineering Ethics	4	10
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together with classes appropriate to the chosen course:

*Aero-Mechanical Engineering*

*Mechanical Engineering with Aeronautics*

16 351	Flight and Spaceflight 2	3	10
16 309	Aero-Design 2	3	20

*Mechanical Engineering*

*Mechanical Engineering with Automotive Engineering*

*Mechanical Engineering with Financial Management*

*Mechanical Engineering with Materials 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***

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 415 Strategic Analysis of Business Case Studies with

VP 301	Vertically Integrated Project 3	3	10
Or			
VP 302	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:

*Aero-Mechanical Engineering*

*Mechanical Engineering with Aeronautics*

ME 410 Aerodynamic Performance	4	10
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*Mechanical Engineering*

*Mechanical Engineering with Automotive Engineering*

*Mechanical Engineering with Financial Management*

*Mechanical Engineering with Material Engineering*

*Mechanical Engineering with International Study*

ME 404      Energy Systems Modelling

4      10

\*For students registered for Aero-Mechanical Engineering class ME409 Individual Project shall normally 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

\*For students registered for Aero-Mechanical Engineering class ME519 Group Project shall normally be on an Aero-related topic.

ME519 Group Project can be used to contribute towards a Vertically Integrated Project.

together with classes appropriate to the chosen course:

*Aero-Mechanical Engineering*

Compulsory Classes

ME 501      Systems Engineering 1

5      10

16 599      Aerodynamic Propulsion Systems

5      10

together with 60 credits of 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

together with 70 credits of optional classes chosen from Regulation 12.47.9

*Mechanical Engineering with Automotive Engineering*

<b>Compulsory Classes</b>			
ME 505	Machine Dynamics	5	10
ME 518	Topics in Automotive Engineering	5	10

together with 60 credits of optional classes chosen from Regulation 12.47.9

*Mechanical Engineering with Financial Management*

<b>Compulsory Class</b>			
ME 515	Finance for Mechanical Engineers	5	60

together with 20 credits of optional classes chosen from Regulation 12.47.9

*Mechanical Engineering with Materials Engineering*

<b>Compulsory Classes</b>			
16 565	Engineering Composites	5	10
ME 523	Polymer and Polymer Composites	5	10

together with 60 credits of optional classes chosen from Regulation 12.47.9

**Optional Classes**

12.47.9

16 565	Engineering Composites	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 516	Lightweight Structure	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
ME 523	Polymer and Polymer Composites	5	10
ME 524	MEng Group Project Abroad	5	60

Exceptionally, such other level 5 classes totalling no more than 20 credits as approved by the Course Director.

**Progress**

12.47.10

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.

- 12.47.11 In order to progress to the second year of the course, a student must have accumulated at least 100 credits from the course curriculum
- 12.47.12 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.
- 12.47.13 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.
- 12.47.14 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**

- 12.47.15 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**

- 12.47.16 **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 Study must satisfy the requirements of 12.47.18 or 12.47.19 respectively.
- 12.47.17 In the case of candidates for the MEng in Aero-Mechanical Engineering, both ME409 Individual Project and ME519 Group Project must be on aero-related topics.
- 12.47.18 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**

- 12.47.19 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.

- 12.47.20 to
- 12.47.100 (numbers not used)

## **Prosthetics and Orthotics**

### **MSci in Prosthetics and Orthotics**

#### **Course Regulations**

[These regulations are to be read in conjunction with Regulation 12.1]

#### **Status of the Course**

12.48.1 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**

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

#### **Place of Study**

12.48.3 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**

12.48.4 The first, second and third year curricula are taught as part of the BSc with Honours in Prosthetics and Orthotics. See Regulations 11.48.4 -11.48.6.

##### **Fourth Year**

12.48.5 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

Optional Class	20
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###### **Optional Classes**

20 credits chosen from:

BE xxx	Wheelchairs and Seating	4	20
BE 411	Upper Limb Prosthetics	4	20
BE 408	Hip, Knee & Ankle Disarticulation Prosthetics	4	20
BE 410	Lower Limb Prosthetic Design	4	20
BE 413	Orthotic Management of Spinal Deformity	4	20

BE 407	Orthotic Management of Neurological Conditions	4	20
BE 412	Clinical Governance	4	20
BE 415	Clinical Gait Analysis	4	20
<b>BE xxx</b>	Orthotic Management of the Diabetic Foot	4	20
BE 414	Paediatric Lower Limb Prosthetics	4	20

\*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**

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

<b>Compulsory Classes</b>			
94 500	Prosthetic and Orthotic Masters Project	5	60
<b>Optional Classes</b>			
94 509	Orthotic Management of Neurological Condition B	5	20
94 510	Orthotic Management of Diabetes Mellitus B	5	20
BE504	Hip, Knee and Ankle Disarticulation B	5	20
BE505	Clinical Governance B	5	20
BE506	Wheelchairs and Seating B	5	20
BE507	Orthotic Management of Spinal Deformity B	5	20
BE508	Clinical Gait Analysis	5	20
BE509	Upper Limb Prosthetics B	5	20
BE510	Lower Limb Prosthetic Design B	5	20
<b>BE511</b>	<b>Paediatric Lower Limb Prosthetics B</b>	<b>5</b>	<b>20</b>
<b>BExxx</b>	<b>Orthotic Management of the Diabetic Foot</b>	<b>5</b>	<b>20</b>

### **Progress**

12.48.7 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.

12.48.8 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**

12.48.9 The final classification for the award if 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 including oral examination

### **Award**

12.48.10 **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**

12.48.11 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.

**12.49 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 High Performance Marine Vehicles**

**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 BEng degrees in Naval Architecture and Marine Engineering, in Naval Architecture with Ocean Engineering or in Naval Architecture with High Performance Marine Vehicles 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 Elective Class(es)	1	20 20
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### **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
NM 312	Analysis and Design of Marine Structures 2	3	20
NM 313	Hydrodynamics, Resistance and Propulsion	3	20
NM 314	Marine Design	3	20
NM 316	Marine Engineering Systems and Control	3	20
21 370	Marine Business and Financial Management	3	10
NM 323	The Marine Environment	3	10

### Optional Classes

*Either*

NM 3xx	Professional Development	3	10
Or			
EF 300	STEM Engagement and Support	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*

##### Comopulsory Class

NM 325	Offshore Oil and Gas Production Systems	3	10
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#### Naval Architecture with High Performance Marine Vehicles

##### 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	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

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 High Performance Marine Vehicles

Compulsory Classes

NM 429	High Performance Marine Vehicles Project	4	40
NM 437	High Speed Ships	4	10
NM 438	High Performance Marine Structures	4	20
NM 439	High Performance Sailing Yachts	4	10

**Fifth Year**

12.49.7 All students shall undertake classes amounting to 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
NM 522	Renewable Marine Energy Systems	5	10
NM 524	On-board Energy Management and Environment Protection	5	10

together with classes appropriate to the chosen course:

*Naval Architecture and Marine Engineering*

No fewer than 20 credits chosen from:

21525	Advanced Marine Engineering	5	10
21526	Marine Engineering Simulation & Modelling	5	10
NM 523	Systems Availability and Maintenance	5	10

*Naval Architecture with Ocean Engineering*

No fewer than 20 credits chosen from:			
NM 512	Risers and Mooring Lines	5	10
NM 513	Design and Construction of FPSO's	5	10
NM 523	Systems Availability and Maintenance	5	10

### Naval Architecture with High Performance Marine Vehicles

No fewer than 20 credits chosen from:

21518	Computational Free Surface Hydrodynamics	5	10
NM 523	Systems Availability and Maintenance	5	10
NM 526	Dynamics of High Performance Marine Vehicles	5	10

Exceptionally, such other classes as may be approved by the Course Director.

### Progress

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

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

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

12.49.13 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 *NM526 Naval Architecture with High Performance Marine Vehicles Project* as appropriate.

### Final Assessment and Classification

12.49.14 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

12.49.15 **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 classes *NM 502 Group Design Project* and either *NM 428 Marine Engineering Project* or *NM 430 Ocean Engineering Project* or *NM526 Naval Architecture with High Performance Marine Vehicles Project* as appropriate.

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
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
L5 114	Understanding and Responding to Domestic Abuse	1	20
R1 107	French 1 (Beginners)	1	20
R4 107	Spanish 1 (Beginners)	1	20

R2 100	German 1 (Beginners)	1	20
R8 100	Portuguese 1 (Beginners)	1	20
R3 116	Italian 1 (Beginners)	1	20
R7 100	Polish 1 (Beginners)	1	20
EL 100	Proficiency English	1	20
EL 101	Intermediate English	1	20
EL 102	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
R1 113	French 2 (Lower Intermediate)	2	20
R4 112	Spanish 2 (Lower Intermediate)	2	20
R2101	German 2 (Lower Intermediate)	2	20
R8 101	Portuguese 2 (Lower Intermediate)	2	20
R3 117	Italian 2 (Lower Intermediate)	2	20
R7101	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		
R1 393	French 3 (Intermediate/Lower Intermediate)	3	20
R4 376	Spanish 3 (Intermediate/Lower Intermediate)	3	20
R2 361	German 3 (Intermediate/Lower Intermediate)	3	20
R8 300	Portuguese 3 (Intermediate/Lower Intermediate)	3	20
R3 396	Italian 3 (Intermediate/Lower Intermediate)	3	20
R7 300	Polish 3 (Intermediate/Lower Intermediate)	3	20
18 417	Chemical Engineering Project (* available to incoming exchange students only)	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 Education Quality and Policy Manager, Education Enhancement, University of Strathclyde, Glasgow G1 1XQ (Telephone 0141 548 4967, e-mail [regulations-amendments@strath.ac.uk](mailto:regulations-amendments@strath.ac.uk))

